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Calculations of transition and permanent dipole moments of heteronuclear alkali dimers NaK, NaRb and NaCs

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Obtaining ultracold samples of dipolar molecules is a current challenge which requires an accurate knowledge of their electronic properties to guide the ongoing experiments. In this paper, we calculate permanent dipole moments and transition dipole moments for excited states for alkali dimers NaK, NaRb and NaCs using a standard quantum chemistry approach based on pseudopotentials for atomic core representation, Gaussian basis sets, and effective terms for core polarization effects. We provide an extensive set of data concerning transitions among the first seven molecular states of each symmetry $^1\Sigma^+$, $^3\Sigma^+$, $^1\Pi$, $^3\Pi$. The accuracy of our results is generally improved compared to previous similar calculations on NaK, while they are found to be in good agreement with the few NaRb states calculated with other methods. Results for NaCs transition dipole moments are given here for the first time.

Keywords: alkali dimers, transition dipole moments, ultracold molecules, effective core polarization potential, NaK, NaRb, NaCs.

1 Introduction

Heteronuclear alkali dimers attract interest of both experimental and theoretical researchers working on cold molecules due to the promising prospects offered by their polar character, as can be read in recently published special issue on this topic [1, 2]. Fascinating properties are predicted for cold samples of such dipolar molecules (i.e. exhibiting a permanent dipole moment) due to their long-range dipole-dipole interaction and their ability to be manipulated by external electric fields (see for instance ref. [3]). Field-linked quasibound states of a new kind are predicted to influence collisions between polar molecules [4]. Polar molecules could provide the toolbox for lattice-spin models as a representation of states of matter with topological order [5]. The anisotropy of the dipole-dipole interaction could allow one to control it inside a degenerate gas by varying the geometry of the trap [6]. Among the possible applications are the design of a molecular optics set-up [7] or a quantum information device [8], or to test fundamental theories by the measurement of the electron electric dipole moment [9, 10] or of the time independance of the electron-to-proton mass ratio [11].

The formation process is obviously the key issue for these developments. An efficient approach which has dramatically improved these last years is the so-called Stark deceleration technique, relying on the slowing and trapping of molecules with a permanent electric dipole moment (usually labelled as dipolar molecules) using inhomogeneous external electric fields [12]. In addition, the "historical" approach based on photoassociation of ultracold atoms which first demonstrated the formation of ultracold molecules with cesium dimers [13], has recently progressed with the creation of ultracold samples of dipolar molecules composed of different alkali atoms like RbCs [14, 15], KRb [16, 17], NaCs [18, 19], and LiCs [20].

In a previous paper [21] we computed the rates for the photoassociation of mixed alkali pairs, and for the subsequent formation of cold molecules, which showed that all alkali pairs involving either Rb and

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Cs are well suited for that purpose, as the cold molecule formation rate was only about ten times smaller than for Cs₂ formation. This result was found in good agreement with the RbCs experiment of Kerman *et al.* [14]. Potential curves available in the literature, and constant (atomic) transition dipole moments were proved to be sufficient to establish these estimates. However, the practical implementation of cold molecule formation via photoassociation requires a much better knowledge of their electronic properties such as improved potential curves and radial variation of permanent or transition dipole moments, in order to better guide the experimentalists towards specific systems and transitions with maximal efficiency. It is also well-known that the computation of transition dipole moments is a sensitive test of the variation of the electronic wavefunctions with the interatomic distance, in contrast with the calculation of potential energy resulting from an expectation value of the hamiltonian operator for a given electronic wavefunction. Moreover, permanent dipole moments of excited states are worthwhile to study, as they could be checked against spectroscopic measurements performed in the presence of electric fields [22].

Within such perspectives, we started recently a new accurate investigation of electronic properties of all alkali pairs from Li to Fr, such as potential curves for ground and excited states, and permanent and transition dipole moments. We used a quantum chemistry approach involving two active electrons effective potentials for the representation of the atomic cores. We first investigated the variation with the interatomic distance and with the vibrational level of the permanent dipole moment of the ground state and the lowest triplet state of all mixed alkali pairs from Li to Cs [23] for which only scattered experimental or theoretical results were available at that time. We extended our calculations to the electronic properties of francium diatomic compounds Fr₂, RbFr and CsFr [24]. Potential curves, permanent and transition moments were determined for the first time for these systems and we investigated the possibility of creating cold Fr₂ and RbFr molecules.

In the present paper we extend this study to the sodium heteronuclear compounds NaK, NaRb, and NaCs. These molecules are indeed systems of choice for the creation of ultracold dipolar gases, due to their large permanent dipole moment $D_{v=0}$ in the lowest vibrational level of their ground state (≈ 2.7 D, 3.3 D, and 4.6 D respectively [23], with $1 \text{ a.u.} = 2.54158059$ Debye). Progress toward such a perspective have been achieved with the first observation of ultracold NaCs molecules [19, 25], followed by the more recent detection of ultracold LiCs molecules [20] (with $D_{v=0} \approx 5.5$ D [23]), and also the formation of heteronuclear molecules with a smaller dipole moment like KRb [16, 17], and RbCs [14, 15].

A large number of spectroscopic studies have been devoted to NaK and to a much smaller extent to NaRb and NaCs. An extensive list of references is available through the bibliographic database DiRef [26], and we quote here only a few papers among the most recent or the most significant. Spectroscopic constants and potential curves for low electronic states of NaK [27–29], NaRb [30, 31], and NaCs [32, 33] were obtained by Fourier transform (FT) spectroscopy or laser-induced fluorescence (LIF) recorded at high resolution by FT spectrometry, and by sub-Doppler high resolution spectroscopy or Doppler-free laser high resolution spectroscopy [34–37]. Optical-optical double resonance (OODR) spectroscopy gave access to higher electronic states of NaK [38–43] and NaRb [22, 44–48]. Permanent dipole moments of NaK were extracted from microwave optical double resonance (MODR) spectroscopy by Wormsbecher *et al.* [40] and from OODR spectroscopy by Laub *et al.* [38] and Burns *et al.* [43]. Tamanis *et al.* [50] used radiofrequency optical double resonance (rf-ODR) to measure radiative lifetimes of $D^1\Pi$ levels of NaK and extracted permanent and transition moments. Other methods like Stark level crossing and $e - f$ mixing spectroscopy [51], time-resolved Stark spectroscopy [52], or LIF spectroscopy [29], also allowed the measurement of permanent electric dipole moments in NaK. Of particular interest is the time-resolved LIF experiment of Klincare *et al.* in NaRb, focused on the determination of the radiative lifetime and of the quenching collision cross-section [47, 48].

These molecules have also been investigated in several quantum chemistry works that we will quote in the next section to compare them with our own computations. In the past systematic computations of permanent and transition dipole moment functions have been only reported for NaK [53–56], while scattered data are available for NaRb [50] and NaCs [57]. In the following we determine accurate values of permanent dipole and transition dipole moments for excited states of alkali dimers NaK, NaRb and NaCs. We will consider the lightest species NaK as a benchmark for our computations. In the next section, we briefly recall our approach, emphasizing the possible empirical corrections which are sometimes added

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2 Effective potential calculations and empirical contributions to the molecular energy

We used the same automated procedure that we developed in refs. [23, 24], based on the CIPSI package (Configuration Interaction by Perturbation of a multiconfiguration wavefunction Selected Iteratively) [58] developed by the "Laboratoire de Physique Quantique de Toulouse (France)". The approach is based on the ℓ -dependent pseudopotentials of Durand and Barthelat [59,60] for atomic core representation, Gaussian basis sets, and effective terms for core polarization (CPP) [61,62]. The CPP's involve empirical cut-off radii which are varied in order to reproduce the lowest atomic level of s , p , and d symmetries. We performed potential curve calculations via a full configuration interaction (CI), with extended Gaussian basis sets in order to check the convergence of the results with respect to the basis set size. Extensive details on the method can be found in [23, 24] and are not repeated here.

As a supplementary check of the consistency of our calculations, we calculated the electron affinities of the alkali atoms Li, Na, K, Rb, and Cs with both A and B basis sets defined in ref. [23]. The inclusion of additional diffuse orbitals in basis set B indeed seems to improve the results (see Table 1) at the level of the accuracy of a few tens of wavenumbers expected for such calculations.

Table 1. Electronic affinities (in cm^{-1}) of the alkali atoms as computed in the present work, and compared to experiment.

Atom	Basis A	Basis B	Expt.[ref]
Li	4924	5054	4984 [63]
Na	4386	4420	4419 [63]
K	3995	4004	4043 [64]
Rb	3836	3866	3920 [63]
Cs	3684	3736	3920 [63]

Potential energy curves of ground and excited states of sodium alkali compounds have been determined previously, using the same CIPSI package as in the present study, by Jeung *et al.* [65] and by Magnier *et al.* [55,56] for NaK, and by Korek *et al.* [66,67] for NaRb and NaCs. Other *ab initio* and pseudopotential approaches have been also used by Janoschek and Lee for NaK [68] and Stevens *et al.* [53]. It is worthwhile to mention that the comparison with other works is not always easy, as basis sets or effective potential parameters are sometimes not fully reported (see for instance our discussion in ref. [69]). Moreover in effective potential methods, empirical terms are sometimes added *a posteriori* to the potential energy like those proposed in ref. [70] to account for the deviation of the core-core interaction from the $1/R$ asymptotic behavior. This is the case for computations involving a large core potential, i.e. where only valence electrons are treated explicitly. A dispersive term $V_{cc}^{disp}(R)$ is usually expressed with the London formula:

$$V_{cc}^{disp}(R) = -\frac{3\alpha_d^{Na^+}\alpha_d^{Y^+}}{2R^6}\frac{E_I^{Na^+}E_I^{Y^+}}{E_I^{Na^+}+E_I^{Y^+}} \tag{1}$$

where $E_I^{Na^+}$ and $E_I^{Y^+}$ are the ionisation energies of the Na^+ and Y^+ ($Y=K, Rb, Cs$) ions respectively. A short-range term accounting for the repulsion between the two ionic cores is represented in ref. [70] with an exponential term like $V_{cc}^{rep}(R) = a_1R^{a_2}\exp -a_3R$, parameters of which are for instance adjusted on the value yielded by a Hartree-Fock calculation of the energy of the doubly-charged ion, assuming that both ionic cores are frozen. The arbitrariness of the implementation of such terms may lead to accidental agreement (or disagreement) when comparing to available experimental potential curves. Indeed, the $V_{cc}^{disp}(R)$ term has to be cut off at an arbitrary small distance R . The calculation of the $V_{cc}^{rep}(R)$ term is actually very sensitive to the way core polarization effects are treated in the quantum chemistry approach [71]. Then these two contributions are not independent from each other so that it is hopeless to

An even more empirical way to evaluate these terms relies on the difference between the computed ground state potential $U_X^{qc}(R)$ of a given molecule with its supposedly well-known experimental determination $U_X^{exp}(R)$, for instance through an analysis of molecular spectra. The so-called "difference-based" potential curve $U_Y^{diff}(R)$ for an excited state Y is then defined as $U_Y^{diff}(R) = U_Y^{qc}(R) + (U_X^{qc}(R) - U_X^{exp}(R))$. Such a model is valid if we assume that the difference on the X state potential can be transferred to excited states, i.e. that the missing part of the short-range interaction is independent of the excited state Y of the molecule. This trick has been recently used by molecular spectroscopy groups [32, 37] in order to define a good quality initial potential curve for electronically excited states to start the fitting procedure of their large set of spectroscopic lines. For instance, the main spectroscopic constants of the NaRb molecule such as transition energy, well depth, and harmonic and rotational constants are indeed improved using this empirical procedure [37]. We illustrate this procedure with the ground state of the NaRb and NaCs molecules (Fig.1). As expected from our previous works, the convergence of the potential energy with the size of the basis is fulfilled. The depth of the X potential is deeper by 59 cm^{-1} and 34 cm^{-1} with basis B rather than with basis A, for NaRb and NaCs respectively. Comparatively, the depth of the a potential well is converged at a few % level as well, i.e. it is 2 cm^{-1} in NaRb and 9 cm^{-1} deeper in NaCs with basis B than with basis A. The difference between the experimentally determined ground state potential curves [30–32] and the computed ones almost vanishes around the equilibrium distance R_e , and keeps a magnitude within a few tens of wavenumbers for $R > R_e$ over the range of the exchange interaction (say for $R < 20 a_0$), representative of the typical accuracy of quantum chemistry calculations for such systems. For distances smaller than R_e , our computed curve has a smaller potential energy, and is somewhat deeper than the experimental one. Therefore the theoretical equilibrium distance R_e and the vibrational constant ω_e are slightly smaller than the experimental ones (Fig.1), which confirms that our calculations - without including any empirical contribution - underestimate the repulsive interaction between the ionic cores. In such circumstances, it is not meaningful to discuss in detail the standard spectroscopic constants, as the computed values will generally be in agreement with the experimental ones within the above limits, with occasional coincidences. Such a trend is also obtained in other published calculations, as for instance in Rb_2 [72] or RbCs [70, 73], but as already noticed, the comparison is not easy as the details of the included empirical terms are not always available. The difference $U_X^{qc}(R) - U_X^{exp}(R)$ actually shows an exponentially decreasing behaviour with increasing R (Fig.1c,d), in accordance with the empirical terms discussed above.

We compared the difference-based potentials constructed from our calculations to the few experimentally-determined excited potential curves for NaRb ($(2)^1\Pi$ [32], $(3)^1\Sigma^+$ [74], $(6)^1\Sigma^+$ [45]), and NaCs ($(3)^1\Pi$) [33] reported in the literature. We display an illustration for the last case (Fig.2). It is not easy to draw a general conclusion from such tests. As expected, the position of the repulsive wall of the excited potential is greatly improved (see the dashed curve in Fig.2), as we already knew that our calculations without empirical terms underestimate the core-core repulsion. In the region of the equilibrium distance, the difference between the computed and experimental potential energy curves has a similar magnitude as the one for the X state, so that the improvement yielded by the difference-based potential is not clear. In particular, the variation of $(U_Y^{diff}(R) - U_Y^{exp}(R))$ is less smooth than the one of $(U_Y^{qc}(R) - U_Y^{exp}(R))$, which simply shows that this approximation is not valid, as the curve reflects the different nature of the electronic wavefunctions of the X and the $(3)^1\Pi$ states.

An exhaustive comparison of our results with the wealth of other theoretical data is tedious to describe in detail within the body of the present paper. For the interested reader, the corresponding numerical data is attached to this paper as supplementary material, for further reference. In these tables, we have not included any of the empirical contributions above, in order to allow unambiguous comparison with other works.

Figure 1. Potential curves for the ground state $X^1\Sigma^+$ and $a^3\Sigma^+$ of the NaRb (panel a) and NaCs (panel b) molecules. Full lines and dot-dashed lines: our calculations with basis A and B respectively, for both atoms. Dashed lines: experimental curve from ref. [30, 31] and [32]. In panel c and d, we show the difference of the experimental ground state potential with the computed ones $U_X^{exp}(R) - U_X^{qc}(R)$ on a logarithmic scale, for basis A (full line) and basis B (dashed line) respectively. The exponential variation of this quantity is clear almost up to the equilibrium distance.

Figure 2. Radial variation of $(U_Y^{qc}(R) - U_Y^{exp}(R))$ (full line) and $(U_Y^{diff}(R) - U_Y^{exp}(R))$ (dashed line), for the $Y \equiv (3)^1\Pi$ state of NaCs, experimentally determined in ref. [33].

3 Results for permanent dipole moments of excited states

In contrast with potential curves, systematic computations of permanent or transition dipole moments as functions of the internuclear distance are not often performed, and only a few data are actually available for alkali dimers. In this respect, the NaK molecule represents a favorable case, as several works using similar ECP approaches by Magnier *et al.* [55,56], Stevens *et al.* [53] and Ratcliff *et al.* [54] yield extended tables of transition dipole moments. Using the multipartitioning perturbation theory (MPPT) Tamanis *et al.* [50,75] have calculated transition and permanent dipole moments of the lowest electronic states of NaK. The MPPT theory has also been used by Nikolayeva *et al.* [22] to calculate permanent dipole moments of several NaRb states and by Zaitsevskii *et al.* and by Klincare *et al.* [46,48] to calculate transition moments of NaRb. To our knowledge, only one computation of these quantities for NaCs has been published up to now [57].

It is worthwhile to mention that the empirical energy corrections discussed above have no influence on the electronic wavefunctions, so that only the vibrational wavefunctions and then the spectroscopic constants may be affected by them. We carried out our calculations of permanent and transition dipole moments using the extended basis 'B' of uncontracted Gaussian functions introduced in [23]. For the three molecules, we computed all possible dipole moment functions between $4a_0$ and $30a_0$ ($a_0=0.0529177$ nm) involving the first seven states of $^1\Sigma^+$, $^3\Sigma^+$, $^1\Pi$, $^3\Pi$ symmetries (see the supplementary material attached to this paper). The grid step ($0.2a_0$) is significantly smaller than in other papers, which ensures that the abrupt variations of the dipole moment functions due to sudden changes of the electronic wavefunctions are properly described.

In the following we illustrate this huge amount of data with a selection of figures concerning molecular states relevant for experimental studies. Fig.3 reveals the similarities and differences between the three molecules through the permanent dipole moment of their four lowest singlet excited states and the lowest $^3\Pi$ state, as an extension of the discussion on the ground state permanent dipole moments of ref. [23]. Let us recall that the $(2)^1\Sigma^+$, $(3)^1\Sigma^+$, $(1)^1\Pi$, $(2)^1\Pi$, and $(1)^3\Pi$, are usually referred to as A, C, B, D,

and b states in molecular spectroscopy, as reported in Fig.3. We chose the following sign convention as in ref. [24]: a negative value indicates the charge asymmetry NaK^- , Na^+Rb^- and Na^+Cs^- . It is clear that the positions of the irregularities in the R -dependence of permanent dipole are correlated to the avoided crossings between potential curves, which are both manifestations of abrupt changes of the character of the electronic wavefunctions.

Let us note Magnier *et al.* [55,56] employed the contracted Gaussian basis sets labelled as 'A' in ref. [23] for their study on NaK. They provided permanent and transition dipole moment functions concerning the lowest $8\ ^1\Sigma^+$, $8\ ^1\Sigma^+$ states and $6\ ^1\Sigma^+$ symmetries. Previously Ratcliff *et al.* [54] reported data for transitions between the lowest $5\ ^1\Sigma^+$, $3\ ^1\Sigma^+$ states and $3\ ^1\Sigma^+$ states, using a rather small basis set. As a general statement, we checked that the results are converged with respect to the size of the basis, as transition dipole moments obtained with basis 'A' or 'B' always differ by less than 1%. This confirms the trend we previously observed for permanent dipole moment functions [23], and then confirms the good quality of the computed electronic wavefunctions. This is illustrated with Fig. 4 which displays our results compared to permanent dipole moments which are available in the literature for the excited states. It concerns electronic states correlated to the two lowest excited asymptotes where one atom is in the ground state and the other in the lowest p level: the $A(2)^1\Sigma^+$, $C(3)^1\Sigma^+$, $B(1)^1\Pi$, $D(2)^1\Pi$, $(2)^3\Sigma^+$, $(3)^3\Sigma^+$, $b(1)^3\Pi$, $d(3)^3\Pi$. We used here the numbering with increasing energy, together with the standard spectroscopic notations with letters. It is clear that our results and those of ref. [56] (with the opposite sign convention) for NaK are identical. The agreement is also very good with the MPPT studies of ref. [22,50,57], as already observed by the same group on a couple of transition dipole moments [48]. This actually represents an important statement, as the methods are really different. It probes directly on the electronic wavefunctions that effective core polarization potentials accurately describe core excitations. The agreement for NaK with results of ref. [53] is also satisfactory, however with several differences for the B, C, D and $(3)^3\Sigma^+$ states. First the size of the grid step is crucial to properly describe the abrupt variations of the C and $(3)^3\Sigma^+$ dipole moments. The other differences are probably due to the different nature of the basis functions in [53] (Slater-type orbitals) and the smaller size of the basis set.

4 Results for transition dipole moments

4.1 NaK

As already quoted, the NaK molecule has been the only one of the present group to be extensively studied in previous works using the ECP approach [54–56]. As expected, the present numerical values are in good agreement with those of Magnier *et al.* [56]. However, we note that the results in the supplementary tables of ref. [56] are reported in absolute values, so that all changes of sign are converted into angular points in the corresponding curves. This may have important consequences for the strength of some electronic transitions. In this respect, we recommend to use the tables attached to the present paper, which can be considered as an update of those of ref. [56].

Figure 5 displays results for transitions involving singlet and triplet states which are - or could be- relevant for molecular spectroscopy or for detection schemes of ultracold NaK molecules. The agreement with the extensive data set of Ratcliff *et al.* [54] is generally satisfactory, as the global variation of the functions are similarly reproduced by both approaches. First we see the interest of computing such functions on a thin grid in R , as their abrupt variations and changes of sign are well described and properly identified. A few discrepancies occur when highly-excited states are concerned, visible at short distances for the $X - E$, $A - D$, $D - G$ singlet transitions, and for the $a - g$ triplet transitions. Note that we use here the letter symbols to label the molecular states, which are explained in the caption of Figure 5. Also, the extrema of the $A - C$ and $C - E$ transition functions are more smoothly described in our results than in those of ref. [54]. Changes of sign like those in the $X - G$ and $A - C$ transitions correspond to sudden changes of the electronic wavefunctions, most often linked to avoided crossings in potential curves. This is also the case when the transition function drops down to zero at quite large distance, like for the $A - E$ transition beyond $15a_0$.

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Figure 3. Computed potential curves and permanent dipole moments (in basis B) for the lowest singlet excited states of NaK ((a), (b)), NaRb ((c), (d)), NaCs ((e), (f)). $A^1\Sigma^+$ and $C^1\Sigma^+$ curves are drawn with full lines, and $B^1\Pi$ and $D^1\Pi$ curves with dashed lines. The lowest $b^3\Pi$ curves are also displayed (dot-dashed line), due to the well-known spin-orbit interaction with the A state. The upper $1^1\Sigma^+$ and $1^1\Pi$ potential curves (thin full and dashed lines respectively in panels a, c, e) are drawn in order to visualize possible avoided crossings with the lower curves.

Figure 4. Present computed (with basis B) permanent dipole moments (full lines) compared to other theoretical values, for the NaK (panels a, b, c, d), NaRb (panel e), and NaCs (panel f). Full circles: ref. [53]; Stars: ref. [75] for NaK, and ref. [22] for NaRb; Triangles: ref. [57].

Figure 5. Comparison of the present computed (with basis B) NaK transition dipole moments (in full lines and closed circles) with the values of ref. [54] (dashed lines and open circles), for a selected set of singlet and triplet transitions labelled with letters according to standard spectroscopic notation: X $\equiv$ (1) $^1\Sigma^+$; A $\equiv$ (2) $^1\Sigma^+$; C $\equiv$ (3) $^1\Sigma^+$; E $\equiv$ (4) $^1\Sigma^+$; B $\equiv$ (1) $^1\Pi$; D $\equiv$ (2) $^1\Pi$; G $\equiv$ (3) $^1\Pi$; a $\equiv$ (1) $^3\Pi$; b $\equiv$ (1) $^3\Pi$; c $\equiv$ (2) $^3\Pi$; d $\equiv$ (2) $^3\Pi$; e $\equiv$ (3) $^3\Pi$; g $\equiv$ (3) $^3\Pi$. The $\Sigma^+ - \Pi$ transition dipole moments of ref. [54] have been divided by $\sqrt{2}$. By convention we chose transition dipole moments positive at large distances so that we changed the sign of a few moments of ref. [54].

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Figure 6. Comparison of the present computed (with basis B) NaRb transition dipole moments (in full lines and dashed lines) with those calculated for several singlet transitions in ref. [46,48] (closed and open circles respectively). Molecular states are labelled with letters according to standard spectroscopic notations: X $\equiv$ (1) $^1\Sigma^+$; A $\equiv$ (2) $^1\Sigma^+$; C $\equiv$ (3) $^1\Sigma^+$; E $\equiv$ (4) $^1\Sigma^+$; B $\equiv$ (1) $^1\Pi$; D $\equiv$ (2) $^1\Pi$; G $\equiv$ (3) $^1\Pi$. By convention we chose transition dipole moments positive at large distances.

4.2 NaRb and NaCs

As already mentioned, the comparison of our data is limited to a couple of theoretical papers from the groups in Riga and Moscow [46,48], who used an entire different method (MPPT). They reported results for singlet transitions on a rather restricted R -range relevant for their related spectroscopy investigations. The agreement is excellent with our data (Fig.6). This suggests that both the Riga-Moscow approach and our approach have converge to accurate results. The dipole functions for the triplet transitions in NaRb are provided here for the first time (see the supplementary tables accompanying the present paper). Again, the abrupt variation of the X – C and A – C functions arise from the avoided crossing in the C state, related to strong interaction of the covalent state with the ion-pair state around $20a_0$. The associated energy range was not explored in the spectroscopic investigations of Refs. [46,48].

Finally, no published data are available on permanent or transition moments in NaCs to our knowledge, although the Riga-Moscow-Hannover groups are pursuing the spectroscopic investigations on this molecule [49]. We display in Fig.7 a selection of results corresponding to the same transitions as those reported in Fig.6. As in the case above, the avoided crossings of the potential curves also correspond to abrupt variations of the dipole moment functions. However the variations for NaCs are smoother than for NaRb, as the avoided crossings are larger, or in other words, "more avoided" than in NaRb.

Figure 7. NaCs transition dipole moments (in full lines and dashed lines) computed (with basis B) in the present work. Molecular states are labelled with letters according to standard spectroscopic notations: $X \equiv (1)^1\Sigma^+$; $A \equiv (2)^1\Sigma^+$; $C \equiv (3)^1\Sigma^+$; $E \equiv (4)^1\Sigma^+$; $B \equiv (1)^1\Pi$; $D \equiv (2)^1\Pi$; $G \equiv (3)^1\Pi$. By convention we chose transition dipole moments positive at large distances.

5 Conclusion

With this paper, we provided careful calculations of the electronic structure of heteronuclear alkali diatomics involving sodium atoms, accompanied with extensive supplementary material for potential energy curves, as well as permanent and transition dipole moment functions. Our goal was to deliver a set of data as complete as possible concerning molecular systems which are among the preferred prototypes for pioneering experiments and theoretical investigations with dipolar molecules. This work represents an update for data previously published by various groups on the NaK species, emphasizing the evaluation of their accuracy with respect to the size of the basis sets, and the comparison with other methods. Only a few calculations using a different method have been previously reported for NaRb dipole moment functions related to singlet transitions, with which our results are in good agreement. The present work therefore extends the knowledge of the NaRb structure to higher excited states. Our results concerning NaCs are entirely new, and will certainly be helpful for the preparation of ultracold samples of this strongly dipolar species [25]. The inclusion of the molecular spin-orbit interaction for these systems are in progress in our group.

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The following tables display the potential energy curves of **NaK** for the eight lowest $^1\Sigma$ states, the eight lowest $^1\Pi$ states, and the four lowest $^1\Delta$ states, (Tables 1 to 3) and the seven lowest $^3\Sigma$ states, the eight lowest $^3\Pi$ states, and the four lowest $^3\Delta$ states (Tables 4 to 6). Distances (first column) and energies are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 219474.63137 cm⁻¹. The curves are computed using the large basis set for both atoms, as described in the accompanying paper. The origin of energies is defined at the ionisation limit for both atoms.

Table 1: (1-8)¹Σ⁺

3.000	-0.2799738388	-0.2004763590	-0.1741000434	-0.1520266635	-0.1378262133	-0.1305467723	-0.1225726893	-0.1211343346
3.200	-0.2883207589	-0.2087912718	-0.1829441195	-0.1613325370	-0.1470314125	-0.1399415765	-0.1326952977	-0.1306513431
3.400	-0.2971297263	-0.2176551510	-0.1920735035	-0.1711339249	-0.1567942569	-0.1499003237	-0.1431341500	-0.1406363532
3.800	-0.3149055553	-0.2359498219	-0.2101775602	-0.1910445535	-0.1768216770	-0.1700217000	-0.1637527781	-0.1609155280
4.000	-0.3234273942	-0.2450019249	-0.2189001615	-0.2007244559	-0.1866344374	-0.1796862389	-0.1736161026	-0.1707969888
4.200	-0.3314631428	-0.2537756705	-0.2272833531	-0.2099755822	-0.1960516206	-0.1888955631	-0.1830070968	-0.1802680101
4.400	-0.3388721586	-0.2621311235	-0.2352457180	-0.2186443805	-0.2049179342	-0.1975636899	-0.1918117228	-0.1891793760
4.600	-0.3455516346	-0.2699515691	-0.2427120976	-0.2266144728	-0.2131222733	-0.2056248796	-0.1999473527	-0.1974153044
4.800	-0.3514378445	-0.2771496147	-0.2496176410	-0.2338134309	-0.2205980648	-0.2130290359	-0.2073643818	-0.2048980785
5.200	-0.3607571262	-0.2894880483	-0.2615727325	-0.2458071681	-0.2332774038	-0.2257565288	-0.2199672289	-0.2171373684
5.400	-0.3642293176	-0.2946067595	-0.2665913423	-0.2506317428	-0.2385069364	-0.2310789392	-0.2251666893	-0.2225810859
5.600	-0.3669730688	-0.2990504033	-0.2709867475	-0.2547286543	-0.2430486296	-0.2357405829	-0.2296696484	-0.2269518216
5.800	-0.3690527864	-0.3028585711	-0.2747921692	-0.2581534078	-0.2469594989	-0.2397844370	-0.2335214489	-0.2306416015
6.000	-0.3705388397	-0.3060800718	-0.2780510722	-0.2609670385	-0.2503043215	-0.2432597588	-0.2367754199	-0.2337122860
6.200	-0.3715029121	-0.3087681406	-0.2808123394	-0.2632324089	-0.2531514290	-0.2462164751	-0.2394892718	-0.2362301011
6.400	-0.3720148951	-0.3109770081	-0.2831266746	-0.2650118589	-0.2555691872	-0.2487013939	-0.2417219327	-0.2382619819
6.600	-0.3721409841	-0.3127596664	-0.2850441001	-0.2663658948	-0.2576226674	-0.2507565046	-0.2435314113	-0.2398746075
6.800	-0.3719426361	-0.3141664603	-0.2866123185	-0.2673527484	-0.2593701998	-0.2524193770	-0.2449733366	-0.2411372447
7.000	-0.3714760630	-0.3152442592	-0.2878756408	-0.2680286696	-0.2608590154	-0.2537249347	-0.2460995922	-0.2421119046
7.200	-0.3707920789	-0.3160360609	-0.2888743723	-0.2684492495	-0.2621217161	-0.2547077470	-0.2469575968	-0.2428471473
7.400	-0.3699361437	-0.3165805230	-0.2896444571	-0.2686720156	-0.2631731037	-0.2554032418	-0.2475895180	-0.2433704041
7.600	-0.3689485508	-0.3169124774	-0.2902173621	-0.2687606931	-0.2640079621	-0.2558475573	-0.2480321324	-0.2436972263
7.800	-0.3678647180	-0.3170624805	-0.2906201305	-0.2687891462	-0.2646002421	-0.2560762666	-0.2483167962	-0.2438432726
8.000	-0.3667155214	-0.3170572775	-0.2908755939	-0.2688354253	-0.2649124488	-0.2561229913	-0.2484698952	-0.2438287071
8.200	-0.3655276893	-0.3169199786	-0.2910027307	-0.2689526292	-0.2649276087	-0.2560184352	-0.2485135834	-0.2436773775
8.400	-0.3643241687	-0.3166703760	-0.2910171378	-0.2691402560	-0.2646797265	-0.2557899137	-0.2484662633	-0.2434140625
8.600	-0.3631244738	-0.3163252311	-0.2909315690	-0.2693621272	-0.2642369500	-0.2554613355	-0.2483432936	-0.2430636424
8.800	-0.3619450066	-0.3158986224	-0.2907565325	-0.2695833344	-0.2636650343	-0.2550534218	-0.2481574753	-0.2426503765
9.000	-0.3607993141	-0.3154022790	-0.2905008496	-0.2697842852	-0.2630132549	-0.2545840106	-0.2479194172	-0.2421976212
9.200	-0.3596983294	-0.3148459225	-0.2901721860	-0.2699582904	-0.2623165466	-0.2540684443	-0.2476379272	-0.2417277284
9.400	-0.3586505712	-0.3142376206	-0.2897774816	-0.2701063992	-0.2616001894	-0.2535199531	-0.2473204138	-0.2412618811
9.600	-0.3576623490	-0.3135841231	-0.2893232816	-0.2702336287	-0.2608830687	-0.2529500547	-0.2469733245	-0.2408192178
9.800	-0.3567379566	-0.3128911858	-0.2888159712	-0.2703465842	-0.2601795364	-0.2523689853	-0.2466027185	-0.2404160301
10.000	-0.3558798864	-0.3121638492	-0.2882619033	-0.2704520340	-0.2595004142	-0.2517861004	-0.2462147763	-0.2400637741
10.200	-0.3550890294	-0.3114066833	-0.2876674400	-0.2705560400	-0.2588535682	-0.2512102257	-0.2458163405	-0.2397671126
10.400	-0.3543649177	-0.3106239735	-0.2870389638	-0.2706634448	-0.2582443273	-0.2506499384	-0.2454153365	-0.2395223688
10.600	-0.3537059393	-0.3098198434	-0.2863828254	-0.2707776227	-0.2576758407	-0.2501136671	-0.2450209895	-0.2393174583
10.800	-0.3531095737	-0.3089983494	-0.2857052865	-0.2709004394	-0.2571494549	-0.2496096074	-0.2446436233	-0.2391335162
11.000	-0.3525726078	-0.3081635029	-0.2850124488	-0.2710323046	-0.2566651090	-0.2491454189	-0.2442940231	-0.2389488380
11.200	-0.3520913359	-0.3073192928	-0.2843101952	-0.2711723613	-0.2562216842	-0.2487276180	-0.2439820866	-0.2387424824
11.400	-0.3516617450	-0.3064696539	-0.2836041355	-0.2713187366	-0.2558173680	-0.2483608725	-0.2437153525	-0.2384985695
11.600	-0.3512796725	-0.3056184562	-0.2828995525	-0.2714687593	-0.2554498832	-0.2480472064	-0.2434977799	-0.2382080748
11.800	-0.3509409335	-0.3047694662	-0.2822201359	-0.2716192450	-0.2551167023	-0.2477854726	-0.2433296912	-0.2378694396
12.000	-0.3506414245	-0.3039263251	-0.2815140727	-0.2717667146	-0.2548152049	-0.2475712978	-0.2432087545	-0.2374870961
12.200	-0.3503772061	-0.3030925169	-0.2808417847	-0.2719075846	-0.2545427498	-0.2473975139	-0.2431312867	-0.2370688392
12.400	-0.3501445546	-0.3022713612	-0.2801881398	-0.2720383329	-0.2542967616	-0.2472551584	-0.2430932791	-0.2366242834
12.600	-0.3499400041	-0.3014659883	-0.2795562895	-0.2721556225	-0.2540747762	-0.2471344861	-0.2430907527	-0.2361631973
12.800	-0.3497603580	-0.3006793273	-0.2789488777	-0.2722563968	-0.2538744503	-0.2470259548	-0.2431197863	-0.2356949442
13.000	-0.3496027075	-0.2999140977	-0.2783680056	-0.2723379638	-0.2536936120	-0.2469209107	-0.2431764590	-0.2352282532
13.200	-0.3494644226	-0.2991727981	-0.2778151878	-0.2723980459	-0.2535302432	-0.2468119692	-0.2432567972	-0.2347711037
13.400	-0.3493431374	-0.2984576840	-0.2772913296	-0.2724348524	-0.2533825116	-0.2466932238	-0.2433568225	-0.2343307816
13.600	-0.3492367487	-0.2977707684	-0.2767966829	-0.2724471236	-0.2532487609	-0.2465602985	-0.2434751639	-0.2339138672
13.800	-0.3491433901	-0.2971137903	-0.2763308420	-0.2724341597	-0.2531275028	-0.2464103489	-0.2436000003	-0.2335260961
14.000	-0.3490614117	-0.2964882005	-0.2758927835	-0.2723958251	-0.2530174149	-0.2462421528	-0.2437348903	-0.2331722662
14.200	-0.3489893639	-0.2958951433	-0.2754809347	-0.2723324960	-0.2529173287	-0.2460565052	-0.2438723440	-0.2328563773
14.400	-0.3489259772	-0.2953354394	-0.2750933750	-0.2722449243	-0.2528265210	-0.2458569620	-0.2440057186	-0.2325807645
14.600	-0.3488701413	-0.2948095750	-0.2747280956	-0.2721340059	-0.2527431539	-0.2456522971	-0.2441242902	-0.2323468764
14.800	-0.3488208841	-0.2943176914	-0.2743833734	-0.2720004588	-0.2526673527	-0.2454615242	-0.2442078597	-0.2321544053
15.000	-0.3487773672	-0.2938595875	-0.2740581744	-0.2718444671	-0.2525981060	-0.2453209094	-0.2442197073	-0.2320016724
15.200	-0.3487348546	-0.2934374450	-0.2737524539	-0.2716665891	-0.2525347836	-0.2452712582	-0.2441191362	-0.231857942
15.400	-0.3487047118	-0.2930423338	-0.2734672771	-0.2714616798	-0.2524768323	-0.2453129423	-0.2439063109	-0.2318029482
15.600	-0.3486743870	-0.2926812525	-0.2732045252	-0.2712312010	-0.2524237632	-0.2454114213	-0.2436167849	-0.2317491072
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Table 2: (1-8)¹Π

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3.000	-0.1884337956	-0.1774619484	-0.1399813496	-0.1347982592	-0.1302532385	-0.1186302743	-0.1158891234	-0.1123065902
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8.600	-0.2937527944	-0.2797406848	-0.2555352372	-0.2509295949	-0.2448814661	-0.2376315312	-0.2355101987	-0.2311538167
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10.000	-0.2921386248	-0.2761431638	-0.2545785832	-0.2471599027	-0.2407837180	-0.2334774027	-0.2313478016	-0.2266311222
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10.400	-0.2917569339	-0.2751923338	-0.2541575974	-0.2459758303	-0.2394818457	-0.2321518974	-0.2298849190	-0.2251973894
10.600	-0.2915821562	-0.2747654735	-0.2539444019	-0.2453846651	-0.2388324734	-0.2315015283	-0.2291375132	-0.2245090001
10.800	-0.2914177305	-0.2743739465	-0.2537336084	-0.2447970632	-0.2381876580	-0.2308651417	-0.2283875304	-0.2238423593
11.000	-0.2912632930	-0.2740182643	-0.2535277919	-0.2442154919	-0.2375494077	-0.2302460393	-0.2276408376	-0.223045626
11.200	-0.2911184189	-0.2736978859	-0.2533290522	-0.2436427338	-0.2369192422	-0.2296468191	-0.2269028971	-0.2226025047
11.400	-0.2909826634	-0.2734114289	-0.2531390166	-0.2430818745	-0.2362981951	-0.2290695242	-0.2261786925	-0.2220440820
11.600	-0.2908555658	-0.2731569355	-0.2529588464	-0.2425362159	-0.2356868554	-0.2285157351	-0.2254725839	-0.2215357641
11.800	-0.2907366647	-0.2729320590	-0.2527892765	-0.2420091390	-0.2350854415	-0.2279866839	-0.2247885526	-0.2210816349
12.000	-0.2906254951	-0.2727342348	-0.2526306582	-0.2415039119	-0.2344938908	-0.2274833085	-0.2241297861	-0.2206899988
12.200	-0.2905216070	-0.2725608390	-0.2524830186	-0.2410234947	-0.2339120127	-0.2270062932	-0.2234990288	-0.2204064173
12.400	-0.2904245538	-0.2724092807	-0.2523461190	-0.2405703747	-0.2333396393	-0.2265560649	-0.2228986913	-0.2202298528
12.600	-0.2903339144	-0.2722770792	-0.2522195291	-0.2401464087	-0.2327767672	-0.2261327462	-0.2223310372	-0.2201000362
12.800	-0.2902492772	-0.2721619139	-0.2521026710	-0.2397527566	-0.2322237285	-0.2257361482	-0.2217989135	-0.2199958903
13.000	-0.2901702538	-0.2720616667	-0.2519948834	-0.2393898418	-0.2316811982	-0.2253656892	-0.2213062216	-0.2199065805
13.200	-0.2900964762	-0.2719744097	-0.2518954536	-0.2390573969	-0.2311502578	-0.2250204141	-0.2208601380	-0.2198206473
13.400	-0.2900276018	-0.2718984247	-0.2518036619	-0.2387545564	-0.2306323795	-0.2246990215	-0.2204758211	-0.2197197342
13.600	-0.2899633008	-0.2718321920	-0.2517188007	-0.2384799719	-0.2301293442	-0.2243999236	-0.2201825635	-0.2195718698
13.800	-0.2899032709	-0.2717743875	-0.2516401970	-0.2382319448	-0.2296431505	-0.2241213449	-0.2199998923	-0.2193548698
14.000	-0.2898472280	-0.2717238471	-0.2515672210	-0.2380085506	-0.2291759055	-0.2238614311	-0.2198938241	-0.2190996059
14.200	-0.2897949099	-0.2716795614	-0.2514992964	-0.2378077583	-0.2287297131	-0.2236183774	-0.2198210367	-0.2188455868
14.400	-0.2897460729	-0.2716406599	-0.2514359037	-0.2376275118	-0.2283065416	-0.2233905401	-0.2197597767	-0.2186100773
14.600	-0.2897004826	-0.2716064056	-0.2513765778	-0.2374658100	-0.2279081288	-0.2231765439	-0.2197003844	-0.2183978322
14.800	-0.2896579252	-0.2715761529	-0.2513209078	-0.2373207411	-0.2275358491	-0.2229753486	-0.2196379125	-0.2182088392
15.000	-0.2896182031	-0.2715493617	-0.2512685336	-0.2371905299	-0.2271906514	-0.2227862933	-0.2195694059	-0.2180413496
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15.600	-0.2895142476	-0.2714853729	-0.2511282438	-0.2368734041	-0.2263193176	-0.2222902457	-0.2193118782	-0.2176447259
15.800	-0.2894841224	-0.2714683648	-0.2510863038	-0.2367877309	-0.2260816730	-0.2221489901	-0.2192066150	-0.2175404250
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Table 3: (1-4)¹Δ

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6	3.000 -0.1749474437 -0.1296050565 -0.1211436535 -0.1132829031
7	3.200 -0.1836639487 -0.1389201858 -0.1307701885 -0.1224014734
8	3.400 -0.1925902325 -0.1487730016 -0.1407172238 -0.1323583898
9	3.800 -0.2096017770 -0.1685718183 -0.1606577642 -0.1523644417
10	4.000 -0.2173529267 -0.1780356811 -0.1703552809 -0.1620166185
11	4.200 -0.2245151675 -0.1869902664 -0.1796819732 -0.1712355647
12	4.400 -0.2310727497 -0.1953206528 -0.1885037498 -0.1798917291
13	4.600 -0.2370249483 -0.2029454852 -0.1967075769 -0.1878811019
14	4.800 -0.2423767725 -0.2098164681 -0.2042107323 -0.1951322969
15	5.200 -0.2513129498 -0.2212531544 -0.2169509722 -0.2073034658
16	5.400 -0.2549244972 -0.2258572603 -0.2221823854 -0.2122387474
17	5.600 -0.2579937587 -0.2297726259 -0.2266911623 -0.2164542284
18	5.800 -0.2605509936 -0.2330523794 -0.2305247590 -0.2200023557
19	6.000 -0.2626321089 -0.2357538980 -0.2337388830 -0.2229418164
20	6.200 -0.2642767919 -0.2379356169 -0.2363924205 -0.2253331329
21	6.400 -0.2655266297 -0.2396554019 -0.2385434903 -0.2272357884
22	6.600 -0.2664235494 -0.2409713019 -0.2402452208 -0.2287065133
23	6.800 -0.2670085822 -0.2419519329 -0.2415333100 -0.2297983637
24	7.000 -0.2673210174 -0.2427230757 -0.2423783355 -0.2305603294
25	7.200 -0.2673978133 -0.2433551287 -0.2427978461 -0.2310374579
26	7.400 -0.2672732711 -0.2437822626 -0.2429371674 -0.2312719178
27	7.600 -0.2669788971 -0.2440065423 -0.2428655173 -0.2313085949
28	7.800 -0.2665433801 -0.2440534245 -0.2426209275 -0.2312204417
29	8.000 -0.2659926900 -0.2439495674 -0.2422330000 -0.2310615227
30	8.200 -0.2653502525 -0.2437193613 -0.2417269673 -0.2308026161
31	8.400 -0.2646371348 -0.2433843844 -0.2411248634 -0.2304453493
32	8.600 -0.2638722456 -0.2429634225 -0.2404461047 -0.2300048281
33	8.800 -0.2630725203 -0.2424726307 -0.2397078375 -0.2294965474
34	9.000 -0.2622530648 -0.2419257406 -0.2389252343 -0.2289344372
35	9.200 -0.2614272798 -0.2413342699 -0.2381117161 -0.2283306125
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37	9.600 -0.2598022648 -0.2400539697 -0.2364379966 -0.2270379892
38	9.800 -0.2590219347 -0.2393792157 -0.2355974379 -0.2263658402
39	10.000 -0.2582731413 -0.2386885911 -0.2347655095 -0.2256859125
40	10.200 -0.2575615967 -0.2379862509 -0.2339491584 -0.2250044529
41	10.400 -0.2568915768 -0.2372757078 -0.2331543203 -0.2243274245
42	10.600 -0.2562659801 -0.2365600664 -0.2323859696 -0.2236607619
43	10.800 -0.2556864241 -0.2358422319 -0.2316481603 -0.2230105977
44	11.000 -0.2551533588 -0.2351250716 -0.2309440564 -0.2223834094
45	11.200 -0.2546662246 -0.2344115086 -0.2302759527 -0.2217860673
46	11.400 -0.2542236204 -0.2337045763 -0.2296453191 -0.2212256984
47	11.600 -0.2538234943 -0.2330074251 -0.2290528204 -0.2207092890
48	11.800 -0.2534633125 -0.2323233076 -0.2284983737 -0.2202429511
49	12.000 -0.2531402370 -0.2316555272 -0.2279811803 -0.2198309385
50	12.200 -0.2528512647 -0.2310074084 -0.2274998064 -0.2194747749
51	12.400 -0.2525933547 -0.2303822515 -0.2270522372 -0.2191728402
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42 25.800 -0.2502869649 -0.2235423816 -0.2201615449 -0.2156060153
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Table 4: $(1-7)^3\Sigma^+$

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3.200	-0.2521948590	-0.1819727013	-0.1658266096	-0.1491571437	-0.1363599196	-0.1326369051	-0.1303355318
3.400	-0.2421214446	-0.1910369255	-0.1760183469	-0.1588951809	-0.1460294954	-0.1429244796	-0.1403253666
3.800	-0.2691382890	-0.2093045039	-0.1968960673	-0.1788220998	-0.1655776384	-0.1640301719	-0.1606358737
4.000	-0.2776734074	-0.2184033590	-0.2070658258	-0.1885955165	-0.1751979762	-0.1743549718	-0.1705439971
4.200	-0.2857685411	-0.2274468295	-0.2166991841	-0.1980039395	-0.1848951767	-0.1838851345	-0.1800569599
4.400	-0.2933494213	-0.2363692889	-0.2255641981	-0.2068948527	-0.1943989483	-0.1925699436	-0.1890310804
4.600	-0.3003659390	-0.2450227901	-0.2335413840	-0.2151470139	-0.2032729898	-0.2005860951	-0.19735113975
4.800	-0.3067885143	-0.2532078282	-0.2406244246	-0.2226776707	-0.2113624188	-0.2079125731	-0.2049359043
5.200	-0.3178214551	-0.2675410014	-0.2522923974	-0.2354330972	-0.2249761964	-0.2204046985	-0.2177382331
5.400	-0.3224549026	-0.2735406315	-0.2569799785	-0.2406662817	-0.2305060928	-0.2255777531	-0.2229538067
5.600	-0.3265359556	-0.2787569840	-0.2609726911	-0.2451809947	-0.2352368664	-0.2300728279	-0.2274195163
5.800	-0.3301028526	-0.2832299551	-0.2643254099	-0.2490289446	-0.2392289743	-0.2339343817	-0.2311872137
6.000	-0.3331986522	-0.2870170076	-0.2670944363	-0.2522687695	-0.2425502573	-0.2372138365	-0.2343173495
6.200	-0.3358684025	-0.2901835805	-0.2693360603	-0.2549614297	-0.2452706646	-0.2399660366	-0.2368733262
6.400	-0.3381570441	-0.2927970474	-0.27111053745	-0.2571671607	-0.2474590076	-0.2422468627	-0.23891077140
6.600	-0.3401079573	-0.2949230490	-0.2724553947	-0.2589435933	-0.2491811664	-0.2441117103	-0.2405100746
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7.000	-0.3431571907	-0.2979551811	-0.2740955649	-0.2614201487	-0.2514723565	-0.2468090292	-0.2425561766
7.200	-0.3443279139	-0.2989698682	-0.2744765943	-0.2622151843	-0.2521556765	-0.2477477585	-0.2431071721
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8.200	-0.3477856112	-0.3007269252	-0.2735098392	-0.2632652238	-0.2536563734	-0.2504374779	-0.2460968614
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9.000	-0.3488439689	-0.2998931530	-0.27111001212	-0.2622302684	-0.2570980000	-0.2494708226	-0.2456981227
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13.400	-0.3488130899	-0.2921227637	-0.2711807440	-0.2550528823	-0.2538485568	-0.2378265021	-0.2359891406
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16.400	-0.3485410888	-0.2902206207	-0.2714287739	-0.2538556742	-0.2518562637	-0.2361881830	-0.2334038408
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16.800	-0.3485205958	-0.2900831879	-0.2714176050	-0.2537734166	-0.2517001504	-0.2362798785	-0.2331063072
17.000	-0.3485113397	-0.2900209139	-0.2714113568	-0.2537337311	-0.2516286165	-0.2363231966	-0.2329777861
17.200	-0.3485026910	-0.2899625525	-0.2714048608	-0.2536948602	-0.2515610170	-0.2363643589	-0.2328609649
17.400	-0.3484946115	-0.2899078483	-0.2713982237	-0.2536567439	-0.2514970740	-0.2364031126	-0.2327545326
17.600	-0.3484870657	-0.2898565533	-0.2713915495	-0.2536193442	-0.2514365276	-0.2364392272	-0.2326572410
17.800	-0.3484800200	-0.2898084426	-0.2713849096	-0.2535826456	-0.2513791480	-0.2364725575	-0.2325679863

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26.600 -0.3483817971 -0.2891088086 -0.2712734741 -0.2527390440 -0.2503772256 -0.2361084492 -0.2312397966
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30.000 -0.3483760053 -0.2890730355 -0.2712708996 -0.2526715882 -0.2503089027 -0.2358652619 -0.2311533742
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31.000 -0.3483749558 -0.2890666011 -0.2712706259 -0.2526605778 -0.2502979761 -0.2358157815 -0.2311391674
31.200 -0.3483747695 -0.2890654575 -0.2712705830 -0.2526586827 -0.2502961215 -0.2358069206 -0.2311367168
31.400 -0.3483745903 -0.2890643573 -0.2712705431 -0.2526568760 -0.2502943638 -0.2357983844 -0.2311343841
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32.800 -0.3483735092 -0.2890577534 -0.2712703255 -0.2526463810 -0.2502844011 -0.2357470452 -0.2311207963
33.000 -0.3483733762 -0.2890569512 -0.2712703014 -0.2526451426 -0.2502832596 -0.2357408122 -0.2311191918
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Table 5: (1-8)³Π

3.000	-0.2270437781	-0.1750253864	-0.1452565874	-0.1391513817	-0.1308664866	-0.1205854973	-0.1154865235	-0.1131086051
3.200	-0.2371259118	-0.1827506849	-0.1552473634	-0.1487620898	-0.1394974773	-0.1302013003	-0.1250188863	-0.1220890475
3.400	-0.2471603180	-0.1909577019	-0.1651021338	-0.1587841149	-0.1486221464	-0.1402866058	-0.1350285286	-0.1316048739
3.800	-0.2659503363	-0.2076869514	-0.1831489289	-0.1789303765	-0.1672762007	-0.1606975145	-0.1553533135	-0.1510786239
4.000	-0.2744171709	-0.2158566843	-0.1911299772	-0.1886445228	-0.1764231374	-0.1706282219	-0.1652572752	-0.1606215665
4.200	-0.2821583929	-0.2237229508	-0.1986003636	-0.1976999537	-0.1852362197	-0.1801596768	-0.1747558846	-0.1698032575
4.400	-0.2891311241	-0.2311807503	-0.2068622406	-0.2046946847	-0.1935804008	-0.1891557976	-0.1837038487	-0.1784798339
4.600	-0.2953143545	-0.2381430035	-0.2148777373	-0.2106118617	-0.2013463066	-0.1975070115	-0.1919863764	-0.1865373097
4.800	-0.3007060949	-0.2445432712	-0.2221745897	-0.2159086109	-0.2084550753	-0.2051352790	-0.1995240084	-0.1938963513
5.200	-0.3091901477	-0.2555078839	-0.2344054894	-0.2249520275	-0.2205444098	-0.2180715109	-0.2122206954	-0.2063722305
5.400	-0.3123548979	-0.2600549727	-0.2393416405	-0.2288143663	-0.2255195690	-0.2233746905	-0.2173843295	-0.2114915654
5.600	-0.3148673474	-0.2640004463	-0.2435345275	-0.2323034828	-0.2298182586	-0.2279344128	-0.2218007364	-0.2159066388
5.800	-0.3167849997	-0.2673790001	-0.2470359642	-0.2354596931	-0.2334908552	-0.2317938178	-0.2255212350	-0.2196683654
6.000	-0.3181678243	-0.2702340029	-0.2499056437	-0.2383119493	-0.2366004982	-0.2350058957	-0.2286049096	-0.2228354788
6.200	-0.3190756185	-0.2726133238	-0.2522063096	-0.2408800735	-0.2392137181	-0.2376316321	-0.2311139539	-0.2254688976
6.400	-0.3195661521	-0.2745662444	-0.2540004604	-0.2431847371	-0.2413882275	-0.2397361393	-0.2331102177	-0.2276276845
6.600	-0.3196939911	-0.2761413568	-0.2553483041	-0.2452519638	-0.2431704329	-0.2413828854	-0.2346532000	-0.2293671927
6.800	-0.3195098411	-0.2773852180	-0.2563066163	-0.2471081073	-0.2446016702	-0.2426303366	-0.2357987742	-0.2307388882
7.000	-0.3190602341	-0.2783415269	-0.2569282716	-0.2487750145	-0.2457224118	-0.2435314302	-0.2365985301	-0.2317908694
7.200	-0.3183874668	-0.2790506539	-0.2572623011	-0.2502690277	-0.2465723281	-0.2441337108	-0.2370993644	-0.2325681949
7.400	-0.3175297166	-0.2795494779	-0.2573550962	-0.2516014517	-0.2471891540	-0.2444798241	-0.2373442281	-0.2331135626
7.600	-0.3165211731	-0.2798712242	-0.2572526499	-0.2527776843	-0.2476076357	-0.2446073333	-0.2373712772	-0.2334672703
7.800	-0.3153923739	-0.2800455916	-0.2570094691	-0.2537856245	-0.2478591643	-0.2445494815	-0.2372149383	-0.2336681099
8.000	-0.3141704603	-0.2800988272	-0.2567226801	-0.2545706488	-0.2479716389	-0.2443353527	-0.2369063896	-0.2337540631
8.200	-0.3128795731	-0.2800539279	-0.2566396474	-0.2549203756	-0.2479695086	-0.2439904942	-0.2364744741	-0.2337627461
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8.600	-0.3101741701	-0.2797462154	-0.2574713369	-0.2540530368	-0.2477024335	-0.2429945352	-0.2353580705	-0.2336802194
8.800	-0.3087956652	-0.2795145589	-0.2579622396	-0.2533158745	-0.2474700561	-0.2423797853	-0.2347671197	-0.2336024422
9.000	-0.3074207123	-0.2792473893	-0.2583995658	-0.2525136455	-0.2471884131	-0.2417074839	-0.2343404645	-0.2333595892
9.200	-0.3060627530	-0.2789539501	-0.2587736405	-0.2516789679	-0.2468663928	-0.2409903230	-0.2343036051	-0.2327485533
9.400	-0.3047337075	-0.2786413472	-0.2590845447	-0.2508330621	-0.2465102636	-0.2402392516	-0.2342899306	-0.2320887922
9.600	-0.3034440893	-0.2783148318	-0.2593355427	-0.2499923762	-0.2461239980	-0.2394637642	-0.2343875642	-0.2313231571
9.800	-0.3022030429	-0.2779781327	-0.2595309127	-0.2491706464	-0.2457096874	-0.2386722279	-0.2344808827	-0.2305457063
10.000	-0.3010183776	-0.2776338308	-0.2596750426	-0.2483795914	-0.2452680770	-0.2378723448	-0.2345486050	-0.2297739168
10.200	-0.2998965385	-0.2772837524	-0.2597719777	-0.2476290247	-0.2447991971	-0.2370721725	-0.2345789511	-0.2290185143
10.400	-0.2988425719	-0.2769293440	-0.2598251877	-0.2469266838	-0.2443030664	-0.2362831272	-0.2345620401	-0.2282868852
10.600	-0.2978600907	-0.2765720166	-0.2598374524	-0.2462779315	-0.2437803215	-0.2355325056	-0.2344750288	-0.2275840283
10.800	-0.2969512457	-0.2762134114	-0.2598108916	-0.2456856051	-0.2432326035	-0.2349254143	-0.2342188373	-0.2269130104
11.000	-0.2960167450	-0.275855604	-0.2597470482	-0.2451501978	-0.2426625749	-0.2346106823	-0.2336515494	-0.2262753878
11.200	-0.2953559121	-0.2755009511	-0.2596470623	-0.2446703631	-0.2420735755	-0.2344263795	-0.2329422580	-0.2256714014
11.400	-0.2946668149	-0.2751524493	-0.2595118721	-0.2442434570	-0.2414693068	-0.2342572830	-0.2322131891	-0.2251002754
11.600	-0.2940464466	-0.2748131715	-0.2593424410	-0.2438659133	-0.2408537445	-0.2340797808	-0.2314943736	-0.2245604271
11.800	-0.2934909428	-0.2744862585	-0.2591399606	-0.2435374479	-0.2402313277	-0.2338886192	-0.2307966309	-0.2240497816
12.000	-0.2929958181	-0.2741746377	-0.2589060222	-0.2432412067	-0.2396072026	-0.2336818615	-0.2301260501	-0.2235658174
12.200	-0.2925562150	-0.2738808309	-0.2586427313	-0.2429839484	-0.2389874680	-0.2334576212	-0.2294869988	-0.2231058568
12.400	-0.2921671173	-0.2736067843	-0.2583527574	-0.2427562755	-0.2383793274	-0.2332129869	-0.2288828660	-0.2226672365
12.600	-0.2918235340	-0.2733537708	-0.2580393162	-0.2425582414	-0.2377910536	-0.2329436407	-0.2283162159	-0.2224274645
12.800	-0.2915206480	-0.2731223898	-0.2577060904	-0.2423685529	-0.2372317640	-0.2326441457	-0.2277888239	-0.2218445017
13.000	-0.2912539081	-0.2729126136	-0.2573571125	-0.2421986734	-0.2367106305	-0.2323084042	-0.2273015710	-0.2214567584
13.200	-0.2910191134	-0.2727238637	-0.2569966071	-0.2420389120	-0.2362356617	-0.2319310973	-0.2268544585	-0.2210832930
13.400	-0.2908124273	-0.2725551493	-0.2566288509	-0.2418854754	-0.2358121406	-0.2315092349	-0.2264466266	-0.2207238218
13.600	-0.2906303982	-0.2724051748	-0.2562580247	-0.2417350743	-0.2354414447	-0.2310433695	-0.2260764338	-0.2203786614
13.800	-0.2904699490	-0.2722724747	-0.2558880889	-0.2415849280	-0.2351209623	-0.2305377628	-0.2257415998	-0.2200486097
14.000	-0.2903283596	-0.2721554856	-0.2555226823	-0.2414327476	-0.2348451220	-0.2299994136	-0.2254393709	-0.2197347595
14.200	-0.2902032382	-0.2720526334	-0.2551650450	-0.2413272724	-0.2346069365	-0.2294365753	-0.2251666847	-0.2194383104
14.400	-0.2900924945	-0.2719623988	-0.2548179785	-0.2411154990	-0.2343993000	-0.2288575122	-0.2249203205	-0.2191603712
14.600	-0.2899943005	-0.2718833524	-0.2544838186	-0.2409481669	-0.2342157623	-0.2282697922	-0.2246969847	-0.2189017909
14.800	-0.2899070694	-0.2718141623	-0.2541644196	-0.2407742219	-0.2340508155	-0.2276801144	-0.2244933372	-0.2186630460
15.000	-0.2898294250	-0.2717536279	-0.2538611773	-0.2405935481	-0.2338998998	-0.2270944568	-0.2243059208	-0.2184441826
15.200	-0.2897601741	-0.2717006519	-0.2535750477	-0.2404063838	-0.2337625705	-0.2265184941	-0.2241309204	-0.2182448671
15.400	-0.2896982780	-0.2716542820	-0.2533065818	-0.2402132609	-0.2336259106	-0.2259582715	-0.2239635855	-0.2180642028
15.600	-0.2896428417	-0.2716136596	-0.2530559740	-0.2400150034	-0.2334972105	-0.2254216349	-0.2237970684	-0.2179011530
15.800	-0.2895930858	-0.2715780355	-0.2528231088	-0.2398126550	-0.2333710747	-0.2249208987	-0.2236197840	-0.2177544129
16.000	-0.2895483344	-0.2715467583	-0.2526076109	-0.2396074336	-0.2332456970	-0.2244772496	-0.2234110941	-0.2176225634
16.200	-0.2895080007	-0.2715192563	-0.2524088971	-0.2394006817	-0.2331195258	-0.2241199684	-0.2231421441	-0.2175041596
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16.600	-0.2894386110	-0.2714736736	-0.2520587610	-0.2389882754	-0.2328596037	-0.2236814110	-0.2224077571	-0.2173021916
16.800	-0.2894087224	-0.2714547902	-0.2519055649	-0.2387854911	-0.2327372703	-0.2235466879	-0.2221996180	-0.2172161634
17.000	-0.2893815694	-0.2714380708	-0.2517656813	-0.2385868108	-0.2325827115	-0.2234385099	-0.2215849533	-0.2171386575
17.200	-0.2893568563	-0.2714232325	-0.2516381393	-0.2383934813	-0.2324358944	-0.2233468240	-0.2211841062	-0.2170687529
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17.800	-0.2892949031	-0.2713877770	-0.2513201453	-0.2378558729	-0.2319561350	-0.2231284218	-0.2200841670	-0.2168972139

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Table 6: $(1-4)^3\Delta$

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7	3.400 -0.1827819674 -0.1463046996 -0.1391771238 -0.1304262472
8	3.800 -0.1984558187 -0.1649047134 -0.1593047312 -0.1499575687
9	4.000 -0.2062693481 -0.1740214868 -0.1691314419 -0.1595125541
10	4.200 -0.2138439186 -0.1828012627 -0.1785692275 -0.1686958667
11	4.400 -0.2210479384 -0.1911115137 -0.1874718116 -0.1773665673
12	4.600 -0.2277740146 -0.1988466255 -0.1957214001 -0.1854134754
13	4.800 -0.2339404185 -0.2059319407 -0.2032334012 -0.1927586651
14	5.200 -0.2444035564 -0.2180119809 -0.2158758153 -0.2051981265
15	5.400 -0.2486709783 -0.2230045748 -0.2210002692 -0.2102931701
16	5.600 -0.2523137576 -0.2273306234 -0.2253674250 -0.2146774707
17	5.800 -0.2553661016 -0.2310289238 -0.2290317949 -0.2183993753
18	6.000 -0.2578720844 -0.2341449608 -0.2320576671 -0.2215148969
19	6.200 -0.2598810496 -0.2367284388 -0.2345120904 -0.2240828837
20	6.400 -0.2614442024 -0.2388311096 -0.2364604053 -0.2261617374
21	6.600 -0.2626122994 -0.2405047362 -0.2379640282 -0.2278074056
22	6.800 -0.2634341404 -0.2417993770 -0.2390795738 -0.2290722728
23	7.000 -0.2639556672 -0.2427622050 -0.2398586114 -0.2300046191
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25	7.400 -0.2642645695 -0.2438627653 -0.2405887546 -0.2310433231
26	7.600 -0.2641264080 -0.2440757235 -0.2406189831 -0.2312247982
27	7.800 -0.2638369503 -0.2441073143 -0.2404715553 -0.2312243104
28	8.000 -0.2634248784 -0.2439854412 -0.2401758059 -0.2310696142
29	8.200 -0.2629158388 -0.2437345151 -0.2397576304 -0.2307850686
30	8.400 -0.2623326913 -0.2433757588 -0.2392398533 -0.2303919720
31	8.600 -0.2616957404 -0.2429274946 -0.2386425654 -0.2299089063
32	8.800 -0.2610229441 -0.2424054475 -0.2379834320 -0.2293520777
33	9.000 -0.2603300598 -0.2418230350 -0.2372779518 -0.2287356341
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38	10.000 -0.2569763543 -0.2383497671 -0.2334735560 -0.2251493919
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43	11.000 -0.2544025938 -0.2345441256 -0.2299307104 -0.2215352077
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8 19.000 -0.2504296631 -0.2239091664 -0.2207438761 -0.2162512135
9 19.200 -0.2504198553 -0.2238847585 -0.2207072663 -0.2162097028
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12 19.800 -0.2503941519 -0.2238205152 -0.2206093933 -0.2160986684
13 20.000 -0.2503866719 -0.2238017039 -0.2205802911 -0.2160657518
14 20.200 -0.2503796676 -0.2237840279 -0.2205527512 -0.2160346915
15 20.400 -0.2503731062 -0.2237674039 -0.2205266743 -0.2160053776
16 20.600 -0.2503669535 -0.2237517526 -0.2205019664 -0.2159777067
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18 21.000 -0.2503557619 -0.2237231014 -0.2204563330 -0.2159269075
19 21.200 -0.2503506707 -0.2237099791 -0.2204352600 -0.2159035982
20 21.400 -0.2503458852 -0.2236975877 -0.2204152597 -0.2158815673
21 21.600 -0.2503413835 -0.2236858777 -0.2203962739 -0.2158607454
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24 22.200 -0.2503293969 -0.2236544147 -0.2203448551 -0.2158048041
25 22.400 -0.2503258529 -0.2236450241 -0.2203293997 -0.2157881186
26 22.600 -0.2503225097 -0.2236361253 -0.2203147124 -0.2157723186
27 22.800 -0.2503193532 -0.2236276884 -0.2203007528 -0.2157573525
28 23.000 -0.2503163745 -0.2236196875 -0.2202874840 -0.2157431704
29 23.200 -0.2503135597 -0.2236120958 -0.2202748704 -0.2157297270
30 23.400 -0.2503108985 -0.2236048885 -0.2202628756 -0.2157169785
31 23.600 -0.2503083817 -0.2235980441 -0.2202514705 -0.2157048870
32 23.800 -0.2503060017 -0.2235915437 -0.2202406242 -0.2156934143
33 24.000 -0.2503037478 -0.2235853641 -0.2202303062 -0.2156825236
34 24.200 -0.2503016133 -0.2235794894 -0.2202204856 -0.2156721826
35 24.400 -0.2502995909 -0.2235739029 -0.2202111472 -0.2156623606
36 24.600 -0.2502975556 -0.2235680399 -0.2202019380 -0.2156525386
37 24.800 -0.2502955556 -0.2235635288 -0.2201938039 -0.2156441595
38 25.000 -0.2502941303 -0.2235587132 -0.2201857536 -0.2156357271
39 25.200 -0.2502927031 -0.2235544976 -0.2201777021 -0.2156274946
40 25.400 -0.2502912759 -0.2235502820 -0.2201696506 -0.2156192621
41 25.600 -0.2502898487 -0.2235460664 -0.2201615991 -0.2156110296
42 25.800 -0.2502884215 -0.2235418508 -0.2201535476 -0.2156027971
43 26.000 -0.2502870000 -0.2235376351 -0.2201454961 -0.2155945646
44 26.200 -0.2502855785 -0.2235334194 -0.2201374446 -0.2155863321
45 26.400 -0.2502841570 -0.2235292037 -0.2201293931 -0.2155781000
46 26.600 -0.2502827355 -0.2235249880 -0.2201213416 -0.2155698675
47 26.800 -0.2502813140 -0.2235207723 -0.2201132901 -0.2155616350
48 27.000 -0.2502798925 -0.2235165566 -0.2201052386 -0.2155534025
49 27.200 -0.2502784710 -0.2235123409 -0.2200971871 -0.2155451700
50 27.400 -0.2502770495 -0.2235081252 -0.2200891356 -0.2155369375
51 27.600 -0.2502756280 -0.2235039095 -0.2200810841 -0.2155287050
52 27.800 -0.2502742065 -0.2235000000 -0.2200730326 -0.2155204725
53 28.000 -0.2502727850 -0.2234960905 -0.2200649811 -0.2155122400
54 28.200 -0.2502713635 -0.2234921810 -0.2200569296 -0.2155040075
55 28.400 -0.2502699420 -0.2234882715 -0.2200488781 -0.2154957750
56 28.600 -0.2502685205 -0.2234843620 -0.2200408266 -0.2154875425
57 28.800 -0.2502670990 -0.2234804525 -0.2200327751 -0.2154793100
58 29.000 -0.2502656775 -0.2234765430 -0.2200247236 -0.2154710775
59 29.200 -0.2502642560 -0.2234726335 -0.2200166721 -0.2154628450
60 29.400 -0.2502628345 -0.2234687240 -0.2200086206 -0.2154546125
31.800 -0.2502660663 -0.2234776639 -0.2200527489 -0.2154969791

The following tables display the potential energy curves of **NaRb** for the seven lowest $^1\Sigma$ states, the eight lowest $^1\Pi$ states, and the five lowest $^1\Delta$ states (Tables 1 to 3) and for the seven lowest $^3\Sigma$ states, the eight lowest $^3\Pi$ states, and the five lowest $^3\Delta$ states (Tables 4 to 6). Distances and energies are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 219474.63137 cm⁻¹. The curves are computed using the large basis set for both atoms, as described in the accompanying paper. The origin of energies is defined at the ionisation limit for both atoms.

Table 1: (1-7)¹ Σ^+

4.400	-0.3271169834	-0.2519720870	-0.2278969038	-0.2105700469	-0.1996517387	-0.1923632003	-0.1861160919
4.600	-0.3336877107	-0.2592578423	-0.2346756989	-0.2183290927	-0.2075365140	-0.1997533873	-0.1936586811
4.800	-0.3397224647	-0.2662315821	-0.2411114258	-0.2255739035	-0.2148711826	-0.2067315611	-0.2007366894
5.000	-0.3451332322	-0.2727799306	-0.2471350374	-0.2321965963	-0.2216174395	-0.2132293275	-0.2072704715
5.200	-0.3498673817	-0.2788169475	-0.2526965597	-0.2381343979	-0.2277550421	-0.2191936847	-0.2132116908
5.400	-0.3539054190	-0.2842881433	-0.2577629570	-0.2433648484	-0.2332801387	-0.2245912612	-0.2185389024
5.600	-0.3572561052	-0.2891692361	-0.2623174861	-0.2478970594	-0.2382052452	-0.2294094949	-0.2232529553
5.800	-0.3599500616	-0.2934613631	-0.2663591336	-0.2517621161	-0.2425577070	-0.2336546744	-0.2273721693
6.000	-0.3620331969	-0.2971849016	-0.2699009371	-0.2550047356	-0.2463765012	-0.2373479728	-0.2309275514
6.200	-0.3635608172	-0.3003733540	-0.2729671801	-0.2576769365	-0.2497082792	-0.2405209162	-0.2339586729
6.800	-0.3654123494	-0.3071577794	-0.2796550249	-0.2628181847	-0.2572848181	-0.2473072168	-0.2403655091
7.000	-0.3653155834	-0.3086434707	-0.2811747226	-0.2637494870	-0.2591640731	-0.2487947172	-0.2417639890
7.400	-0.3643697513	-0.3107081592	-0.2833737538	-0.2647266977	-0.2621938189	-0.2508427369	-0.2437252007
7.600	-0.3636114477	-0.3113625914	-0.2841195673	-0.2648629251	-0.2633989059	-0.2514746597	-0.2443665735
7.800	-0.3627157223	-0.3118095061	-0.2846685228	-0.2648817593	-0.2643617270	-0.2518887444	-0.2448264564
8.000	-0.3617166913	-0.3120777111	-0.2850455776	-0.2654461878	-0.2644710017	-0.2521145299	-0.2451324548
8.200	-0.3606443736	-0.3121924855	-0.2852723876	-0.2661913497	-0.2641368844	-0.2521788040	-0.2453071451
8.400	-0.3595250011	-0.3121757521	-0.2853675348	-0.2668395837	-0.2636773246	-0.2521057272	-0.2453693075
8.600	-0.3583813385	-0.3120462900	-0.2853468604	-0.2673873746	-0.2631321591	-0.2519167934	-0.2453343734
8.800	-0.3572329562	-0.3118200041	-0.2852238554	-0.2678437063	-0.2625256458	-0.2516309319	-0.2452152999
9.000	-0.3560965119	-0.3115102108	-0.2850100634	-0.2682191848	-0.2618779112	-0.2512646458	-0.2450231578
9.200	-0.3549859639	-0.3111279575	-0.2847154910	-0.2685247271	-0.2612065143	-0.2508321973	-0.2447676347
9.400	-0.3539127713	-0.3106823373	-0.2843489794	-0.2687711911	-0.2605268798	-0.2503458359	-0.2444574162
9.800	-0.3519128347	-0.3096295928	-0.2834315176	-0.2691283266	-0.2591944937	-0.2492520261	-0.2437047045
10.000	-0.3509980600	-0.3090338543	-0.2828949995	-0.2692579815	-0.2585625249	-0.2486617163	-0.2432778283
10.200	-0.3501449282	-0.3083981145	-0.2823157209	-0.2693660964	-0.2579638523	-0.2480524845	-0.2428285510
10.400	-0.3493550166	-0.3077264460	-0.2817002767	-0.2694595477	-0.2574038328	-0.2474312985	-0.2423672175
10.600	-0.3486284935	-0.3070226629	-0.2810550983	-0.2695439734	-0.2568859223	-0.2468050492	-0.2419074449
10.800	-0.3479643521	-0.3062904970	-0.2803864979	-0.2696237644	-0.2564118691	-0.2461808176	-0.2414688929
11.000	-0.3473606109	-0.3055336590	-0.2797006169	-0.2697020840	-0.2559819329	-0.2455660507	-0.2410815496
11.200	-0.3468145475	-0.3047559062	-0.2790034359	-0.2697809287	-0.2555951762	-0.2449687857	-0.2407889005
11.400	-0.3463228903	-0.3039610386	-0.2783007392	-0.2698612219	-0.2552497536	-0.2443979498	-0.2406373166
11.600	-0.3458820000	-0.3031528827	-0.2775981130	-0.2699429014	-0.2549431833	-0.2438640353	-0.2406409077
11.800	-0.3454880381	-0.3023352603	-0.2769009652	-0.2700250197	-0.2546726004	-0.2433808041	-0.2407609389
12.000	-0.3451370864	-0.3015119479	-0.2762145693	-0.2701057961	-0.2544349403	-0.2429697795	-0.2409307696
12.200	-0.3448252774	-0.3006866409	-0.2755441541	-0.2701826460	-0.2542271040	-0.2426699494	-0.2410751660
12.400	-0.3445488571	-0.2998629166	-0.2748950970	-0.2702520998	-0.2540460678	-0.2425395067	-0.2411128744
12.600	-0.3443042540	-0.2990442113	-0.2742732509	-0.2703095758	-0.2538889593	-0.2425962996	-0.2410112681
12.800	-0.3440881256	-0.2982337997	-0.2736854766	-0.2703489061	-0.2537531012	-0.2427755924	-0.2408242363
13.000	-0.3438973667	-0.2974347790	-0.2731405929	-0.2703614990	-0.2536360430	-0.2430101250	-0.2406096933
13.200	-0.3437291413	-0.2966500763	-0.2726505216	-0.2703352204	-0.2535355640	-0.2432654165	-0.2403933175
13.400	-0.3435808624	-0.2958824247	-0.2722305874	-0.2702541577	-0.2534496726	-0.2435262459	-0.2401818615
13.600	-0.3434501996	-0.2951343784	-0.2718951938	-0.2701029828	-0.2533765933	-0.2437857538	-0.2399742373
13.800	-0.3433350627	-0.2944082943	-0.2716463629	-0.2698784621	-0.2533147576	-0.2440407496	-0.2397665193
14.000	-0.3432335891	-0.2937063426	-0.2714664644	-0.2695967599	-0.2532627859	-0.2442897406	-0.2395540708
14.200	-0.3431441168	-0.2930304802	-0.2713279606	-0.2692837512	-0.2532194611	-0.2445320474	-0.2393325764
14.400	-0.3430651850	-0.2923824528	-0.2712068830	-0.2689615783	-0.2531837224	-0.2447673850	-0.2390984856
14.600	-0.3429954933	-0.2917637656	-0.2710869620	-0.2686464041	-0.2531546329	-0.2449956441	-0.2388491393
14.800	-0.3429339041	-0.2911756711	-0.2709580566	-0.2683410158	-0.2531313794	-0.2452167961	-0.2385827780
15.000	-0.3428794125	-0.2906191402	-0.2708139266	-0.2680551545	-0.2531132426	-0.2454308440	-0.2382984681
15.200	-0.3428311430	-0.2900948539	-0.2706507208	-0.2677890563	-0.2530995917	-0.2456377948	-0.2379959760
15.400	-0.3427883219	-0.2896031734	-0.2704661110	-0.2675434013	-0.2530898667	-0.2458376561	-0.2376756373
15.600	-0.3427502758	-0.2891441471	-0.2702588065	-0.2673180500	-0.2530835748	-0.2460304443	-0.2373382386
15.800	-0.3427164178	-0.2887174952	-0.2700282748	-0.2671123484	-0.2530802739	-0.2462161837	-0.2369849589
16.200	-0.3426592685	-0.2879586772	-0.2694982278	-0.2667559300	-0.2530811075	-0.2465666689	-0.2362364803
16.400	-0.3426351377	-0.2876245084	-0.2692001371	-0.2666028546	-0.2530845711	-0.2467315332	-0.2358445318
16.600	-0.3426134950	-0.2873187741	-0.2688815030	-0.2664648768	-0.2530896718	-0.2468895860	-0.2354430859
16.800	-0.3425940445	-0.2870399614	-0.2685437594	-0.2663407423	-0.2530961507	-0.2470409321	-0.2350339082
17.000	-0.3425765270	-0.2867864312	-0.2681885072	-0.2662292364	-0.2531037726	-0.2471856888	-0.2346187753
17.200	-0.3425607135	-0.2865564678	-0.2678174566	-0.2661291945	-0.2531123215	-0.2473239876	-0.2341994805
17.400	-0.3425464105	-0.2863483359	-0.2674323891	-0.2660395012	-0.2531216032	-0.2474559733	-0.2337776538
17.600	-0.3425334420	-0.2861602919	-0.2670351301	-0.2659590759	-0.2531314370	-0.2475817986	-0.2333550254
17.800	-0.3425216595	-0.2859906430	-0.2666276125	-0.2658867912	-0.2531416579	-0.2477016187	-0.2329332724

18.000 -0.3425109333 -0.2858377611 -0.2662124390 -0.2658208531 -0.2531521117 -0.2478155972 -0.2325141113
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19.000 -0.3424695651 -0.2852741474 -0.2655947861 -0.2640413427 -0.2532029686 -0.2483033927 -0.2316052902
19.200 -0.3424631981 -0.2851928848 -0.2655620539 -0.2636014923 -0.2532119304 -0.2483855739 -0.2316367724
19.400 -0.3424573267 -0.2851196915 -0.2655328559 -0.2631619434 -0.2532201785 -0.2484629393 -0.2316705457
19.800 -0.3424468887 -0.2849942099 -0.2654834758 -0.2622876817 -0.2532339533 -0.2486036533 -0.2317438996
20.000 -0.3424422458 -0.2849404785 -0.2654626395 -0.2618547429 -0.2532391679 -0.2486671871 -0.2317830747
20.400 -0.3424339505 -0.2848479780 -0.2654273089 -0.2610012906 -0.2532453516 -0.2487809439 -0.2318655377
20.600 -0.3424302423 -0.2848081764 -0.2654123537 -0.2605822953 -0.2532459022 -0.2488312511 -0.2319084985
21.600 -0.3424152326 -0.2846575847 -0.2653577165 -0.2585948872 -0.2532118280 -0.2490167139 -0.2321347541
22.400 -0.3424064752 -0.2845780247 -0.2653307159 -0.2571874668 -0.2531130204 -0.2490796722 -0.2323218049
22.600 -0.3424046294 -0.2845620840 -0.2653255374 -0.2568705567 -0.2530726470 -0.2490816992 -0.2323685122
22.800 -0.3424029007 -0.2845474233 -0.2653208601 -0.2565706432 -0.2530241002 -0.2490774683 -0.2324150061
23.000 -0.3424012816 -0.2845339238 -0.2653166338 -0.2562894139 -0.2529663550 -0.2490664588 -0.2324612087
23.200 -0.3423997625 -0.2845214739 -0.2653128083 -0.2560285417 -0.2528984710 -0.2490480557 -0.2325070432
23.800 -0.3423957364 -0.2844895084 -0.2653033519 -0.2553810866 -0.2526294589 -0.2489409634 -0.2326416857
24.000 -0.3423945498 -0.2844803872 -0.2653007624 -0.2552120703 -0.2525194321 -0.2488850288 -0.2326853486
24.200 -0.3423934315 -0.2844719207 -0.2652984074 -0.2550655630 -0.2524018288 -0.2488174092 -0.2327284075
24.400 -0.3423923759 -0.2844640517 -0.2652962619 -0.2549399620 -0.2522792309 -0.2487371516 -0.2327707582
24.600 -0.3423913805 -0.2844567319 -0.2652943101 -0.2548331772 -0.2521545934 -0.2486434214 -0.2328123617
24.800 -0.3423904382 -0.2844499133 -0.2652925277 -0.2547428946 -0.2520309122 -0.2485355699 -0.2328531809
25.000 -0.3423895472 -0.2844435559 -0.2652908981 -0.2546667860 -0.2519109294 -0.2484132183 -0.2328931841
25.200 -0.3423887030 -0.2844376207 -0.2652894075 -0.2546026603 -0.2517968998 -0.2482763154 -0.2329323437
25.400 -0.3423879012 -0.2844320724 -0.2652880410 -0.2545485616 -0.2516904765 -0.2481251743 -0.2329706371
25.600 -0.3423871402 -0.2844268833 -0.2652867871 -0.2545028113 -0.2515926924 -0.2479604550 -0.2330080358
25.800 -0.3423864169 -0.2844220243 -0.2652856361 -0.2544639858 -0.2515040019 -0.2477831260 -0.2330445294
26.000 -0.3423857285 -0.2844174701 -0.2652845763 -0.2544309105 -0.2514244011 -0.2475943767 -0.2330801033
26.200 -0.3423850711 -0.2844131957 -0.2652835975 -0.2544026081 -0.2513535289 -0.2473955336 -0.2331147500
26.400 -0.3423844452 -0.2844091828 -0.2652826965 -0.2543782890 -0.2512908029 -0.2471879573 -0.2331484524
26.600 -0.3423838457 -0.2844054095 -0.2652818612 -0.2543572983 -0.2512355114 -0.2469730085 -0.2331812093
26.800 -0.3423832729 -0.2844018609 -0.2652810877 -0.2543391047 -0.2511869022 -0.2467519627 -0.2332130211
27.000 -0.3423827242 -0.2843985187 -0.2652803697 -0.2543232717 -0.2511442169 -0.2465259834 -0.2332438740
27.200 -0.3423821977 -0.2843953691 -0.2652797016 -0.2543094354 -0.2511067498 -0.2462961449 -0.2332737889
27.400 -0.3423816922 -0.2843923983 -0.2652790794 -0.2542973000 -0.2510738450 -0.2460633725 -0.2333027659
27.600 -0.3423812073 -0.2843895957 -0.2652785003 -0.2542866149 -0.2510449176 -0.2458284786 -0.2333308063
27.800 -0.3423807402 -0.2843869473 -0.2652779591 -0.2542771765 -0.2510194477 -0.2455921640 -0.2333579167
28.000 -0.3423802904 -0.2843844441 -0.2652774511 -0.2542688079 -0.2509969832 -0.2453550295 -0.2333841094
28.200 -0.3423798575 -0.2843820765 -0.2652769747 -0.2542613667 -0.2509771311 -0.2451175927 -0.2334093950
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28.600 -0.3423790369 -0.2843777122 -0.2652761062 -0.2542487891 -0.2509439392 -0.2446434842 -0.2334572890
28.800 -0.3423786483 -0.2843757007 -0.2652757105 -0.2542434599 -0.2509300550 -0.2444075095 -0.2334799354
29.000 -0.3423782724 -0.2843737917 -0.2652753363 -0.2542386622 -0.2509176719 -0.2441725998 -0.2335017196
29.200 -0.3423779093 -0.2843719803 -0.2652749827 -0.2542343369 -0.2509066040 -0.2439390012 -0.2335226718
29.400 -0.3423775581 -0.2843702600 -0.2652746479 -0.2542304227 -0.2508966877 -0.2437068918 -0.2335428037
29.600 -0.3423772193 -0.2843686260 -0.2652743320 -0.2542268768 -0.2508877845 -0.2434764326 -0.2335621360
29.800 -0.3423768904 -0.2843670707 -0.2652740302 -0.2542236504 -0.2508797702 -0.2432477445 -0.2335806841
30.000 -0.3423765723 -0.2843655911 -0.2652737448 -0.2542207115 -0.2508725409 -0.2430209440 -0.2335984657
30.400 -0.3423759672 -0.2843628412 -0.2652732143 -0.2542155729 -0.2508600845 -0.2425733403 -0.2336318145

Table 2: (1-8)¹Π

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4.800	-0.2547763134	-0.2404990866	-0.2151079700	-0.2076763277	-0.2023012504	-0.1935224324	-0.1894912574	-0.1824718722
5.000	-0.2605780401	-0.2454417063	-0.2207724311	-0.2137351759	-0.2086487718	-0.2001306106	-0.1961424570	-0.1889882060
5.200	-0.2658009404	-0.2500240949	-0.2259698971	-0.2192277150	-0.2143950832	-0.2061108126	-0.2021449402	-0.1949294415
5.400	-0.2704227866	-0.2542181013	-0.2306705947	-0.2241660445	-0.2195174548	-0.2114383222	-0.2074724678	-0.2002596100
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5.800	-0.2778850898	-0.2613648748	-0.2385444366	-0.2324534836	-0.2279222215	-0.2201794093	-0.2161496138	-0.2090644610
6.000	-0.2807788148	-0.2643066499	-0.2417457246	-0.2358406147	-0.2312621542	-0.2236609114	-0.2195718271	-0.2125768410
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11.000	-0.2868374400	-0.2689021899	-0.2569871684	-0.2421086813	-0.2364812841	-0.2300184658	-0.2244202980	-0.2197863718
11.200	-0.2866744381	-0.2685166909	-0.2568453537	-0.2416107395	-0.2359220228	-0.2294585803	-0.2236872030	-0.2194145798
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11.800	-0.2862443650	-0.2675693149	-0.2564213853	-0.2401760283	-0.2343072481	-0.2278876189	-0.2215144948	-0.2183544942
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29.600 -0.2843459603 -0.2652777243 -0.2541987557 -0.2340265780 -0.2253635789 -0.2115880779 -0.2096932823 -0.2073761960
29.800 -0.2843453800 -0.2652773825 -0.2541979500 -0.2340245463 -0.2253585837 -0.2114991130 -0.2096843713 -0.2073627536
30.000 -0.2843448244 -0.2652770527 -0.2541971825 -0.2340226022 -0.2253537838 -0.2114115857 -0.2096758184 -0.2073556106
30.200 -0.2843442921 -0.2652767340 -0.2541964501 -0.2340207387 -0.2253491709 -0.2113254820 -0.2096676107 -0.2073501370
30.600 -0.2843432921 -0.2652761270 -0.2541950839 -0.2340172447 -0.2253404826 -0.2111574465 -0.2096521681 -0.2073410306

Table 3: (1-5)¹Δ

3.000	-0.1856692734	-0.1387407671	-0.1316999341	-0.1272427870	-0.1215764608
3.200	-0.1899053661	-0.1431626951	-0.1377487598	-0.1300802889	-0.1271865646
3.400	-0.1957293371	-0.1494797608	-0.1451242903	-0.1353567280	-0.1335627359
3.600	-0.2022867822	-0.1569500145	-0.1528236246	-0.1424891840	-0.1399685497
3.800	-0.2090693515	-0.1649625449	-0.1605804635	-0.1503199248	-0.1468846957
4.000	-0.2157737496	-0.1730732383	-0.1683453092	-0.1583038446	-0.1544081865
4.200	-0.2222212373	-0.1810296489	-0.1760541875	-0.1661799289	-0.1622355407
4.400	-0.2283081173	-0.1886830661	-0.1836164693	-0.1737628988	-0.1700417178
4.600	-0.2339744393	-0.1959271133	-0.1909297738	-0.1809160819	-0.1775976969
4.800	-0.2391848940	-0.2026767446	-0.1978884503	-0.1875474409	-0.1847420742
5.000	-0.2439183676	-0.2088664224	-0.2043942356	-0.1936052642	-0.1913570333
5.200	-0.2481633671	-0.2144531464	-0.2103683421	-0.1990761960	-0.1973532225
5.400	-0.2519168697	-0.2194178451	-0.2157592951	-0.2039937375	-0.2026499462
5.600	-0.2551844241	-0.2237636325	-0.2205441035	-0.2084367026	-0.2071676688
5.800	-0.2579800750	-0.2275118834	-0.2247243461	-0.2124388711	-0.2109092955
6.000	-0.2603256447	-0.2306976898	-0.2283199246	-0.2159578413	-0.2139818246
6.200	-0.2622492820	-0.2333658297	-0.2313623980	-0.2189756066	-0.2164866494
6.800	-0.2658277520	-0.2388018848	-0.2375401860	-0.2252990416	-0.2212873317
7.000	-0.2664103732	-0.2399484546	-0.2387353655	-0.2266355298	-0.2221911686
7.400	-0.2668729211	-0.2415085665	-0.2400841634	-0.2284040048	-0.2234065348
7.600	-0.2668180972	-0.2419691192	-0.2403430109	-0.2289112179	-0.2238018283
7.800	-0.2666123545	-0.2422441852	-0.2403874480	-0.2292115551	-0.2240317799
8.000	-0.2662825833	-0.2423555356	-0.2402548186	-0.2293340321	-0.2240953071
8.200	-0.2658532802	-0.2423246549	-0.2399762842	-0.2293043332	-0.2240073117
8.400	-0.2653465934	-0.2421716456	-0.2395782997	-0.2291450389	-0.2237872222
8.600	-0.2647824137	-0.2419146794	-0.2390836515	-0.2288759011	-0.2234546579
8.800	-0.2641784612	-0.2415698152	-0.2385121105	-0.2285141393	-0.2230280150
9.000	-0.2635503781	-0.2411510490	-0.2378808984	-0.2280747485	-0.2225240694
9.200	-0.2629117952	-0.2406704620	-0.2372050100	-0.2275707879	-0.2219579179
9.400	-0.2622744084	-0.2401384518	-0.2364974675	-0.2270136798	-0.2213430747
9.800	-0.2610407485	-0.2389549397	-0.2350307391	-0.2257790024	-0.2200142635
10.000	-0.2604588360	-0.2383182563	-0.2342892793	-0.2251182581	-0.2193207200
10.200	-0.2599070456	-0.2376603146	-0.2335518566	-0.2244383778	-0.2186196770
10.400	-0.2593886589	-0.2369870948	-0.2328239064	-0.2237458786	-0.2179190796
10.600	-0.2589056494	-0.2363043527	-0.2321096525	-0.2230467227	-0.2172262873
10.800	-0.2584588797	-0.2356177568	-0.2314121905	-0.2223464004	-0.2165482574
11.000	-0.2580482657	-0.2349329370	-0.2307335417	-0.2216499556	-0.2158916936
11.200	-0.2576729774	-0.2342555225	-0.2300747587	-0.2209620229	-0.2152631629
11.400	-0.2573316120	-0.2335910926	-0.2294360072	-0.2202868315	-0.2146691089
11.600	-0.2570223548	-0.2329451018	-0.2288167073	-0.2196282028	-0.2141156678
11.800	-0.2567431267	-0.2323227365	-0.2282157017	-0.2189895515	-0.2136082196
12.000	-0.2564916974	-0.2317287427	-0.2276314773	-0.2183738776	-0.2131506319
12.200	-0.2562657872	-0.2311672044	-0.2270624169	-0.2177837615	-0.2127443642
12.400	-0.2560631359	-0.2306413382	-0.2265070661	-0.2172213616	-0.2123878263
12.600	-0.2558815643	-0.2301533169	-0.2259643535	-0.2166884077	-0.2120763967
12.800	-0.2557189983	-0.2297041795	-0.2254337430	-0.2161861925	-0.2118032102
13.000	-0.2555735075	-0.2292938517	-0.2249152705	-0.2157155569	-0.2115603791
13.200	-0.2554433072	-0.2289212838	-0.2244094823	-0.2152768818	-0.2113401786
13.400	-0.2553267680	-0.2285846432	-0.2239172831	-0.2148700709	-0.2111358553
13.600	-0.2552224090	-0.2282815697	-0.2234397577	-0.2144945461	-0.2109420425
13.800	-0.2551288944	-0.2280093876	-0.2229780002	-0.2141492545	-0.2107548433
14.000	-0.2550450330	-0.2277653113	-0.2225329712	-0.2138327145	-0.2105717332
14.200	-0.2549697524	-0.2275465758	-0.2221054020	-0.2135430746	-0.2103913411
14.400	-0.2549021034	-0.2273505441	-0.2216957529	-0.2132782379	-0.2102132022
14.600	-0.2548412375	-0.2271747545	-0.2213041871	-0.2130359588	-0.2100374856
14.800	-0.2547864055	-0.2270169559	-0.2209305870	-0.2128139770	-0.2098647507
15.000	-0.2547369424	-0.2268751127	-0.2205745944	-0.2126101308	-0.2096957439
15.200	-0.2546922613	-0.2267474087	-0.2202356403	-0.2124224179	-0.2095312440
15.400	-0.2546518375	-0.2266322219	-0.2199129860	-0.2122490507	-0.2093719544
15.600	-0.2546152147	-0.2265281220	-0.2196057775	-0.2120884594	-0.2092184430
15.800	-0.2545819841	-0.2264338462	-0.2193130794	-0.2119392974	-0.2090711184
16.200	-0.2545243022	-0.2262704681	-0.2187672733	-0.2116708282	-0.2087958978
16.400	-0.2544992515	-0.2261995381	-0.2185121858	-0.2115497043	-0.2086680906
16.600	-0.2544763836	-0.2261347459	-0.2182676858	-0.2114363200	-0.2085466991
16.800	-0.2544554781	-0.2260754349	-0.2180328617	-0.2113300517	-0.2084315382
17.000	-0.2544363395	-0.2260210298	-0.2178068490	-0.2112303511	-0.2083223716
17.600	-0.2543878767	-0.2258824933	-0.2171739031	-0.2109660162	-0.2080280846
18.200	-0.2543500951	-0.2257731837	-0.2165947784	-0.2107458424	-0.2077777493
18.400	-0.2543393891	-0.2257418919	-0.2164111541	-0.2106807767	-0.2077028900
18.800	-0.2543203171	-0.2256856991	-0.2160554356	-0.2105615362	-0.2075648449
19.000	-0.2543118188	-0.2256604422	-0.2158826304	-0.2105068967	-0.2075013673
19.200	-0.2543039338	-0.2256368688	-0.2157127799	-0.2104552986	-0.2074414496
19.400	-0.2542966111	-0.2256148430	-0.2155456171	-0.2104065487	-0.2073850362

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3 19.600 -0.2542898021 -0.2255942407 -0.2153808995 -0.2103604663 -0.2073321114
4 19.800 -0.2542834658 -0.2255749524 -0.2152184178 -0.2103168877 -0.2072827023
5 20.000 -0.2542775642 -0.2255568785 -0.2150579799 -0.2102756584 -0.2072368819
6 20.200 -0.2542720623 -0.2255399288 -0.2148994216 -0.2102366349 -0.2071947605
7 20.400 -0.2542669283 -0.2255240186 -0.2147425897 -0.2101996843 -0.2071564824
8 20.600 -0.2542621332 -0.2255090736 -0.2145873551 -0.2101646814 -0.2071222064
9 20.800 -0.2542576511 -0.2254950264 -0.2144336020 -0.2101315126 -0.2070920848
10 21.200 -0.2542495313 -0.2254693749 -0.2141301440 -0.2100702495 -0.2070446424
11 21.600 -0.2542424031 -0.2254466245 -0.2138315423 -0.2100151173 -0.2070138336
12 22.000 -0.2542361245 -0.2254264000 -0.2135372857 -0.2099654336 -0.2069974682
13 24.000 -0.2542139550 -0.2253535482 -0.2121212374 -0.2097802443 -0.2070217677
14 24.200 -0.2542123611 -0.2253482316 -0.2119843020 -0.2097662719 -0.2070275714
15 24.400 -0.2542108520 -0.2253431929 -0.2118482000 -0.2097529579 -0.2070334554
16 25.000 -0.2542067879 -0.2253295856 -0.2114449776 -0.2097166321 -0.2070510884
17 25.800 -0.2542022776 -0.2253144605 -0.2109196516 -0.2096755331 -0.2070734138
18 26.000 -0.2542012881 -0.2253111406 -0.2107906287 -0.2096663959 -0.2070786715
19 26.200 -0.2542003461 -0.2253079861 -0.2106625709 -0.2096576662 -0.2070837823
20 26.400 -0.2541994514 -0.2253049875 -0.2105355068 -0.2096493272 -0.2070887447
21 26.600 -0.2541985986 -0.2253021336 -0.2104094621 -0.2096413558 -0.2070935536
22 26.800 -0.2541977872 -0.2252994225 -0.2102844672 -0.2096337337 -0.2070982102
23 27.000 -0.2541970142 -0.2252968410 -0.2101605557 -0.2096264423 -0.2071027140
24 27.200 -0.2541962772 -0.2252943833 -0.2100377667 -0.2096194623 -0.2071070651
25 27.400 -0.2541955743 -0.2252920451 -0.2099161414 -0.2096127714 -0.2071112662
26 27.600 -0.2541949046 -0.2252898177 -0.2097957465 -0.2096063332 -0.2071153201
27 27.800 -0.2541942648 -0.2252876973 -0.2096767803 -0.2095999778 -0.2071192283
28 28.000 -0.2541936539 -0.2252856766 -0.2095954464 -0.2095575338 -0.2071229941
29 28.200 -0.2541930709 -0.2252837505 -0.2095891952 -0.2094415952 -0.2071266217
30 28.400 -0.2541925138 -0.2252819149 -0.2095837449 -0.2093264820 -0.2071301133
31 28.600 -0.2541919808 -0.2252801653 -0.2095785751 -0.2092127615 -0.2071334718
32 28.800 -0.2541914720 -0.2252784957 -0.2095736388 -0.2091005409 -0.2071367023
33 29.000 -0.2541909845 -0.2252769039 -0.2095689127 -0.2089898934 -0.2071398066
34 29.200 -0.2541905183 -0.2252753852 -0.2095643873 -0.2088808968 -0.2071427880
35 30.000 -0.2541888424 -0.2252699665 -0.2095480744 -0.2084630726 -0.2071535421
36 30.200 -0.2541884663 -0.2252687615 -0.2095444031 -0.2083636052 -0.2071559482
37 30.400 -0.2541881054 -0.2095408802 -0.2095408762 -0.2082663260 -0.2071582434
38 30.600 -0.2541877592 -0.2252665070 -0.2095374981 -0.2081713399 -0.2071604277
39 30.800 -0.2541874275 -0.2252654554 -0.2095342481 -0.2080787516 -0.2071624995
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Table 4: $(1-7)^3\Sigma^+$

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4.400	-0.2844899441	-0.2282117620	-0.2200108603	-0.1982453557	-0.1880454298	-0.1851579434	-0.1815281972
4.600	-0.2910993646	-0.2348940145	-0.2287585038	-0.2061034946	-0.1962531979	-0.1929682314	-0.1894122580
4.800	-0.2973127619	-0.2415030011	-0.2367726514	-0.2135631392	-0.2040242859	-0.2002574405	-0.1968430336
5.000	-0.3030794446	-0.2482400125	-0.2436344397	-0.2204289043	-0.2112151240	-0.2069607093	-0.2037193731
5.200	-0.3083675168	-0.2549789360	-0.2493131391	-0.2267102807	-0.2177382102	-0.2130395233	-0.2099722052
5.400	-0.3131625003	-0.2613292854	-0.2541088006	-0.2323412891	-0.2235544032	-0.2184789508	-0.2155639023
5.600	-0.3174654793	-0.2670680797	-0.2582159559	-0.2373154807	-0.2286612018	-0.2232850705	-0.2204849799
5.800	-0.3212905051	-0.2721286285	-0.2617236455	-0.2416506067	-0.2330819238	-0.2274806378	-0.2247190528
6.000	-0.3246615764	-0.2765161784	-0.2646861170	-0.2453811360	-0.2368568363	-0.2311000388	-0.2283872130
6.200	-0.3276095623	-0.2802685309	-0.2671491128	-0.2485517780	-0.2400362290	-0.2341846638	-0.2314425046
6.400	-0.3342718546	-0.2882611210	-0.2719818306	-0.2552084294	-0.2465571323	-0.2406823859	-0.2376221614
6.600	-0.3358867808	-0.2900286852	-0.2728838740	-0.2568425185	-0.2479083709	-0.2420803478	-0.2388599494
6.800	-0.3384112068	-0.2925366235	-0.2738662269	-0.2586075107	-0.2496808348	-0.2439817933	-0.2403911394
7.000	-0.3393799188	-0.2933683320	-0.2740194140	-0.2592175103	-0.2501921061	-0.2445671584	-0.2407728176
7.200	-0.3401877505	-0.2939718492	-0.2739916308	-0.2596256448	-0.2505087783	-0.2449671965	-0.2409684624
7.400	-0.3408572950	-0.2943816479	-0.2738128527	-0.259863332	-0.2506708895	-0.2452423133	-0.24127490561
7.600	-0.3414084999	-0.2946281146	-0.2735104608	-0.2599540660	-0.2507211681	-0.2455066473	-0.2423858399
7.800	-0.3418588622	-0.2947378855	-0.2731093677	-0.2599250557	-0.2507138050	-0.2459902193	-0.2433732573
8.000	-0.3422236399	-0.2947342232	-0.2726321767	-0.2597962431	-0.2507348469	-0.2467858162	-0.2436899219
8.200	-0.3425160684	-0.2949325379	-0.2720993729	-0.2595863332	-0.2509302234	-0.2475220377	-0.243950538
8.400	-0.3427475987	-0.2944649420	-0.2715295088	-0.2593120783	-0.2514395451	-0.2478692901	-0.2432590447
8.600	-0.3429280810	-0.2942321114	-0.2709393547	-0.2589887252	-0.2522039114	-0.2478281983	-0.2428276139
8.800	-0.3430659718	-0.2939520078	-0.2703440580	-0.2586306877	-0.2530538927	-0.2475559253	-0.2423243712
9.000	-0.3432418080	-0.2932933358	-0.2691910407	-0.2578727128	-0.2546270992	-0.2466981420	-0.2411931198
9.200	-0.3432911210	-0.2929325260	-0.2686562030	-0.2575200101	-0.2552547278	-0.2461931944	-0.24059960535
9.400	-0.3433208459	-0.2925603302	-0.2681619499	-0.2572607877	-0.2556957808	-0.2456617206	-0.2399938701
9.600	-0.3433346927	-0.2921825045	-0.2677158679	-0.2572191544	-0.2558296527	-0.2451130704	-0.2393961732
9.800	-0.3433357732	-0.2918038266	-0.2673236115	-0.2573954842	-0.2556615881	-0.2445534384	-0.2388111647
10.000	-0.3433266988	-0.2914282298	-0.2669885584	-0.2576278499	-0.2553606021	-0.2439871711	-0.2382458297
10.200	-0.3433096360	-0.2910588919	-0.2667114550	-0.2578277273	-0.2550236588	-0.2434174616	-0.2377060051
10.400	-0.3432864008	-0.2906983506	-0.2664902554	-0.2579703690	-0.2546853214	-0.2428467736	-0.2371964483
10.600	-0.3432585001	-0.2903485812	-0.2663203128	-0.2580530242	-0.2543593470	-0.2422770978	-0.2367208683
10.800	-0.3432271807	-0.2900110651	-0.2661949566	-0.2580809640	-0.2540521366	-0.2417101070	-0.2361919621
11.000	-0.3431934705	-0.2896868677	-0.2661063731	-0.2580626303	-0.2537668503	-0.2411472645	-0.2358814723
11.200	-0.3431582168	-0.2893766988	-0.2660465251	-0.2580073330	-0.2535048943	-0.2405898747	-0.2355202503
11.400	-0.3431221091	-0.2890809573	-0.2660079133	-0.2579240171	-0.2532665818	-0.2400391111	-0.2351983380
11.600	-0.3430857075	-0.2887997949	-0.2659840595	-0.2578205650	-0.2530514910	-0.2394960312	-0.2349150715
11.800	-0.3430494634	-0.2885331601	-0.2659697033	-0.2577035384	-0.2528586902	-0.2389615873	-0.2346691940
12.000	-0.3430137339	-0.2882808356	-0.2659607861	-0.2575781453	-0.2526869029	-0.2384366178	-0.2344589634
12.200	-0.3429787960	-0.2880424731	-0.2659543364	-0.2574483746	-0.2525346408	-0.2379218587	-0.2342822669
12.400	-0.3429448661	-0.2878176364	-0.2659482879	-0.2573171850	-0.2524002947	-0.2374179644	-0.2341367189
12.600	-0.3429121045	-0.2876058122	-0.2659412864	-0.2571866972	-0.2522822122	-0.2369255112	-0.2340197344
12.800	-0.3428806216	-0.2874064558	-0.2659325194	-0.2570583788	-0.2521787525	-0.2364450655	-0.2339285801
13.000	-0.3428504983	-0.2872189790	-0.2659215946	-0.2569332098	-0.2520883336	-0.2359772405	-0.2338603656
13.200	-0.3428217805	-0.2870427968	-0.2659083847	-0.2568117994	-0.2520094572	-0.2355228934	-0.2338119180
13.400	-0.3427944857	-0.2868773151	-0.2658929688	-0.2566944964	-0.2519407220	-0.2350836272	-0.2337793424
13.600	-0.3427686194	-0.2867219552	-0.2658755442	-0.2565814593	-0.2518808434	-0.2346635984	-0.2337562279
13.800	-0.3427441631	-0.2865761430	-0.2658563917	-0.2564727214	-0.2518286452	-0.2342784430	-0.2337247596
14.000	-0.3427210877	-0.2864393279	-0.2658358116	-0.2563682284	-0.2517830680	-0.2340028653	-0.2336081482
14.200	-0.3426993534	-0.2863109769	-0.2658141279	-0.2562678714	-0.2517431623	-0.2339243553	-0.2335169518
14.400	-0.3426789146	-0.2861905825	-0.2657916474	-0.2561715154	-0.2517080824	-0.2339302919	-0.2329619356
14.600	-0.3426597174	-0.2860776551	-0.2657686588	-0.2560789999	-0.2516770784	-0.2339608379	-0.2326012337
14.800	-0.3426417064	-0.2859717337	-0.2657454206	-0.2559901623	-0.2516494928	-0.2340026051	-0.2322466604
15.000	-0.3426248233	-0.2858723805	-0.2657221615	-0.2559048422	-0.2516247456	-0.2340509759	-0.2319014361
15.200	-0.3425942044	-0.2856917415	-0.2656763503	-0.2557441390	-0.2515818300	-0.2341586885	-0.2312428716
15.400	-0.3425803508	-0.2856097036	-0.2656540986	-0.2556684746	-0.2515628483	-0.2342152374	-0.2309301856
15.600	-0.3425673897	-0.2855327226	-0.2656324420	-0.2555957669	-0.2515450715	-0.2342722404	-0.2306287153
15.800	-0.3425552678	-0.2854604810	-0.2656114628	-0.2555259025	-0.2515282258	-0.2343289215	-0.2303385054
16.000	-0.3425439321	-0.2853926814	-0.2655912289	-0.2554587830	-0.2515120826	-0.2343846514	-0.2300595912
16.200	-0.3425333306	-0.2853290433	-0.2655717915	-0.2553943226	-0.2514964457	-0.2344389064	-0.2297920179
16.400	-0.3425234182	-0.2852693136	-0.2655531821	-0.2553324419	-0.2514811604	-0.2344912572	-0.2295358259
16.600	-0.3425141468	-0.2852132453	-0.2655354175	-0.2552730683	-0.2514660981	-0.2345413568	-0.2292910961
16.800	-0.3425054752	-0.2851606158	-0.2655185095	-0.2552161380	-0.2514511537	-0.2345889296	-0.2290579182
17.000	-0.3424973655	-0.2851112205	-0.2655024510	-0.2551615930	-0.2514362512	-0.2346337601	-0.2288364006
17.200	-0.3424760317	-0.2849805063	-0.2654592897	-0.2550117074	-0.2513912768	-0.2347503871	-0.2282427769
17.400	-0.3424639888	-0.2849062287	-0.2654344844	-0.2549227055	-0.2513608299	-0.2348125501	-0.2279066458
17.600	-0.3424585370	-0.2848724924	-0.2654231957	-0.2548813141	-0.2513454565	-0.2348389114	-0.2277563069
17.800	-0.3424534328	-0.2848408406	-0.2654126113	-0.2548419224	-0.2513299996	-0.2348621682	-0.2276175210
18.000	-0.3424441745	-0.2847832920	-0.2653934189	-0.2547688889	-0.2512989146	-0.2348995913	-0.2273731692
18.200	-0.3424399814	-0.2847571592	-0.2653847536	-0.2547351239	-0.2512833405	-0.2349139148	-0.2272666324
18.400	-0.3424323757	-0.2847096461	-0.2653691269	-0.2546727776	-0.2512522747	-0.2349342629	-0.2270817600
18.600	-0.3424289303	-0.2846880690	-0.2653620988	-0.2546440657	-0.2512368490	-0.2349405020	-0.2270020174
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22.400 -0.3424062257 -0.2845447186 -0.2653174877 -0.2544480327 -0.2511066293 -0.2349010597 -0.2265402771
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24.200 -0.3423933848 -0.2844628308 -0.2652950151 -0.2543349323 -0.2510021806 -0.2347540860 -0.2262939389
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26.800 -0.3423832688 -0.2844005055 -0.2652806337 -0.2542530401 -0.2509024158 -0.2344994626 -0.2260224499
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28.000 -0.3423802892 -0.2843838884 -0.2652772734 -0.2542327106 -0.2508728319 -0.2343956596 -0.2259063839
28.200 -0.3423798565 -0.2843815981 -0.2652768234 -0.2542299862 -0.2508686822 -0.2343798286 -0.2258875772
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Table 5: (1-8)³Π

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3.000	-0.2261764468	-0.1929540959	-0.1531878244	-0.1451898180	-0.1404821355	-0.1305712977	-0.1260689898	-0.1222284396
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3.400	-0.2403717447	-0.2004678096	-0.1661031142	-0.1569697493	-0.1509672646	-0.1412099744	-0.1339251667	-0.1330225214
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3.800	-0.2565499199	-0.2118942141	-0.1808420284	-0.1727125413	-0.1653399430	-0.1569111007	-0.1496602261	-0.1459893692
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4.200	-0.2717461026	-0.2243374111	-0.1944899251	-0.1893255653	-0.1806832844	-0.1736564014	-0.1664190541	-0.1613630929
4.400	-0.2786084519	-0.2304889834	-0.2006247533	-0.1974113424	-0.1882116796	-0.1818670067	-0.1746316105	-0.1690686194
4.600	-0.2848793314	-0.2364341981	-0.2063378822	-0.2050683677	-0.1954436788	-0.1897562850	-0.1825084066	-0.1765403438
4.800	-0.2905147615	-0.2420796243	-0.2126304770	-0.2111764648	-0.2022600529	-0.1971967241	-0.1899165270	-0.1836486611
5.000	-0.2954907459	-0.2473496384	-0.2192549409	-0.2159223458	-0.2085682552	-0.2040894178	-0.1967549155	-0.1902897279
5.200	-0.2998016873	-0.2521877224	-0.2252998517	-0.2201904200	-0.2143032162	-0.2103664032	-0.2029564411	-0.1963845080
5.400	-0.3034587515	-0.2565576966	-0.2306839825	-0.2240739480	-0.2194267688	-0.2159900788	-0.2084868674	-0.2018820831
5.600	-0.3064874011	-0.2604433738	-0.2353958419	-0.2276255578	-0.2239259817	-0.2209497226	-0.2133408074	-0.2067606305
5.800	-0.3089242142	-0.2638463345	-0.2394514083	-0.2308854629	-0.2278147029	-0.2252563554	-0.2175357749	-0.2110237429
6.000	-0.3108135154	-0.2667825053	-0.2428841955	-0.2338722711	-0.2311392843	-0.2289376127	-0.2211058342	-0.2146943744
6.200	-0.3122041906	-0.2692782957	-0.2457387809	-0.2365808303	-0.2339743446	-0.2320337185	-0.2240958274	-0.21765084295
6.800	-0.3138896894	-0.2744718855	-0.2513504349	-0.2430192972	-0.2402255368	-0.2383254255	-0.2301030186	-0.2242604666
7.000	-0.3137846050	-0.2755643283	-0.2524130658	-0.2446749400	-0.2416912583	-0.2396005523	-0.2312925282	-0.2256044859
7.400	-0.3128360738	-0.2770102438	-0.2536294744	-0.2474457752	-0.2438255929	-0.2412031706	-0.2327433285	-0.2273508018
7.600	-0.3120679289	-0.2774293834	-0.2538805841	-0.2486013485	-0.2445360355	-0.2416133387	-0.2330896649	-0.2278353000
7.800	-0.3111482661	-0.2776851765	-0.2539634187	-0.2496122754	-0.2450418800	-0.2418115852	-0.2323335907	-0.2281132013
8.000	-0.3101061762	-0.2778034107	-0.2539468259	-0.2504480687	-0.2453695561	-0.2418296705	-0.2332079337	-0.2282245420
8.200	-0.3089677399	-0.2778069926	-0.2539347681	-0.2510443277	-0.2455442680	-0.2416956951	-0.2330418160	-0.2282139042
8.400	-0.3077562493	-0.2777160259	-0.2540631386	-0.2512986848	-0.2455888429	-0.2414344163	-0.2327610167	-0.2281363427
8.600	-0.3064925092	-0.2775479190	-0.2543890028	-0.2511843864	-0.2455232769	-0.2410674137	-0.2323876542	-0.2280632193
8.800	-0.3051950874	-0.2773175243	-0.2548341996	-0.2508073622	-0.2453647573	-0.2406135743	-0.2319410018	-0.2280790735
9.000	-0.3038805968	-0.2770372797	-0.2553107081	-0.2502812521	-0.2451278365	-0.2400893006	-0.2314375096	-0.2282471581
9.200	-0.3025638843	-0.2767173635	-0.2557732786	-0.2496750227	-0.2448247317	-0.2395087873	-0.2308911807	-0.2285653144
9.400	-0.3012582366	-0.2763658773	-0.2562032293	-0.2490292948	-0.2444665678	-0.2388842784	-0.2303140614	-0.2289775212
9.800	-0.2987262428	-0.2755914569	-0.2569435179	-0.2477199374	-0.2436130751	-0.2375438598	-0.2298610716	-0.2290972647
10.000	-0.2975196933	-0.2751763565	-0.2572532036	-0.2470914640	-0.2431336185	-0.2368447771	-0.2302516259	-0.2284796103
10.200	-0.2963638782	-0.2747459536	-0.2575247587	-0.2464975443	-0.2426271138	-0.2361358665	-0.2305851590	-0.2278593264
10.400	-0.2952655415	-0.2743017835	-0.2577604323	-0.2459471871	-0.2420994600	-0.2354232729	-0.2308500740	-0.2272416813
10.600	-0.2942301085	-0.2738450434	-0.2579624630	-0.2454466070	-0.2415563421	-0.2347128107	-0.2310398984	-0.2266300651
10.800	-0.2932616436	-0.2733769687	-0.2581328951	-0.2449993571	-0.2410032146	-0.2340104627	-0.2311509219	-0.2260268739
11.000	-0.2923627895	-0.2728991054	-0.2582734503	-0.2446064060	-0.2404452773	-0.2333232010	-0.2311806485	-0.2254336714
11.200	-0.2915347772	-0.2724135617	-0.2583854986	-0.2442663000	-0.2398875369	-0.2326608937	-0.2311254259	-0.2248513468
11.400	-0.2907774552	-0.2719231329	-0.2584700529	-0.2439754199	-0.2393349147	-0.2320410638	-0.2309751521	-0.2242801873
11.600	-0.2900893906	-0.2714313415	-0.2585278161	-0.2437283859	-0.2387923445	-0.2314966542	-0.2307049220	-0.2237200217
11.800	-0.2894680351	-0.2709423476	-0.2585592542	-0.2435186037	-0.2382647876	-0.2310556591	-0.2302948147	-0.2231703569
12.000	-0.2889099301	-0.2704607780	-0.2585646903	-0.2433388485	-0.2377571133	-0.2306799765	-0.2297905386	-0.2226305362
12.200	-0.2884109541	-0.2699914824	-0.2585444411	-0.2431818148	-0.2372735814	-0.2303112786	-0.2292572699	-0.2220998831
12.400	-0.2879665570	-0.2695392459	-0.2584989294	-0.2430405313	-0.2368188770	-0.2299237671	-0.2287268111	-0.2215778276
12.600	-0.2875719843	-0.2691084951	-0.2584288379	-0.2429086559	-0.2363950975	-0.2295119393	-0.2282099199	-0.2210640296
12.800	-0.2872224684	-0.2687030366	-0.2583352259	-0.2427806229	-0.2360042332	-0.2290788000	-0.2277082433	-0.2205584345
13.000	-0.2869133735	-0.2683258354	-0.2582196265	-0.2426517068	-0.2356467480	-0.2286318846	-0.2272184708	-0.2200612985
13.200	-0.2866403096	-0.2679788964	-0.2580840976	-0.2425180197	-0.2353219540	-0.2281818875	-0.2267337714	-0.2195731645
13.400	-0.2863991999	-0.2676631877	-0.2579311938	-0.2423764529	-0.2350282207	-0.2277415366	-0.2262449517	-0.2190948003
13.600	-0.2861863111	-0.2673787187	-0.2577639026	-0.2422246348	-0.2347632641	-0.2273235520	-0.2257424608	-0.2186271238
13.800	-0.2859982701	-0.2671246501	-0.2575855054	-0.2420608563	-0.2345244144	-0.2269377812	-0.2252192236	-0.2181711139
14.000	-0.2858320683	-0.2668994408	-0.2573994142	-0.2418840071	-0.2343088554	-0.2265890707	-0.2246727939	-0.2177277382
14.200	-0.2856850206	-0.2667010770	-0.2572089941	-0.2416935148	-0.2341137858	-0.2262773489	-0.2241052324	-0.2172978755
14.400	-0.2855547726	-0.2665272387	-0.2570174151	-0.2414892818	-0.2339365318	-0.2259994744	-0.2235213596	-0.2168823050
14.600	-0.2854392436	-0.2663754837	-0.2568275104	-0.2412712640	-0.2337746012	-0.2257511495	-0.2229268263	-0.21648616341
14.800	-0.2853366128	-0.2662433725	-0.2566417122	-0.2410412246	-0.2336257083	-0.2255281004	-0.2223270332	-0.2160963133
15.000	-0.2852452939	-0.2661285612	-0.2564619956	-0.2407990547	-0.2334877788	-0.2253265418	-0.2217267035	-0.2157266407
15.200	-0.2851639025	-0.2660288740	-0.2562898893	-0.2405463429	-0.2333589293	-0.2251432733	-0.2211298179	-0.2153727654
15.400	-0.2850912238	-0.2659423347	-0.2561264846	-0.2402845057	-0.2332374547	-0.2249756307	-0.2205397049	-0.2150347112
15.600	-0.2850262081	-0.2658671739	-0.2559724953	-0.2400151094	-0.2331217995	-0.2248214022	-0.2199591523	-0.2147123978
15.800	-0.2849679354	-0.2658018349	-0.2558283009	-0.2397398165	-0.2330105395	-0.2246787440	-0.2193905123	-0.2144056674
16.200	-0.2848685290	-0.2656953470	-0.2555695060	-0.2391784767	-0.2327960256	-0.2244221907	-0.2182966524	-0.2138380074
16.400	-0.2848260899	-0.2656520013	-0.2554545256	-0.2388959439	-0.2326903872	-0.2243058796	-0.2177745985	-0.2135765382
16.600	-0.2847877598	-0.2656140376	-0.2553486710	-0.2386144885	-0.2325843482	-0.2241962297	-0.2172708571	-0.21332995801
16.800	-0.2847530767	-0.2655807100	-0.2552514705	-0.2383358087	-0.2324768686	-0.2240924217	-0.2167864814	-0.2130968190
17.000	-0.2847216327	-0.2655513776	-0.2551624054	-0.2380615403	-0.2323669600	-0.2239937490	-0.2163223497	-0.2128779385
17.200	-0.2846930727	-0.2655254916	-0.2550809248	-0.2377932360	-0.2322536831	-0.2238995916	-0.2158791731	-0.2126726098
17.400	-0.2846678079	-0.2655025850	-0.2550064819	-0.2375323605	-0.2321631671	-0.2238094059	-0.2154575037	-0.2124804875
17.600	-0.2846434005	-0.2654822590	-0.2549385297	-0.2372802570	-0.2320136144	-0.2237227029	-0.2150577124	-0.2123011953
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18.000	-0.2846019919	-0.2654480327	-0.2548200282	-0.2368070294	-0.2317507292	-0.2235580349	-0.2143244375	-0.2119794091
18.200	-0.2845838687	-0.2654335904	-0.2547685054	-0.2365878016	-0.2316093843	-0.2234792995	-0.2139908426	-0.2118359382
18.400	-0.2845672411	-0.2654206334	-0.2547215395	-0.2363810953	-0.2314610323	-0.2234024943	-0.2136789141	-0.2117033408

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28.000 -0.2843516465 -0.2652809317 -0.2542072999 -0.2340611726 -0.2256261669 -0.2177017887 -0.2097876119 -0.2084065451
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Table 6: $(1-5)^3\Delta$

1	
2	
3	
4	
5	3.000 -0.1874544242 -0.1383253389 -0.1330198033 -0.1254704690 -0.1209356157
6	3.200 -0.1894636002 -0.1426692354 -0.1362658258 -0.1299596883 -0.1252474624
7	3.400 -0.1933438692 -0.1486823651 -0.1415172894 -0.1357546733 -0.1313222087
8	3.600 -0.1983140824 -0.1556488972 -0.1481095408 -0.1418875040 -0.1384185486
9	3.800 -0.2039009972 -0.1631408730 -0.1556225502 -0.1479016573 -0.1460405658
10	4.000 -0.2097988580 -0.1708709703 -0.1636396914 -0.1544499749 -0.1531330923
11	4.200 -0.2157949919 -0.1786226234 -0.1718152057 -0.1623054533 -0.1588297874
12	4.400 -0.2217298096 -0.1862194466 -0.1798940835 -0.1701682081 -0.1646591658
13	4.600 -0.2274759384 -0.1935143171 -0.1876837394 -0.1777525355 -0.1711236316
14	4.800 -0.2329289625 -0.2003877772 -0.1950361258 -0.1849152903 -0.1777950910
15	5.000 -0.2380050166 -0.2067496757 -0.2018417416 -0.1915552595 -0.1843788572
16	5.200 -0.2426415131 -0.2125403006 -0.2080276035 -0.1976056709 -0.1907839095
17	5.400 -0.2467980407 -0.2177292058 -0.2135546472 -0.2030311713 -0.1965533965
18	5.600 -0.2504557809 -0.2223115184 -0.2184132138 -0.2078235571 -0.2016542953
19	5.800 -0.2536150560 -0.2263025888 -0.2226171470 -0.2119962288 -0.2060993768
20	6.000 -0.2562916464 -0.2297322049 -0.2261975886 -0.2155783448 -0.2099199648
21	6.200 -0.2585126776 -0.2326392920 -0.2291972930 -0.2186094320 -0.2131585000
22	6.400 -0.2628067575 -0.2386688724 -0.2352191045 -0.2248599313 -0.2198752016
23	7.000 -0.2635814536 -0.2399298510 -0.2364071211 -0.2261530486 -0.2212807926
24	7.400 -0.2643803818 -0.2415748692 -0.2378432629 -0.2278156397 -0.2231183509
25	7.600 -0.2644759372 -0.2420309724 -0.2381752704 -0.2282613226 -0.2236308781
26	7.800 -0.2644120326 -0.2422855088 -0.2382992366 -0.2284948447 -0.2239202753
27	8.000 -0.2642175291 -0.2423664904 -0.2382473492 -0.2285455586 -0.2240179389
28	8.200 -0.2639184802 -0.2422988413 -0.2380482065 -0.2284395645 -0.2239519866
29	8.400 -0.2635382093 -0.2421045842 -0.2377270800 -0.2281999763 -0.2237475121
30	8.600 -0.2630974117 -0.2418030795 -0.2373062278 -0.2278472180 -0.2234268682
31	8.800 -0.2626142625 -0.2414112830 -0.2368051586 -0.2273993202 -0.2230099330
32	9.000 -0.2621045426 -0.2409440434 -0.2362409122 -0.2268722163 -0.2225143848
33	9.200 -0.2615817393 -0.2404143723 -0.2356282928 -0.2262800076 -0.2219559441
34	9.400 -0.2610571760 -0.2398337292 -0.2349800913 -0.2256352155 -0.2213486093
35	9.600 -0.2600380009 -0.2385591793 -0.2336191707 -0.2242312808 -0.2200359073
36	10.000 -0.2595564223 -0.2378827070 -0.2329236072 -0.2234910445 -0.2193518158
37	10.200 -0.2590994915 -0.2371905247 -0.2322270726 -0.2227363250 -0.2186617805
38	10.400 -0.2586699437 -0.2364897777 -0.2315348285 -0.2219744024 -0.2179742915
39	10.600 -0.2582693438 -0.2357871920 -0.2308510306 -0.2212118711 -0.2172973312
40	10.800 -0.2578983038 -0.2350891358 -0.2301788415 -0.2204547318 -0.2166385675
41	11.000 -0.2575566579 -0.2344016171 -0.2295205276 -0.2197084475 -0.2160054937
42	11.200 -0.2572436511 -0.2337302639 -0.2288775937 -0.2189780141 -0.2154054993
43	11.400 -0.2569580894 -0.2330802501 -0.2282509013 -0.2182680292 -0.2148457636
44	11.600 -0.2566984769 -0.2324562092 -0.2276408204 -0.2175827646 -0.2143328389
45	11.800 -0.2564631319 -0.2318621171 -0.2270473903 -0.2169262720 -0.2138718135
46	12.000 -0.2562502729 -0.2313011887 -0.2264704822 -0.2163025126 -0.2134650558
47	12.200 -0.2560580933 -0.2307757803 -0.2259099481 -0.2157155351 -0.2131108760
48	12.400 -0.2558848118 -0.2302873451 -0.2253657419 -0.2151696832 -0.2128027636
49	12.600 -0.2557287151 -0.2298364310 -0.2248379804 -0.2146697498 -0.2125297546
50	12.800 -0.2555881739 -0.2294227420 -0.2243269621 -0.2142208759 -0.2122780292
51	13.000 -0.2554616715 -0.2290452500 -0.2238331280 -0.2138277472 -0.2120334448
52	13.200 -0.2553478032 -0.2287023487 -0.2233569986 -0.2134928031 -0.2117846811
53	13.400 -0.2552452816 -0.2283919996 -0.2228990837 -0.2132140431 -0.2115260842
54	13.600 -0.2551529336 -0.2281119033 -0.2224598058 -0.2129844101 -0.2112584673
55	13.800 -0.2550696960 -0.2278596197 -0.2220394387 -0.2127937316 -0.2109870185
56	14.000 -0.2549946164 -0.2276326897 -0.2216380583 -0.2126316722 -0.2107181233
57	14.200 -0.2549268328 -0.2274287060 -0.2212555255 -0.2124896636 -0.2104571815
58	14.400 -0.2548655782 -0.2272453800 -0.2208914938 -0.2123614052 -0.2102079137
59	14.600 -0.2548101626 -0.2270805675 -0.2205454168 -0.2122425761 -0.2099724800
60	14.800 -0.2547599732 -0.2269322950 -0.2202165744 -0.2121303434 -0.2097518586
	15.000 -0.2547144628 -0.2267987620 -0.2199041229 -0.2120229231 -0.2095462124
	15.200 -0.2546731458 -0.2266783484 -0.2196071144 -0.2119192332 -0.2093551760
	15.400 -0.2546355840 -0.2265695940 -0.2193245359 -0.2118186590 -0.2091780553
	15.600 -0.2546013956 -0.2264712006 -0.2190553452 -0.2117208793 -0.2090139686
	15.800 -0.2545702350 -0.2263820134 -0.2187984982 -0.2116257645 -0.2088619430
	16.200 -0.2545158097 -0.2262272957 -0.2183177629 -0.2114434996 -0.2085901183
	16.400 -0.2544920308 -0.2261600689 -0.2180919435 -0.2113564540 -0.2084684075
	16.600 -0.2544702441 -0.2260986318 -0.2178746239 -0.2112722204 -0.2083549804
	16.800 -0.2544502574 -0.2260423679 -0.2176649855 -0.2111908625 -0.2082490401
	17.000 -0.2544319000 -0.2259907368 -0.2174622730 -0.2111124269 -0.2081498625
	17.600 -0.2543851457 -0.2258591572 -0.2168890841 -0.2108948080 -0.2078867717
	18.200 -0.2543484138 -0.2257551872 -0.2163569386 -0.2107033022 -0.2076653743
	18.400 -0.2543379586 -0.2257253891 -0.2161866370 -0.2106450335 -0.2075992029
	18.800 -0.2543192815 -0.2256718259 -0.2158546205 -0.2105363898 -0.2074769236
	19.000 -0.2543109372 -0.2256477247 -0.2156923580 -0.2104858410 -0.2074205331
	19.200 -0.2543031835 -0.2256252131 -0.2155322766 -0.2104376875 -0.2073671992
	19.400 -0.2542959725 -0.2256041621 -0.2153741747 -0.2103918349 -0.2074067949

1
2
3 19.600 -0.2542892586 -0.2255844550 -0.2152178693 -0.2103481866 -0.2072696575
4 19.800 -0.2542830033 -0.2255659886 -0.2150632072 -0.2103066508 -0.2072255490
5 20.000 -0.2542771706 -0.2255486695 -0.2149100459 -0.2102671336 -0.2071846967
6 20.200 -0.2542717274 -0.2255324124 -0.2147582651 -0.2102295439 -0.2071472661
7 20.400 -0.2542666433 -0.2255171380 -0.2146077546 -0.2101937922 -0.2071134535
8 20.600 -0.2542618906 -0.2255027766 -0.2144584220 -0.2101597911 -0.2070834609
9 20.800 -0.2542574445 -0.2254892648 -0.2143101858 -0.2101274586 -0.2070574692
10 21.200 -0.2542493817 -0.2254645544 -0.2140167269 -0.2100674741 -0.2070178156
11 21.600 -0.2542422949 -0.2254425952 -0.2137269213 -0.2100132277 -0.2069939197
12 22.000 -0.2542360463 -0.2254230350 -0.2134404364 -0.2099641554 -0.2069832119
13 24.000 -0.2542139399 -0.2253521997 -0.2120523853 -0.2097800993 -0.2070193803
14 24.200 -0.2542123484 -0.2253470021 -0.2119175329 -0.2097661611 -0.2070255573
15 24.400 -0.2542108413 -0.2253420723 -0.2117834185 -0.2097528753 -0.2070317515
16 25.000 -0.2542067813 -0.2253287381 -0.2113856533 -0.2097166082 -0.2070500380
17 25.800 -0.2542022744 -0.2253138783 -0.2108666323 -0.2096755517 -0.2070728345
18 26.000 -0.2542012853 -0.2253106106 -0.2107390446 -0.2096664219 -0.2070781673
19 26.200 -0.2542003438 -0.2253075039 -0.2106123735 -0.2096576988 -0.2070833413
20 26.400 -0.2541994495 -0.2253045488 -0.2104866519 -0.2096493663 -0.2070883571
21 26.600 -0.2541985970 -0.2253017349 -0.2103619086 -0.2096414009 -0.2070932112
22 26.800 -0.2541977859 -0.2252990598 -0.2102381771 -0.2096337868 -0.2070979057
23 27.000 -0.2541970131 -0.2252965114 -0.2101154928 -0.2096265051 -0.2071024417
24 27.200 -0.2541962763 -0.2252940836 -0.2099938968 -0.2096195388 -0.2071068205
25 27.400 -0.2541955735 -0.2252917729 -0.2098734292 -0.2096128700 -0.2071110451
26 27.600 -0.2541949040 -0.2252895702 -0.2097541455 -0.2096064761 -0.2071151189
27 27.800 -0.2541942643 -0.2252874726 -0.2096362079 -0.2096002259 -0.2071190443
28 28.000 -0.2541936535 -0.2252854727 -0.2095946780 -0.2095190939 -0.2071228239
29 28.200 -0.2541930705 -0.2252835653 -0.2095890313 -0.2094036506 -0.2071264635
30 28.400 -0.2541925135 -0.2252817467 -0.2095836612 -0.2092895440 -0.2071299654
31 28.600 -0.2541919806 -0.2252800124 -0.2095785226 -0.2091768692 -0.2071333323
32 28.800 -0.2541914718 -0.2252783570 -0.2095736026 -0.2090657011 -0.2071365699
33 29.000 -0.2541909844 -0.2252767780 -0.2095688867 -0.2089561066 -0.2071396794
34 29.200 -0.2541905182 -0.2252752710 -0.2095643678 -0.2088481631 -0.2071426653
35 30.000 -0.2541888423 -0.2252698891 -0.2095480677 -0.2084345698 -0.2071534252
36 30.200 -0.2541884662 -0.2252686914 -0.2095443980 -0.2083361709 -0.2071558299
37 30.600 -0.2541877592 -0.2252664494 -0.2095374942 -0.2081460618 -0.2071603021
38 30.800 -0.2541874275 -0.2252654033 -0.2095342511 -0.2080545619 -0.2071623675
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The following tables display the potential energy curves of **NaCs** for the seven lowest $^1\Sigma$ states, the seven lowest $^1\Pi$ states, and the five lowest $^1\Delta$ states (Tables 1 to 3) and for the six lowest $^3\Sigma$ states, the eight lowest $^3\Pi$ states, and the five lowest $^3\Delta$ states (Tables 4 to 6). Distances and energies are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 219474.63137 cm^{-1} . The curves are computed using the large basis set for both atoms, as described in the accompanying paper. The origin of energies is defined at the ionisation limit for both atoms.

Table 1: (1-7) $^1\Sigma^+$

3.200	-0.2853503232	-0.2229515835	-0.2066876746	-0.1744627671	-0.1690700587	-0.1623182921	-0.1578038995
3.400	-0.2846283517	-0.2221072479	-0.2036896657	-0.1743867905	-0.1693907077	-0.1618926441	-0.1577578910
3.600	-0.2869439556	-0.2239335871	-0.2041991696	-0.1777414565	-0.1728067195	-0.1642990828	-0.1597623584
3.800	-0.2911014167	-0.2274361396	-0.2071629720	-0.1831905977	-0.1778428406	-0.1685156754	-0.1630862086
4.200	-0.3023210564	-0.2373060566	-0.2180023301	-0.1963066686	-0.1903517223	-0.1796260850	-0.1727698745
4.600	-0.3149458901	-0.2492560710	-0.2315155402	-0.2097049268	-0.2037785586	-0.1920109799	-0.1855955464
4.800	-0.3211519574	-0.2556008465	-0.2378858069	-0.2164381867	-0.2102279103	-0.1982723669	-0.1922971427
5.000	-0.3270315675	-0.2619358511	-0.2436483647	-0.2230673182	-0.2163773185	-0.2044027586	-0.1987307281
5.200	-0.3324433707	-0.2680544428	-0.2487840900	-0.2294050813	-0.2221891782	-0.2102723019	-0.2047680588
5.400	-0.3372904029	-0.2737940271	-0.2533474825	-0.2352932970	-0.2276142828	-0.2157702352	-0.2103456136
5.600	-0.3415182178	-0.2790530756	-0.2574026216	-0.2406302411	-0.2326021156	-0.2208175085	-0.2154217232
5.800	-0.3451087432	-0.2837822120	-0.2610021139	-0.2453660527	-0.2371177613	-0.2253688901	-0.2199703384
6.000	-0.3480722196	-0.2879687620	-0.2641856074	-0.2494911149	-0.2411476382	-0.2294077449	-0.2239845687
6.200	-0.3504391469	-0.2916240481	-0.2669835654	-0.2530205651	-0.2446970377	-0.2329389126	-0.2274757593
6.400	-0.3522532776	-0.2947746920	-0.2694211763	-0.2560077920	-0.2477847660	-0.2359824084	-0.2304703828
6.600	-0.3535659881	-0.2974566836	-0.2715212734	-0.2584921603	-0.2504376524	-0.2385681873	-0.2330049434
6.800	-0.3544320287	-0.2997111091	-0.2733061601	-0.2605382432	-0.2526860135	-0.2407320432	-0.2351217886
7.000	-0.3549064846	-0.3015809605	-0.2747985044	-0.2622088861	-0.2545603690	-0.2425124604	-0.2368658351
7.200	-0.3550427003	-0.3031087887	-0.2760215223	-0.2635663219	-0.2560895364	-0.2439483681	-0.2382822940
7.400	-0.3548909876	-0.3043351181	-0.2769987250	-0.2646694057	-0.2573001439	-0.2450776021	-0.2394150607
7.600	-0.3544978955	-0.3052974933	-0.2775345555	-0.2655711098	-0.2582174238	-0.2459359892	-0.2403056587
7.800	-0.3539058701	-0.3060300132	-0.2783084118	-0.2663162672	-0.2588668245	-0.2465568340	-0.2409923341
8.200	-0.3522741518	-0.3069241290	-0.2789043429	-0.2674680280	-0.2594731430	-0.2472054720	-0.2418858330
8.400	-0.3512991700	-0.3071364912	-0.2789845679	-0.2679170897	-0.2594909047	-0.2472863274	-0.2421459469
8.600	-0.3502551828	-0.3072209530	-0.2789433494	-0.2682980204	-0.2593604585	-0.2472360732	-0.2423082955
8.800	-0.3491658843	-0.3071953311	-0.2787966934	-0.2686175146	-0.2591123537	-0.2470753243	-0.2423868211
9.000	-0.3480520117	-0.3070748498	-0.2785593361	-0.2688799221	-0.2587750552	-0.2468228205	-0.2423918783
9.200	-0.3469316111	-0.3068723843	-0.2782449611	-0.2690883485	-0.2583744454	-0.2464957718	-0.2423313488
9.400	-0.3458202354	-0.3065986835	-0.2778664377	-0.2692451874	-0.2579336871	-0.2461102897	-0.2422115596
9.600	-0.3447311264	-0.3062626020	-0.2774361102	-0.2693522912	-0.2574732928	-0.2456819141	-0.2420378050
9.800	-0.3436753583	-0.3058713366	-0.2769660990	-0.2694109098	-0.2570112375	-0.2452262829	-0.2418144346
10.000	-0.3426619491	-0.3054306603	-0.2764685972	-0.2694214591	-0.2565631058	-0.2447599177	-0.2415447564
10.200	-0.3416979751	-0.3049451810	-0.2759561408	-0.2693832563	-0.2561421817	-0.2443010151	-0.2412306556
10.400	-0.3407886800	-0.3044186094	-0.2754417763	-0.2692943298	-0.2557595633	-0.2438699026	-0.2408726973
10.600	-0.3399376115	-0.3038540380	-0.2749389868	-0.2691514422	-0.2554242345	-0.2434884443	-0.2404707312
10.800	-0.3391467735	-0.3032542046	-0.2744611920	-0.2689505992	-0.2551431394	-0.2431777912	-0.2400256324
11.000	-0.3384168028	-0.3026217240	-0.2740206493	-0.2686881423	-0.2549212259	-0.2429545373	-0.2395413391
11.200	-0.3377471566	-0.3019592592	-0.2736268873	-0.2683623805	-0.2547614640	-0.2428267787	-0.2390260152
11.400	-0.3371363097	-0.3012696303	-0.2732852110	-0.2679751321	-0.2546648365	-0.2427918381	-0.2384914796
11.600	-0.3365819606	-0.3005558650	-0.2729961011	-0.2675323703	-0.2546303229	-0.2428369783	-0.2379515761
11.800	-0.3360812078	-0.2998211908	-0.2727559136	-0.2670436080	-0.2546549322	-0.2429429751	-0.2374203634
12.000	-0.3356307425	-0.2990690031	-0.2725584498	-0.2665203692	-0.2547338139	-0.2430889463	-0.2369103227
12.200	-0.3352269914	-0.2983027954	-0.2723965867	-0.2659746192	-0.2548604908	-0.2432562877	-0.2364050910
12.400	-0.3348662653	-0.2975261072	-0.2722634279	-0.2654176723	-0.2550272031	-0.2434306913	-0.2359858520
12.600	-0.3345448564	-0.2967424484	-0.2721528492	-0.2648597005	-0.2552253452	-0.2436024398	-0.2355766821
12.800	-0.3342591495	-0.2959552604	-0.2720596611	-0.2643096626	-0.2554458580	-0.2437657344	-0.2352011385
13.000	-0.3340056620	-0.2951678634	-0.2719795250	-0.263754720	-0.2556795926	-0.2439176947	-0.2348564271
13.200	-0.3337811097	-0.2943834441	-0.2719088049	-0.2632642636	-0.2559175454	-0.2440574118	-0.2345398653
13.400	-0.3335824322	-0.2936050155	-0.2718444080	-0.2627826740	-0.2561509213	-0.2441851710	-0.2342491610
13.600	-0.3334068064	-0.2928354342	-0.2717836530	-0.2623371215	-0.2563711412	-0.2443019068	-0.2339823722
13.800	-0.3332516506	-0.2920773815	-0.2717241584	-0.2619340067	-0.2565697685	-0.2444088393	-0.2337377706
14.000	-0.3331146293	-0.2913333720	-0.2716637688	-0.2615797126	-0.2567385417	-0.2445072461	-0.2335137414
14.200	-0.3329936337	-0.2906057603	-0.2716005012	-0.2612802850	-0.2568697194	-0.2445983425	-0.2333087480
14.400	-0.3328867758	-0.2898967427	-0.2715325167	-0.2610405404	-0.2569569323	-0.2446832223	-0.2331212874
14.600	-0.3327923707	-0.2892083620	-0.2714581000	-0.2608626431	-0.2569965599	-0.2447628307	-0.2329499050
15.000	-0.3326351263	-0.2879009015	-0.2712837518	-0.2606803133	-0.2569395584	-0.2449093055	-0.2328598843
15.200	-0.3325697896	-0.2872851091	-0.2711810738	-0.2606596930	-0.2568563664	-0.2449773893	-0.2325186962
15.800	-0.3324149026	-0.2856052474	-0.2707984705	-0.2607523665	-0.2564986511	-0.2451662045	-0.2321870108
16.400	-0.3323059115	-0.2841934484	-0.2702942381	-0.2609054274	-0.2561184806	-0.2453375535	-0.2319290345
16.600	-0.3322770838	-0.2837836113	-0.2701000124	-0.2609461690	-0.2560030455	-0.2453916103	-0.2318559936
16.800	-0.3322512756	-0.2834035959	-0.2698942563	-0.2609768615	-0.2558953983	-0.2454443180	-0.2317884585
17.000	-0.3322281285	-0.2830526393	-0.2696784530	-0.2609954181	-0.2557958912	-0.2454957405	-0.2317259064
17.200	-0.3322073296	-0.2827297185	-0.2694544335	-0.2610001015	-0.2557045587	-0.2455459479	-0.2316679326

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18.200 -0.3321300780 -0.2814870037 -0.2682918547 -0.2607674624 -0.2553588937 -0.2457798497 -0.2314344655
18.400 -0.3321186690 -0.2813017183 -0.2680683784 -0.2606621301 -0.2553086355 -0.2458233200 -0.2313971392
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24.600 -0.3319921756 -0.2795433388 -0.2657495764 -0.2548933430 -0.2515004298 -0.2465127485 -0.2311401323
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26.200 -0.3319835230 -0.2794860681 -0.2656992562 -0.2548808568 -0.2493282778 -0.2462492795 -0.2312563473
26.400 -0.3319826539 -0.2794811896 -0.2656950608 -0.2548798101 -0.2491108595 -0.2461756234 -0.2312726625
26.600 -0.3319818237 -0.2794766384 -0.2656911856 -0.2548788403 -0.2489099045 -0.2460886153 -0.2312891570
26.800 -0.3319810301 -0.2794723735 -0.2656875990 -0.2548779408 -0.2487265578 -0.2459871028 -0.2313057589
28.000 -0.3319769211 -0.2794510208 -0.2656708194 -0.2548736751 -0.2479992558
29.800 -0.3319723546 -0.2794261253 -0.2656553552 -0.2548695899 -0.2476419135
30.000 -0.3319719366 -0.2794236538 -0.2656540942 -0.2548692432 -0.2476244862
30.200 -0.3319715344 -0.2794212321 -0.2656529021 -0.2548689130 -0.2476092499
30.400 -0.3319711459 -0.2794188578 -0.2656517744 -0.2548685973 -0.2475958752
30.600 -0.3319707709 -0.2794165322 -0.2656507069 -0.2548682948 -0.2475840879
30.800 -0.3319704095 -0.2794142544 -0.2656496949 -0.2548680056 -0.2475736653

Table 2: (1-7)¹Π

3.800	-0.2255299645	-0.2153160497	-0.1918317905	-0.1676575479	-0.1638273929	-0.1610960812	-0.1501985083
4.000	-0.2288463200	-0.2202201253	-0.1974984765	-0.1733211203	-0.1680470715	-0.1665102526	-0.1558602906
4.200	-0.2325323514	-0.2258380871	-0.2030341591	-0.1797289895	-0.1740097307	-0.1709047434	-0.1623437474
4.600	-0.2404443030	-0.2377037085	-0.2132528471	-0.1934289979	-0.1876792386	-0.1789709061	-0.1757060878
4.800	-0.2451656285	-0.2427465087	-0.2179629111	-0.2001496852	-0.1944729022	-0.1847411829	-0.1807887057
5.000	-0.2505842674	-0.2466831443	-0.2224836870	-0.2064678122	-0.2009680150	-0.1913054603	-0.1870168706
5.200	-0.2558942907	-0.2501578540	-0.2268610888	-0.2122297319	-0.2070248497	-0.1976457302	-0.1934132572
5.400	-0.2608015920	-0.2533537624	-0.2311009037	-0.2173721039	-0.2125453672	-0.2035041426	-0.1993056035
5.600	-0.2652151765	-0.2562916947	-0.2351636399	-0.2219140363	-0.2174713225	-0.2087909582	-0.2045823165
5.800	-0.2691047900	-0.2589648054	-0.2389847957	-0.2259184467	-0.2217835122	-0.2134799538	-0.2092108767
6.000	-0.2724709658	-0.2613625304	-0.2425049006	-0.2294461330	-0.2254998164	-0.2175806879	-0.2131994400
6.200	-0.2753336626	-0.2634771497	-0.2456879969	-0.2325337153	-0.2286658172	-0.2211228506	-0.2165830452
6.400	-0.2777255452	-0.2653063118	-0.2485241106	-0.2351999679	-0.2313385509	-0.2241466452	-0.2194141950
6.600	-0.2796871307	-0.2668538216	-0.2510230801	-0.2374608101	-0.2335731074	-0.2266962389	-0.2217528438
6.800	-0.2812630383	-0.2681293082	-0.2532067581	-0.2393377556	-0.2354179680	-0.2288166055	-0.2236596491
7.000	-0.2824991319	-0.2691472299	-0.2551026923	-0.2408589464	-0.2369158480	-0.2305517001	-0.2251910999
7.200	-0.2834404432	-0.2699256093	-0.2567398444	-0.2420570067	-0.2381055792	-0.2319435803	-0.2263981521
7.400	-0.2841297611	-0.2704848043	-0.2581460355	-0.2429665300	-0.2390232734	-0.2330318147	-0.2273258231
7.600	-0.2846067687	-0.2708465250	-0.2593466060	-0.2436221449	-0.2397027316	-0.2338531285	-0.2280136595
7.800	-0.2849075768	-0.2710331493	-0.2603638016	-0.2440572422	-0.2401754699	-0.2344412472	-0.2284961694
8.200	-0.2851062269	-0.2709719940	-0.2619205799	-0.2443891950	-0.2406150386	-0.2350380375	-0.2289611123
8.400	-0.2850575332	-0.2707701913	-0.2624881732	-0.2443416904	-0.2406329554	-0.2350997784	-0.2289914802
8.600	-0.2849398321	-0.2704855588	-0.2629284283	-0.2441848007	-0.2405463047	-0.2350348472	-0.2289130780
8.800	-0.2847712056	-0.2701424344	-0.2632471501	-0.2439401886	-0.2403745846	-0.2348636595	-0.2287415012
9.000	-0.2845667035	-0.2697659091	-0.2634470686	-0.2436272001	-0.2401348982	-0.2346045346	-0.2284896851
9.200	-0.2843386286	-0.2693812506	-0.2635285928	-0.2432629717	-0.2398419931	-0.2342738687	-0.2281684649
9.400	-0.2840968365	-0.2690122212	-0.2634916077	-0.2428625019	-0.2395083025	-0.2338862742	-0.2277869943
9.600	-0.2838490417	-0.2686781654	-0.2633384533	-0.2424386727	-0.2391440671	-0.2334546728	-0.2273531324
9.800	-0.2836011258	-0.2683908216	-0.2630771411	-0.2420022591	-0.2387575319	-0.2329904104	-0.2268740645
10.000	-0.2833574298	-0.2681529333	-0.2627227164	-0.2415618867	-0.2383552266	-0.2325033420	-0.2263564594
10.200	-0.2831210150	-0.2679598735	-0.2622956555	-0.2411240434	-0.2379423233	-0.2320019027	-0.2258067181
10.400	-0.2828939361	-0.2678031941	-0.2618182968	-0.2406931431	-0.2375230036	-0.2314932138	-0.2252310936
10.600	-0.2826774396	-0.2676739026	-0.2613116447	-0.2402717253	-0.2371007879	-0.2309831854	-0.2246357525
10.800	-0.2824721774	-0.2675642832	-0.2607935639	-0.2398607840	-0.2366787787	-0.2304766523	-0.2240268138
11.000	-0.2822783579	-0.2674684686	-0.2602783104	-0.2394601956	-0.2362597868	-0.2299774944	-0.2234103893
11.200	-0.2820958813	-0.2673822936	-0.2597767926	-0.2390691985	-0.2358463735	-0.2294887587	-0.2229792624
11.400	-0.2819244367	-0.2673029274	-0.2592970143	-0.2386868398	-0.2354408249	-0.2290127744	-0.2221797950
11.600	-0.2817635858	-0.2672285054	-0.2588445870	-0.2383123355	-0.2350451210	-0.2285512434	-0.2215784445
11.800	-0.2816128027	-0.2671578223	-0.2584231421	-0.2379453041	-0.2346608997	-0.2281053283	-0.2209955934
12.000	-0.2814715341	-0.2670901196	-0.2580347108	-0.2375858878	-0.2342894614	-0.2276757302	-0.2204390050
12.200	-0.2813392069	-0.2670249230	-0.2576800355	-0.2372347441	-0.2339317815	-0.2272627584	-0.2199174077
12.400	-0.2812152567	-0.2669619475	-0.2573588401	-0.2368929691	-0.2335885646	-0.2268664198	-0.2194404026
12.600	-0.2810991370	-0.2669010236	-0.2570700473	-0.2365619428	-0.2332602945	-0.2264864905	-0.2190173980
12.800	-0.2809903261	-0.2668420567	-0.2568120457	-0.2362431775	-0.2329473069	-0.2261226226	-0.2186550480
13.000	-0.2808883279	-0.2667849918	-0.2565828112	-0.2359381389	-0.2326498259	-0.2257744091	-0.2183539602
13.200	-0.2807926902	-0.2667298074	-0.2563800929	-0.2356481148	-0.2323680161	-0.2254414825	-0.2181075234
13.400	-0.2807029777	-0.2666764868	-0.2562015510	-0.2353741050	-0.2321019886	-0.2251235683	-0.2179043943
13.600	-0.2806188025	-0.2666250295	-0.2560448228	-0.2351167674	-0.2318518099	-0.2248205322	-0.2177323578
13.800	-0.2805397939	-0.2665754310	-0.2559076088	-0.2348763906	-0.2316174743	-0.2245323891	-0.2175808074
14.000	-0.2804656178	-0.2665276875	-0.2557877412	-0.2346529224	-0.2313988877	-0.2242592979	-0.2174415077
14.200	-0.2803959659	-0.2664817906	-0.2556831865	-0.2344460090	-0.2311958405	-0.2240015134	-0.2173083837
14.400	-0.2803305547	-0.2664377318	-0.2555920755	-0.2342550502	-0.2310079915	-0.2237593288	-0.2171770999
14.600	-0.2802691265	-0.2663954968	-0.2555127222	-0.2340792725	-0.2308348592	-0.2235330036	-0.2170446539
15.000	-0.2801572779	-0.2663164074	-0.2553834212	-0.2337696071	-0.2305301859	-0.2231283823	-0.2167697101
15.200	-0.2801064350	-0.2662795013	-0.255309268	-0.2336337725	-0.2303970990	-0.2229498652	-0.216625563
15.600	-0.2800139682	-0.2662107860	-0.2552450527	-0.2333952425	-0.2301650389	-0.2226382570	-0.2163261877
15.800	-0.2799720079	-0.2661788994	-0.2552099663	-0.2332907089	-0.2300642223	-0.2225037110	-0.2161718911
16.000	-0.2799326884	-0.2661485997	-0.2551791690	-0.2331948597	-0.2299723230	-0.2223821079	-0.2160159813
16.200	-0.2798958664	-0.2661198379	-0.2551520642	-0.2331069148	-0.2298884574	-0.2222724083	-0.2158596016
16.400	-0.2798614051	-0.2660925630	-0.2551281533	-0.2330261592	-0.2298117876	-0.2221735308	-0.2157038734
16.600	-0.2798291764	-0.2660667226	-0.2551069878	-0.2329519374	-0.2297415304	-0.2220843963	-0.2155498512
16.800	-0.2797990548	-0.2660422639	-0.2550882007	-0.2328836529	-0.2296769602	-0.2220039568	-0.2153984570
17.000	-0.2797709234	-0.2660191308	-0.2550714682	-0.2328207624	-0.2296174163	-0.2219312246	-0.2152504980
17.200	-0.2797446679	-0.2659972667	-0.2550565151	-0.2327627720	-0.2295622961	-0.2218652817	-0.2151066049
17.400	-0.2797201784	-0.2659766184	-0.2550431076	-0.2327092356	-0.2295110621	-0.2218052943	-0.2149672544
17.600	-0.2796973514	-0.2659571285	-0.2550310415	-0.2326597484	-0.2294632352	-0.2217505115	-0.2148327961
17.800	-0.2796760860	-0.2659387438	-0.2550201464	-0.2326139478	-0.2294183888	-0.2217002649	-0.2147034408
18.000	-0.2796562848	-0.2659214086	-0.2550102743	-0.2325714991	-0.2293761454	-0.2216539636	-0.2145792931
18.200	-0.2796378546	-0.2659050725	-0.2550012973	-0.2325321052	-0.2293361785	-0.2216110885	-0.2144603660
18.400	-0.2796207062	-0.2658896833	-0.2549931069	-0.2324954956	-0.2292981981	-0.2215711920	-0.2143466056
18.600	-0.2796047551	-0.2658751886	-0.2549856104	-0.2324614261	-0.2292619563	-0.2215338771	-0.2142378849
18.800	-0.2795899195	-0.2658615442	-0.2549787300	-0.2324296769	-0.2292272374	-0.2214988074	-0.2141340482
19.000	-0.2795761223	-0.2658487006	-0.2549723934	-0.2324000464	-0.2291938546	-0.2214656905	-0.2140349084

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3 19.200 -0.2795632911 -0.2658366130 -0.2549665393 -0.2323723563 -0.2291616480 -0.2214342748 -0.2139402568
4 19.600 -0.2795402529 -0.2658145376 -0.2549560894 -0.2323221570 -0.2291002413 -0.2213757120 -0.2137635289
5 19.800 -0.2795299200 -0.2658044708 -0.2549514083 -0.2322993701 -0.2290708286 -0.2213482225 -0.2136810056
6 20.000 -0.2795202986 -0.2657949983 -0.2549470418 -0.2322779577 -0.2290421588 -0.2213217377 -0.2136020793
7 20.200 -0.2795113354 -0.2657860866 -0.2549429611 -0.2322578118 -0.2290141649 -0.2212961426 -0.2135265351
8 20.400 -0.2795029819 -0.2657777027 -0.2549391404 -0.2322388342 -0.2289867887 -0.2212713435 -0.2134541662
9 20.600 -0.2794951892 -0.2657698120 -0.2549355555 -0.2322209354 -0.2289599824 -0.2212472513 -0.2133847747
10 20.800 -0.2794879143 -0.2657623860 -0.2549321863 -0.2322040329 -0.2289337070 -0.2212237987 -0.2133181716
11 21.000 -0.2794811182 -0.2657553962 -0.2549290160 -0.2321880545 -0.2289079313 -0.2212009267 -0.2132541809
12 21.200 -0.2794747621 -0.2657488159 -0.2549260283 -0.2321729322 -0.2288826281 -0.2211785839 -0.2131926322
13 25.000 -0.2794048643 -0.2656754225 -0.2548911319 -0.2319906829 -0.2284794401 -0.2208265355 -0.2123268699
14 25.200 -0.2794027618 -0.2656733078 -0.2548900300 -0.2319846614 -0.2284621641 -0.2208113599 -0.2122916436
15 25.400 -0.2794007492 -0.2656713010 -0.2548889740 -0.2319788696 -0.2284452862 -0.2207965154 -0.2122571276
16 26.200 -0.2793935007 -0.2656642375 -0.2548851694 -0.2319577811 -0.2283817836 -0.2207405005 -0.2121258730
17 26.600 -0.2793902950 -0.2656612107 -0.2548834895 -0.2319483500 -0.2283524530 -0.2207145091 -0.2120642417
18 26.800 -0.2793887850 -0.2656598080 -0.2548826992 -0.2319438837 -0.2283383969 -0.2207020180 -0.2120344263
19 27.000 -0.2793873306 -0.2656584723 -0.2548819390 -0.2319395734 -0.2283247457 -0.2206898600 -0.2120052813
20 27.400 -0.2793845809 -0.2656559913 -0.2548805049 -0.2319313950 -0.2282986607 -0.2206665402 -0.2119490363
21 29.600 -0.2793725081 -0.2656458773 -0.2548742671 -0.2318952364 -0.2281837218 -0.2205609177 -0.2116907007
22 29.800 -0.2793716180 -0.2656451886 -0.2548738119 -0.2318925742 -0.2281755722 -0.2205530862 -0.2116715904
23 30.600 -0.2793683314 -0.2656427195 -0.2548721374 -0.2318827967 -0.2281464885 -0.2205244072 -0.2116022322
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Table 3: (1-5)¹Δ

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3.000	-0.2183254046	-0.1821521217	-0.1716545814	-0.1613221730	-0.1563997614
3.400	-0.2126542123	-0.1687737706	-0.1634744509	-0.1573752147	-0.1514123439
3.600	-0.2150823595	-0.1718510387	-0.1639677483	-0.1555373094	-0.1534287281
3.800	-0.2189763089	-0.1765924982	-0.1665875641	-0.1585569422	-0.1531018862
4.000	-0.2236065243	-0.1818775212	-0.1703415696	-0.1633067286	-0.1549515933
4.200	-0.2285372970	-0.1872509189	-0.1752039494	-0.1679430115	-0.1612087073
4.600	-0.2383449859	-0.1975206397	-0.1875754167	-0.1755565493	-0.1752953685
4.800	-0.2429570799	-0.2022672691	-0.1941801875	-0.1822967126	-0.1791542704
5.000	-0.2472745371	-0.2067260032	-0.2006204387	-0.1889383542	-0.1840416202
5.200	-0.2512540005	-0.2109016189	-0.2067095198	-0.1950777544	-0.1899186506
5.400	-0.2548678044	-0.2148057069	-0.2123322133	-0.2006107917	-0.1956198967
5.600	-0.2581004991	-0.2184476149	-0.2174219749	-0.2054886093	-0.2008332765
5.800	-0.2609471163	-0.2220224500	-0.2217507368	-0.2097137268	-0.2054785703
6.000	-0.2634120472	-0.2259736619	-0.2248551517	-0.2133290407	-0.2095390355
6.200	-0.2655079679	-0.2294265396	-0.2276030374	-0.2164001522	-0.2130259674
6.400	-0.2672545260	-0.2323806770	-0.2300055193	-0.2189972304	-0.2159663569
6.600	-0.2686767691	-0.2348729082	-0.2320562261	-0.2211828377	-0.2183973884
6.800	-0.2698034313	-0.2369445912	-0.2337614255	-0.2230071411	-0.2203636141
7.000	-0.2706652783	-0.2386378880	-0.2351384246	-0.2245086426	-0.2219144495
7.200	-0.2712936620	-0.2399937818	-0.2362119047	-0.2257178644	-0.2231007757
7.400	-0.2717193926	-0.2410509181	-0.2370105056	-0.2266613810	-0.2239714311
7.600	-0.2719719475	-0.2418449921	-0.2375642487	-0.2273643768	-0.2245709382
7.800	-0.2720789398	-0.2424084939	-0.2379028349	-0.2278514676	-0.2249387646
8.200	-0.2719556954	-0.2429578361	-0.2380459935	-0.2282725427	-0.2251136750
8.400	-0.2717693198	-0.2429932979	-0.2379012553	-0.2282507523	-0.2249778258
8.600	-0.2715250508	-0.2428979673	-0.2376424164	-0.2281010084	-0.2247255255
8.800	-0.2712389240	-0.2426905102	-0.2372893125	-0.2278414743	-0.2243775427
9.000	-0.2709247307	-0.2423876840	-0.2368596855	-0.2274887237	-0.2239522262
9.200	-0.2705941237	-0.2420046137	-0.2363692983	-0.2270578387	-0.2234657878
9.400	-0.2702567506	-0.2415550293	-0.2358320595	-0.2265625151	-0.2229325067
9.600	-0.2699204068	-0.2410514608	-0.2352601319	-0.2260151662	-0.2223649151
9.800	-0.2695912019	-0.2405053731	-0.2346640435	-0.2254270171	-0.2217739275
10.000	-0.2692737490	-0.2399272763	-0.2340527857	-0.2248081754	-0.2211689520
10.200	-0.2689713564	-0.2393267825	-0.2334339159	-0.2241677062	-0.2205579976
10.400	-0.2686862269	-0.2387126586	-0.2328136810	-0.2235136993	-0.2199477756
10.600	-0.2684196517	-0.2380928613	-0.2321971471	-0.2228533507	-0.2193438309
10.800	-0.2681721887	-0.2374745599	-0.2315883600	-0.2221930493	-0.2187506751
11.000	-0.2679438342	-0.2368641501	-0.2309905019	-0.2215384568	-0.2181719564
11.200	-0.2677341586	-0.2362672672	-0.2304060696	-0.2208945937	-0.2176106195
11.400	-0.2675424321	-0.2356887681	-0.2298370197	-0.2202658974	-0.2170690599
11.600	-0.2673677232	-0.2351327221	-0.2292849226	-0.2196562684	-0.2165492605
11.800	-0.2672089686	-0.2346023904	-0.2287510672	-0.2190690824	-0.2160528581
12.000	-0.2670650455	-0.2341002290	-0.2282365558	-0.2185071927	-0.2155811547
12.200	-0.2669348066	-0.2336278934	-0.2277423496	-0.2179729062	-0.2151350548
12.400	-0.2668171176	-0.2331862958	-0.2272692992	-0.2174679655	-0.2147149907
12.600	-0.2667108805	-0.2327756486	-0.2268181314	-0.2169935110	-0.2143208632
12.800	-0.2666150512	-0.2323955842	-0.2263894395	-0.2165500998	-0.2139520831
13.000	-0.2665286462	-0.2320452311	-0.2259836395	-0.2161376984	-0.2136076672
13.200	-0.2664507530	-0.2317233405	-0.2256009521	-0.2157557550	-0.2132863906
13.400	-0.2663805265	-0.2314283875	-0.2252413718	-0.2154032559	-0.2129869134
13.600	-0.2663171965	-0.2311586730	-0.22494046658	-0.2150788362	-0.2127078924
13.800	-0.2662600598	-0.2309123989	-0.2245903749	-0.2147808666	-0.2124480329
14.000	-0.2662084770	-0.2306877424	-0.2242978289	-0.2145075673	-0.2122061144
14.200	-0.2661618735	-0.2304829102	-0.2240261894	-0.2142570829	-0.2119809939
14.400	-0.2661197297	-0.2302961706	-0.2237744679	-0.2140275632	-0.2117715915
14.600	-0.2660815813	-0.2301258844	-0.2235415805	-0.2138172106	-0.2115768793
15.000	-0.2660156444	-0.2298286594	-0.2231276632	-0.2134473107	-0.2112275790
15.200	-0.2659871505	-0.2296990067	-0.2229442659	-0.2132847161	-0.2110710819
15.600	-0.2659376202	-0.2294717072	-0.2226188057	-0.2129975829	-0.2107897722
15.800	-0.2659160850	-0.2293720255	-0.2224745604	-0.2128707665	-0.2106631869
16.000	-0.2658964128	-0.2292804676	-0.2223412797	-0.2127537911	-0.2105448444
16.200	-0.2658784173	-0.2291962551	-0.2222180338	-0.2126457928	-0.2104339431
16.400	-0.2658619317	-0.2291186921	-0.2221039601	-0.2125460012	-0.2103297192
16.600	-0.2658468072	-0.2290471555	-0.2219982680	-0.2124537259	-0.2102314585
16.800	-0.2658329121	-0.2289810895	-0.2219002333	-0.2123683492	-0.2101384995
17.000	-0.2658201276	-0.2289199940	-0.2218091978	-0.2122893169	-0.2100502291
17.200	-0.2658083486	-0.2288634233	-0.2217245619	-0.2122161265	-0.2099660928
17.400	-0.2657974805	-0.2288109785	-0.2216457850	-0.2121483252	-0.2098855840
17.600	-0.2657874398	-0.2287623026	-0.2215723753	-0.2120855001	-0.2098082529
17.800	-0.2657781509	-0.2287170728	-0.2215038906	-0.2120272717	-0.2097336994
18.000	-0.2657695452	-0.2286750004	-0.2214399279	-0.2119732930	-0.2096615702
18.200	-0.2657615637	-0.2286358239	-0.2213801261	-0.2119232441	-0.2095915569
18.400	-0.2657541507	-0.2285993096	-0.2213241572	-0.2118768274	-0.2095233941

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2
3 18.600 -0.2657472571 -0.2285652439 -0.2212717231 -0.2118337688 -0.2094568487
4 18.800 -0.2657408399 -0.2285334362 -0.2212225566 -0.2117938119 -0.2093917296
5 19.000 -0.2657348582 -0.2285037096 -0.2211764120 -0.2117567186 -0.2093278657
6 19.200 -0.2657292761 -0.2284759074 -0.2211330681 -0.2117222674 -0.2092651168
7 19.600 -0.2657191854 -0.2284255078 -0.2210539927 -0.2116604822 -0.2091425191
8 19.800 -0.2657146215 -0.2284026607 -0.2210179104 -0.2116327791 -0.2090824854
9 20.000 -0.2657103437 -0.2283812289 -0.2209839188 -0.2116069759 -0.2090231976
10 20.200 -0.2657063309 -0.2283611137 -0.2209518794 -0.2115829195 -0.2089645992
11 20.400 -0.2657025644 -0.2283422238 -0.2209216638 -0.2115604712 -0.2089066399
12 20.600 -0.2656990239 -0.2283244713 -0.2208931488 -0.2115394968 -0.2088492758
13 20.800 -0.2656956933 -0.2283077802 -0.2208662283 -0.2115198756 -0.2087924710
14 21.000 -0.2656925584 -0.2282920777 -0.2208408013 -0.2115014985 -0.2087361923
15 21.200 -0.2656896042 -0.2282772986 -0.2208167722 -0.2114842618 -0.2086804114
16 21.400 -0.2656868189 -0.2282633796 -0.2207940564 -0.2114680737 -0.2086250995
17 21.600 -0.2656841892 -0.2282502648 -0.2207725698 -0.2114528457 -0.2085702286
18 21.800 -0.2656817066 -0.2282379033 -0.2207522433 -0.2114385006 -0.2085157785
19 22.000 -0.2656793594 -0.2282262450 -0.2207330046 -0.2114249655 -0.2084617210
20 22.200 -0.2656771390 -0.2282152451 -0.2207147890 -0.2114121752 -0.2084080308
21 22.400 -0.2656750368 -0.2282048623 -0.2206975359 -0.2114000694 -0.2083546851
22 22.600 -0.2656730461 -0.2281950584 -0.2206811925 -0.2113885944 -0.2083016597
23 22.800 -0.2656711581 -0.2281857950 -0.2206657011 -0.2113776982 -0.2082489256
24 23.000 -0.2656693685 -0.2281770438 -0.2206510184 -0.2113673381 -0.2081964623
25 23.200 -0.2656676685 -0.2281687685 -0.2206370949 -0.2113574694 -0.2081442416
26 23.400 -0.2656660541 -0.2281609413 -0.2206238885 -0.2113480580 -0.2080922367
27 23.600 -0.2656645200 -0.2281535371 -0.2206113597 -0.2113390667 -0.2080404218
28 23.800 -0.2656630615 -0.2281465303 -0.2205994708 -0.2113304673 -0.2079887719
29 24.000 -0.2656616739 -0.2281398958 -0.2205881868 -0.2113222293 -0.2079372585
30 24.200 -0.2656603521 -0.2281336127 -0.2205774720 -0.2113143267 -0.2078858552
31 24.400 -0.2656590924 -0.2281276589 -0.2205672954 -0.2113067368 -0.2078345373
32 24.600 -0.2656578932 -0.2281220182 -0.2205576316 -0.2112994391 -0.2077832790
33 24.800 -0.2656567483 -0.2281166692 -0.2205484486 -0.2112924123 -0.2077320537
34 25.000 -0.2656556566 -0.2281115978 -0.2205397227 -0.2112856408 -0.2076808358
35 25.200 -0.2656546149 -0.2281067870 -0.2205314282 -0.2112791083 -0.2076296028
36 25.400 -0.2656536194 -0.2281022207 -0.2205235418 -0.2112727981 -0.2075783287
37 25.600 -0.2656526682 -0.2280978869 -0.2205160434 -0.2112666978 -0.2075269924
38 25.800 -0.2656517583 -0.2280937713 -0.2205089093 -0.2112607944 -0.2074755687
39 26.000 -0.2656500565 -0.2280861472 -0.2204956641 -0.2112495394 -0.2073723785
40 26.200 -0.2656477663 -0.2280760649 -0.2204780929 -0.2112338882 -0.2072164308
41 26.400 -0.2656457492 -0.2280673751 -0.2204629102 -0.2112195258 -0.2070586562
42 26.600 -0.2656445377 -0.2280622470 -0.2204539388 -0.2112105799 -0.2069522455
43 26.800 -0.2656423872 -0.2280533335 -0.2204383532 -0.2111940130 -0.2067359905
44 27.000 -0.2656409828 -0.2280476403 -0.2204284294 -0.2111826149 -0.2065704487
45 27.200 -0.2656405491 -0.2280459040 -0.2204254145 -0.2111789909 -0.2065145795
46 27.400 -0.2656393419 -0.2280411226 -0.2204171453 -0.2111686056 -0.2063448046
47 27.600 -0.2656389693 -0.2280396587 -0.2204146293 -0.2111652971 -0.2062874698
48 27.800 -0.2656386094 -0.2280382523 -0.2204122202 -0.2111620597 -0.2062297551
49 28.000 -0.2656379277 -0.2280356041 -0.2204077109 -0.2111557926 -0.2061131673
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Table 4: (1-6)³Σ⁺

1	3.200	-0.2525451376	-0.2090715390	-0.1769390767	-0.1683191818	-0.1618905204	-0.1562998297
2	3.400	-0.2513120754	-0.2084448078	-0.1770362056	-0.1655273646	-0.1613657285	-0.1544880607
3	3.600	-0.2531404431	-0.2107258439	-0.1801548225	-0.1657097983	-0.1637620275	-0.1564242941
4	3.800	-0.2568217070	-0.2147533124	-0.1852098615	-0.1685662660	-0.1670637384	-0.1609213705
5	4.000	-0.2615972289	-0.2198024451	-0.1915872964	-0.1740253293	-0.1701891341	-0.1667275882
6	4.200	-0.2669796121	-0.2254004993	-0.1989078780	-0.1804437639	-0.1754307477	-0.1718504951
7	4.600	-0.2783710111	-0.2370532622	-0.2152186466	-0.1947626965	-0.1902873291	-0.1825006856
8	4.800	-0.2839983223	-0.2427233935	-0.2236204204	-0.2021640706	-0.1976577964	-0.1894109084
9	5.000	-0.2894128250	-0.2481278081	-0.2317890090	-0.2093598180	-0.2046134096	-0.1962769151
10	5.200	-0.2945331323	-0.2531986486	-0.2394730123	-0.2161236372	-0.2110740450	-0.2027763469
11	5.400	-0.2993039490	-0.2579019120	-0.2464891847	-0.2223210413	-0.2169928841	-0.2087659484
12	5.600	-0.3036913077	-0.2622318247	-0.2527221604	-0.2278919527	-0.2223391969	-0.2141790150
13	5.800	-0.3076787874	-0.2662037727	-0.2581125733	-0.2328237279	-0.2270996579	-0.2189934210
14	6.000	-0.3112642893	-0.2698411729	-0.2626489505	-0.2371322469	-0.2312788288	-0.2232155282
15	6.200	-0.3144571479	-0.2731562747	-0.2663689171	-0.2408504399	-0.2348968256	-0.2268698863
16	6.400	-0.3172754529	-0.2761394226	-0.2693562054	-0.2440211547	-0.2379856310	-0.2299922055
17	6.600	-0.3197435145	-0.2787706152	-0.2717189799	-0.2466923668	-0.2405851287	-0.2326243867
18	6.800	-0.3218894881	-0.2810392963	-0.2735625336	-0.2489137887	-0.2427395560	-0.2348109964
19	7.000	-0.3237433507	-0.2829526032	-0.2749755671	-0.2507344649	-0.2444946131	-0.2365967886
20	7.200	-0.3253352715	-0.2845322034	-0.2760294992	-0.2522011630	-0.2458953418	-0.2380250600
21	7.400	-0.3266944795	-0.2858079803	-0.2767823090	-0.2533574128	-0.2469846802	-0.2391366659
22	7.600	-0.3278485260	-0.2868129142	-0.2772822478	-0.2542430438	-0.2478026077	-0.2399695351
23	7.800	-0.3288228835	-0.2875799210	-0.2775704082	-0.2548940751	-0.2483856975	-0.2405585039
24	8.200	-0.3303231148	-0.2885224082	-0.2776490352	-0.2556182141	-0.2489759123	-0.2411290860
25	8.400	-0.3308886344	-0.2887526920	-0.2774976201	-0.2557459847	-0.2490387300	-0.2411659663
26	8.600	-0.3313539290	-0.2888545535	-0.2772517840	-0.2557491378	-0.2489785113	-0.2410699975
27	8.800	-0.3317336400	-0.2888491700	-0.2769321431	-0.2556482266	-0.2488155687	-0.2408654268
28	9.000	-0.3320405919	-0.2887556017	-0.2765565366	-0.2554616727	-0.2485677809	-0.2420408647
29	9.200	-0.3322859766	-0.2885909992	-0.2761402817	-0.2552060398	-0.2482510592	-0.2432526635
30	9.400	-0.3324794938	-0.2883707348	-0.2756963935	-0.2548962601	-0.2478803191	-0.2443814453
31	9.600	-0.3326295126	-0.2881084852	-0.2752357968	-0.2545458284	-0.2474733605	-0.2454169953
32	9.800	-0.3327432235	-0.2878162316	-0.2747675208	-0.2541669405	-0.2470936526	-0.2463071534
33	10.000	-0.3328267657	-0.2875042271	-0.2742988898	-0.2537706582	-0.2474053117	-0.2463991306
34	10.200	-0.3328853620	-0.2871809784	-0.2738356988	-0.2533671174	-0.2481711654	-0.2459401983
35	10.400	-0.3329234297	-0.2868532892	-0.2733824122	-0.2529659762	-0.2489014793	-0.2454282540
36	10.600	-0.3329446966	-0.2865263751	-0.2729423453	-0.2525775899	-0.2495668021	-0.2448978475
37	10.800	-0.3329522973	-0.2862040571	-0.2725178505	-0.2522169085	-0.2501570526	-0.2443574231
38	11.000	-0.3329488656	-0.2858890241	-0.2721104956	-0.2519201937	-0.2506428595	-0.2438115115
39	11.200	-0.3329366154	-0.2855830755	-0.2717212199	-0.2518119847	-0.2509062667	-0.2432633554
40	11.400	-0.3329174031	-0.2852873726	-0.2713504873	-0.2520202758	-0.2508251187	-0.2427155740
41	11.600	-0.3328927890	-0.2849026111	-0.270983914	-0.2523569302	-0.2505925817	-0.2421704243
42	11.800	-0.3328640769	-0.2847291799	-0.2706647615	-0.2526978409	-0.2503370175	-0.2416299218
43	12.000	-0.3328323604	-0.2844672470	-0.2703492390	-0.2530148288	-0.2500901534	-0.2410958909
44	12.200	-0.3327985470	-0.2842168204	-0.2700513334	-0.2533019104	-0.2498608837	-0.2405699895
45	12.400	-0.3327633952	-0.2839777978	-0.2697704661	-0.2535586725	-0.2496519766	-0.2400537084
46	12.600	-0.3327275168	-0.2837499939	-0.2695060049	-0.2537864636	-0.2494639613	-0.2395483678
47	12.800	-0.3326914302	-0.2835331439	-0.2692572800	-0.2539872489	-0.2492963555	-0.2390551098
48	13.000	-0.3326555370	-0.2833269295	-0.2690236109	-0.2541631939	-0.2491481428	-0.2385748976
49	13.200	-0.3326201657	-0.2831309993	-0.2688043045	-0.2543164967	-0.2490180149	-0.2381085215
50	13.400	-0.3325855770	-0.2829449475	-0.2685986704	-0.2544492980	-0.2489045111	-0.2376566032
51	13.600	-0.3325519696	-0.2827683599	-0.2684060222	-0.2545636386	-0.2488061037	-0.2372196164
52	13.800	-0.3325194881	-0.2826008010	-0.2682256825	-0.2546614455	-0.2487212608	-0.2367978932
53	14.000	-0.3324882446	-0.2824418230	-0.2680569809	-0.2547445147	-0.2486484822	-0.2363916449
54	14.200	-0.3324583097	-0.2822909804	-0.2678992629	-0.2548145111	-0.2485863310	-0.2360009768
55	14.400	-0.3324297249	-0.2821478291	-0.2677518911	-0.2548729619	-0.2485334544	-0.2356259126
56	14.600	-0.3324025142	-0.2820119336	-0.2676142443	-0.2549212691	-0.2484885922	-0.2352663993
57	15.000	-0.3323522047	-0.2817602278	-0.2673657440	-0.2549924101	-0.2484183718	-0.2345935377
58	15.200	-0.3323290642	-0.2816436255	-0.2672537628	-0.2550174306	-0.2483910059	-0.2342798463
59	15.800	-0.3322672788	-0.2813264759	-0.2669606649	-0.2550611431	-0.2483299388	-0.2334271774
60	16.400	-0.3322159337	-0.2810518135	-0.2667222576	-0.2550724157	-0.2482873296	-0.2327046626
	16.600	-0.3322008908	-0.2809684671	-0.2666530686	-0.2550714750	-0.2482750639	-0.2325004783
	16.800	-0.3321867951	-0.2808888507	-0.2665884397	-0.2550688712	-0.2482632180	-0.2323997764
	17.000	-0.3321735924	-0.2808127718	-0.2665280555	-0.2550649258	-0.2482515502	-0.2324447669
	17.200	-0.3321612305	-0.2807400535	-0.2664716288	-0.2550599218	-0.2482398656	-0.2325060583
	17.400	-0.3321496605	-0.2806705325	-0.2664188875	-0.2550541003	-0.2482280090	-0.2325673099
	17.600	-0.3321388319	-0.2806040591	-0.2663695840	-0.2550476669	-0.2482158669	-0.2326261339
	17.800	-0.3321286992	-0.2805404953	-0.2663234845	-0.2550408005	-0.2482033556	-0.2326816679
	18.000	-0.3321192183	-0.2804797159	-0.2662803738	-0.2550336387	-0.2481904176	-0.2327334888
	18.200	-0.3321103464	-0.2804216033	-0.2662400521	-0.2550263102	-0.2481770220	-0.2327813398
	18.400	-0.3321020436	-0.2803660493	-0.2662023336	-0.2550189117	-0.2481631576	-0.2328250763
	18.600	-0.3320942722	-0.2803129491	-0.2661670457	-0.2550115275	-0.2481488274	-0.2328646224
	18.800	-0.3320869972	-0.2802622092	-0.2661340281	-0.2550042291	-0.2481340504	-0.2328999645
	19.000	-0.3320801839	-0.2802137417	-0.2661031317	-0.2549970645	-0.2481188554	-0.2329311167

19.200 -0.3320738010 -0.2801674605 -0.2660742170 -0.2549900806 -0.2481032809 -0.2329581574
19.600 -0.3320622132 -0.2800811574 -0.2660218267 -0.2549767633 -0.2480711695 -0.2330002308
19.800 -0.3320569556 -0.2800409878 -0.2659981199 -0.2549704788 -0.2480547354 -0.2330155205
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Table 5: (1-8)³Π

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3.800	-0.2511765019	-0.2232843899	-0.1909541611	-0.1663916391	-0.1642561700	-0.1603177350	-0.1578633437	-0.1567438511
4.000	-0.2575271466	-0.2265924630	-0.1949350538	-0.1722259777	-0.1694721542	-0.1640551419	-0.1610634257	-0.1592396045
4.200	-0.2639314036	-0.2306097455	-0.1991905873	-0.1789235851	-0.1755423957	-0.1689907665	-0.1653696412	-0.1621036296
4.600	-0.2761049870	-0.2396125981	-0.2075924047	-0.1933586742	-0.1887275698	-0.1810408416	-0.1751781854	-0.1715949410
4.800	-0.2816303401	-0.2442106780	-0.2114972817	-0.2005772049	-0.1953331645	-0.1878795125	-0.1793821811	-0.1788070546
5.000	-0.2866749984	-0.2486885377	-0.2151401660	-0.2075217520	-0.2016867363	-0.1946650248	-0.1859818732	-0.1832546116
5.200	-0.2911899929	-0.2529464841	-0.2185203401	-0.2140401515	-0.2076451765	-0.2011285383	-0.1926042360	-0.1886728582
5.400	-0.2951481186	-0.2569109487	-0.2216704830	-0.2200188407	-0.2131020991	-0.2071218578	-0.1987020452	-0.1942666537
5.600	-0.2985417808	-0.2605320317	-0.2254940088	-0.2245378376	-0.2179778798	-0.2125649628	-0.2042107692	-0.1993671356
5.800	-0.3013800235	-0.2637807954	-0.2302585394	-0.2273683451	-0.2222086308	-0.2174220547	-0.2091056337	-0.2039123525
6.000	-0.3036850957	-0.2666461521	-0.2344405119	-0.2301026622	-0.2257528962	-0.2216877230	-0.2133895003	-0.2078993244
6.200	-0.3054890319	-0.2691315343	-0.2380418892	-0.2327726233	-0.2286405856	-0.2253774486	-0.2170845831	-0.2113560911
6.400	-0.3068305121	-0.2712515673	-0.2410988279	-0.2353019877	-0.2309991762	-0.2285206351	-0.2202261366	-0.2143769492
6.600	-0.3077521132	-0.2730288766	-0.2436578547	-0.2375957028	-0.2329781724	-0.2311552987	-0.2228574647	-0.2170114448
6.800	-0.3082980153	-0.2744911988	-0.2457708190	-0.2396027453	-0.2346830689	-0.2333243805	-0.2250261797	-0.2192070106
7.000	-0.3085121541	-0.2756689326	-0.2474918809	-0.2413129638	-0.2361739505	-0.2350744933	-0.2267813507	-0.2209895329
7.200	-0.3084368392	-0.2765932157	-0.2488755551	-0.2427375397	-0.2374807427	-0.2364560319	-0.2281714038	-0.2224002234
7.400	-0.3081118385	-0.2772945460	-0.2499754831	-0.2438960800	-0.2386183136	-0.2375185021	-0.2292425803	-0.2234806838
7.600	-0.3075738808	-0.2778018758	-0.2508435556	-0.2448102196	-0.2395986396	-0.2383036937	-0.2300379374	-0.2242704447
7.800	-0.3068564574	-0.2781420933	-0.2515290148	-0.2455009697	-0.2404326397	-0.2388466939	-0.2305967937	-0.2248063212
8.200	-0.3050014004	-0.2784169811	-0.2525278718	-0.2462930426	-0.2416909943	-0.2393321877	-0.2311429235	-0.2252507278
8.400	-0.3039155689	-0.2783934918	-0.2529135092	-0.2464235726	-0.2421249739	-0.2393318367	-0.2311899450	-0.2252202763
8.600	-0.3027543935	-0.2782866474	-0.2532582413	-0.2464370688	-0.2424339772	-0.2392029739	-0.2311205601	-0.2250687695
8.800	-0.3015376515	-0.2781115592	-0.2535780077	-0.2463300846	-0.2426214605	-0.2389673183	-0.2309568656	-0.2248301453
9.000	-0.3002831343	-0.2778811975	-0.2538818173	-0.2461429928	-0.2426904617	-0.2386440582	-0.2307184797	-0.2245619235
9.200	-0.2990068737	-0.2776065214	-0.2541736122	-0.2459073541	-0.2426438445	-0.2382501114	-0.2304228905	-0.2243314561
9.400	-0.2977233264	-0.2772965980	-0.2544540999	-0.2456530776	-0.2424856327	-0.2378003571	-0.2300856661	-0.2241822803
9.600	-0.2964455440	-0.2769587476	-0.2547221974	-0.2454046793	-0.2422234905	-0.2373078659	-0.2297205976	-0.2241206135
9.800	-0.2951853110	-0.2765986972	-0.2549760341	-0.2451783542	-0.2418707244	-0.2367840872	-0.2293396856	-0.2241241445
10.000	-0.2939532261	-0.2762207574	-0.2552135404	-0.2449818887	-0.2414456942	-0.2362390113	-0.2289527498	-0.2241517123
10.200	-0.2927587721	-0.2758280239	-0.2554328035	-0.2448172703	-0.2409687562	-0.2356813041	-0.2285667914	-0.2241609005
10.400	-0.2916103323	-0.2754226182	-0.2556321978	-0.2446836515	-0.2404590224	-0.2351184243	-0.2281851323	-0.2241207457
10.600	-0.2905151683	-0.2750059615	-0.2558104687	-0.2445790965	-0.2399325295	-0.2345567060	-0.2278067805	-0.2240149242
10.800	-0.2894793745	-0.2745790674	-0.2559667245	-0.2445010957	-0.2394018411	-0.2340014409	-0.2274267169	-0.2238397710
11.000	-0.2885077803	-0.2741428553	-0.2561004117	-0.2444465215	-0.2388763948	-0.2334569444	-0.2270373833	-0.2236004464
11.200	-0.2876038659	-0.2736984385	-0.2562113225	-0.2444115326	-0.2383631099	-0.2329266365	-0.2266309022	-0.2233068231
11.400	-0.2867696711	-0.2732473646	-0.2562995389	-0.2443915863	-0.2378669696	-0.2324131551	-0.2262010074	-0.2229701342
11.600	-0.2860057675	-0.2727917825	-0.2563654478	-0.2443816050	-0.2373914997	-0.2319184872	-0.2257440046	-0.2226008461
11.800	-0.2853112880	-0.2723344871	-0.2564097094	-0.2443762246	-0.2369391255	-0.2314441290	-0.2252587985	-0.2222078035
12.000	-0.2846840584	-0.2718788685	-0.2564332669	-0.2443700675	-0.2365114281	-0.2309912269	-0.2247463345	-0.2217980845
12.200	-0.2841207971	-0.2714287364	-0.2564373503	-0.2443579695	-0.2361093069	-0.2305606735	-0.2242088990	-0.2213772299
12.400	-0.2836173876	-0.2709880901	-0.2564234659	-0.2443351889	-0.2357331055	-0.2301531696	-0.2236449560	-0.2209495657
12.600	-0.2831691538	-0.2705608433	-0.2563933734	-0.2442975126	-0.2353826955	-0.2297692138	-0.2230717877	-0.2205184479
12.800	-0.2827711513	-0.2701505842	-0.2563490855	-0.2442413917	-0.2350575576	-0.2294090832	-0.2224793099	-0.2200864189
13.000	-0.2824183879	-0.2697603539	-0.2562927912	-0.2441639373	-0.2347568512	-0.2290727862	-0.2218761334	-0.2196552260
13.200	-0.2821060322	-0.2693925284	-0.2562268076	-0.2440629837	-0.2344794882	-0.2287600506	-0.2212667435	-0.2192257170
13.400	-0.2818295195	-0.26890487430	-0.2561535063	-0.2439370691	-0.2342241994	-0.2284703093	-0.2206564183	-0.2187975675
13.600	-0.2815846498	-0.2687299042	-0.2560752103	-0.2437854236	-0.2339896010	-0.2282027344	-0.2200517476	-0.2183688540
13.800	-0.2813676150	-0.2684362442	-0.2559941063	-0.2436079243	-0.2337742489	-0.2279562741	-0.2194612428	-0.2179354831
14.000	-0.2811750088	-0.2681674133	-0.2559121878	-0.2434050467	-0.2335766814	-0.2277297063	-0.2188957345	-0.2174908923
14.200	-0.2810038186	-0.2679225944	-0.2558311646	-0.2431777936	-0.2333954630	-0.2275216993	-0.2183675350	-0.2170270464
14.400	-0.2808513961	-0.2677006213	-0.2557524466	-0.2429275998	-0.2332292036	-0.2273308621	-0.2178870986	-0.2165380678
14.600	-0.2807154280	-0.2675000873	-0.2556771299	-0.2426562612	-0.2330765855	-0.2271557956	-0.2174585088	-0.2160253199
15.000	-0.2804850540	-0.2671570703	-0.2555396010	-0.2420585245	-0.2328737867	-0.2268475065	-0.2167394877	-0.2149890209
15.200	-0.2803873779	-0.2670113634	-0.2554781611	-0.2417366433	-0.2326885795	-0.2267117027	-0.2164342992	-0.21448986216
15.600	-0.2802204309	-0.2667637448	-0.2553703740	-0.2410583702	-0.2324776126	-0.2264708881	-0.2159026979	-0.2138123352
15.800	-0.2801490277	-0.2666589561	-0.2553237531	-0.2407064242	-0.2323837120	-0.2263637778	-0.2156685286	-0.2136468671
16.000	-0.2800844797	-0.2665651011	-0.2552816550	-0.2403487230	-0.2322964905	-0.2262642695	-0.2154518120	-0.2135633332
16.200	-0.2800260353	-0.2664810077	-0.2552437592	-0.2399871832	-0.2322152392	-0.2261715142	-0.2152505346	-0.2135301430
16.400	-0.2799730397	-0.2664056156	-0.2552097400	-0.2396235721	-0.2321393064	-0.2260847333	-0.2150630303	-0.2135291486
16.600	-0.2799249218	-0.2663379712	-0.2551792422	-0.2392595090	-0.2320680833	-0.2260032154	-0.2148878890	-0.2135505196
16.800	-0.2798811755	-0.2662772212	-0.2551519378	-0.2388964620	-0.2320010028	-0.2259263067	-0.2147238845	-0.2135885426
17.000	-0.2798413605	-0.2662226032	-0.2551275015	-0.2385357671	-0.2319375282	-0.2258534044	-0.2145699446	-0.2136395411
17.200	-0.2798050846	-0.2661734389	-0.2551056324	-0.2381786289	-0.2318771489	-0.2257839509	-0.2144251257	-0.2137009078
17.400	-0.2797720006	-0.2661291289	-0.2550860529	-0.2378261439	-0.2318193748	-0.2257174290	-0.2142886083	-0.2137706258
17.600	-0.2797418004	-0.2660891378	-0.2550685073	-0.2374793066	-0.2317637297	-0.2256533588	-0.2141597490	-0.2138469819
17.800	-0.2797142098	-0.2660529958	-0.2550527679	-0.2371390343	-0.2317097481	-0.2255912871	-0.2140388112	-0.2139276853
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3 19.200 -0.2795762836 -0.2658781055 -0.2549784243 -0.2350065077 -0.2313383751 -0.2251795699 -0.2145765951 -0.2133264896
4 19.600 -0.2795497969 -0.2658455959 -0.2549649107 -0.2344985728 -0.2312190436 -0.2250588760 -0.2147635815 -0.2131589160
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11 21.000 -0.2794843478 -0.2657666628 -0.2549320518 -0.2331719854 -0.2306742055 -0.2245789841 -0.2153560419 -0.2126512450
12 21.200 -0.2794775271 -0.2657585631 -0.2549286284 -0.2330416553 -0.2305785034 -0.2245005351 -0.2154296203 -0.2125863586
13 25.000 -0.2794050066 -0.2656760441 -0.2548912577 -0.2320873983 -0.2289261096 -0.2226083743 -0.2161100469 -0.2115364388
14 25.200 -0.2794028835 -0.2656738457 -0.2548901368 -0.2320719758 -0.2288719015 -0.2225049044 -0.2161038165 -0.2114868546
15 25.400 -0.2794008534 -0.2656717663 -0.2548890646 -0.2320577674 -0.2288208959 -0.2224032115 -0.2160931113 -0.2114376780
16 26.200 -0.2793935561 -0.2656644983 -0.2548852161 -0.2320107779 -0.2286456287 -0.2220193104 -0.2160056355 -0.2112453351
17 26.600 -0.2793903356 -0.2656614060 -0.2548835230 -0.2319919460 -0.2285730409 -0.2218439434 -0.2159354335 -0.2111520935
18 26.800 -0.2793888190 -0.2656599770 -0.2548827276 -0.2319834532 -0.2285399976 -0.2217609427 -0.2158939140 -0.2111063151
19 27.000 -0.2793873596 -0.2656586185 -0.2548819631 -0.2319755042 -0.2285089432 -0.2216811925 -0.2158482239 -0.2110611451
20 27.400 -0.2793846023 -0.2656561007 -0.2548805220 -0.2319610549 -0.2284523187 -0.2215316805 -0.2157447807 -0.2109727779
21 29.600 -0.2793725120 -0.2656458997 -0.2548742696 -0.2319057331 -0.2282397958 -0.2209393464 -0.2149404414 -0.2105433426
22 29.800 -0.2793716214 -0.2656452080 -0.2548738141 -0.2319021312 -0.2282267063 -0.2209024870 -0.2148528291 -0.2105093719
23 30.000 -0.2793707588 -0.2656445463 -0.2656445294 -0.2318987035 -0.2282144075 -0.2208679614 -0.2147636786 -0.2104761947
24 30.600 -0.2793683333 -0.2656427305 -0.2548721386 -0.2318893652 -0.2281818289 -0.2207771499 -0.2144889353 -0.2103810225
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Table 6: (1-5)³Δ

1	3.000	-0.2265771921	-0.1814883704	-0.1711453168	-0.1582723096	-0.1466450010
2	3.400	-0.2162426037	-0.1694609508	-0.1614388453	-0.1520610815	-0.1419801317
3	3.600	-0.2165647345	-0.1692248663	-0.1610993872	-0.1538341589	-0.1449801985
4	3.800	-0.2187179075	-0.1706642435	-0.1633126908	-0.1565011160	-0.1496396036
5	4.000	-0.2219971919	-0.1729408067	-0.1677346215	-0.1596528566	-0.1549212849
6	4.200	-0.2259540121	-0.1758592600	-0.1731702070	-0.1645209481	-0.1594972975
7	4.600	-0.2347716284	-0.1874025517	-0.1802462476	-0.1777307179	-0.1698644813
8	4.800	-0.2392487668	-0.1940831507	-0.1856141636	-0.1818297326	-0.1765098617
9	5.000	-0.2435893445	-0.2005683913	-0.1923182772	-0.1846015287	-0.1826724998
10	5.200	-0.2476968966	-0.2066837206	-0.1987401672	-0.1898934420	-0.1860999092
11	5.400	-0.2515014504	-0.2123224236	-0.2046779168	-0.1956271527	-0.1915119582
12	5.600	-0.2549564024	-0.2174248706	-0.2100533118	-0.2008735624	-0.1969323919
13	5.800	-0.2580355001	-0.2219667015	-0.2148351287	-0.2055509481	-0.2017906313
14	6.000	-0.2607297333	-0.2259493635	-0.2190220694	-0.2096506888	-0.2060575891
15	6.200	-0.2630441544	-0.2293924101	-0.2226332478	-0.2131909927	-0.2097456553
16	6.400	-0.2649947273	-0.2323273511	-0.2257013277	-0.2162046652	-0.2128851180
17	6.600	-0.2666053127	-0.2347928683	-0.2282673005	-0.2187325589	-0.2155161993
18	6.800	-0.2679049269	-0.2368311367	-0.2303764793	-0.2208191909	-0.2176842503
19	7.000	-0.2689253906	-0.2384851416	-0.2320755260	-0.2225097310	-0.2194364795
20	7.200	-0.2696994621	-0.2397967940	-0.2334103336	-0.2238479957	-0.2208196424
21	7.400	-0.2702594400	-0.2408057474	-0.2344246469	-0.2248752483	-0.2218785461
22	7.600	-0.2706362189	-0.2415487446	-0.2351592452	-0.2256295884	-0.2226550891
23	7.800	-0.2708586648	-0.2420593387	-0.2356515489	-0.2261457268	-0.2231877411
24	8.200	-0.2709439464	-0.2425016593	-0.2360416507	-0.2265857707	-0.2236570577
25	8.400	-0.2708520415	-0.2424851673	-0.2359973207	-0.2265632515	-0.2236526323
26	8.600	-0.2706963081	-0.2423403595	-0.2358268478	-0.2264102337	-0.2235225562
27	8.800	-0.2704930272	-0.2420869621	-0.2355518403	-0.2261471571	-0.2232884270
28	9.000	-0.2702561237	-0.2417427483	-0.2351914256	-0.2257924097	-0.2229692702
29	9.200	-0.2699973247	-0.2413237843	-0.2347624839	-0.2253625680	-0.2225818510
30	9.400	-0.2697263263	-0.2408446309	-0.2342798566	-0.2248725794	-0.2221409397
31	9.600	-0.2694509813	-0.2403185012	-0.2337565263	-0.2243359164	-0.2216595333
32	9.800	-0.2691774884	-0.2397573611	-0.2332037703	-0.2237646884	-0.2211490169
33	10.000	-0.2689105954	-0.2391720080	-0.2326313023	-0.2231697170	-0.2206192945
34	10.200	-0.2686537954	-0.2385721111	-0.2320474002	-0.2225606048	-0.2200788895
35	10.400	-0.2684095241	-0.2379662516	-0.2314590468	-0.2219457879	-0.2195350404
36	10.600	-0.2681793475	-0.2373619603	-0.2308720701	-0.2213325991	-0.2189938015
37	10.800	-0.2679641293	-0.2367657607	-0.2302913072	-0.2207273354	-0.2184601406
38	11.000	-0.2677641917	-0.2361832135	-0.2297207509	-0.2201353218	-0.2179380517
39	11.200	-0.2675794407	-0.2356189670	-0.2291637074	-0.2195609834	-0.2174306573
40	11.400	-0.2674094818	-0.2350767974	-0.2286229107	-0.2190079008	-0.2169403010
41	11.600	-0.2672537094	-0.2345596537	-0.2281006373	-0.2184788702	-0.2164686474
42	11.800	-0.2671113715	-0.2340696967	-0.2275987621	-0.2179759450	-0.2160167565
43	12.000	-0.2669816364	-0.2336083595	-0.2271188169	-0.2175004961	-0.2155851812
44	12.200	-0.2668636254	-0.2331763948	-0.2266620015	-0.2170532620	-0.2151740500
45	12.400	-0.2667564499	-0.2327739661	-0.2262291990	-0.2166344230	-0.2147831717
46	12.600	-0.2666592325	-0.2324007085	-0.2258209701	-0.2162436635	-0.2144121206
47	12.800	-0.2665711271	-0.2320558427	-0.2254375644	-0.2158802708	-0.2140603324
48	13.000	-0.2664913251	-0.2317382437	-0.2250789181	-0.2155432011	-0.2137271683
49	13.200	-0.2664190681	-0.2314465431	-0.2247446762	-0.2152311830	-0.2134119733
50	13.400	-0.2663536464	-0.2311792011	-0.2244342168	-0.2149427776	-0.2131140986
51	13.600	-0.2662944073	-0.2309345856	-0.2241466916	-0.2146764657	-0.2128329231
52	13.800	-0.2662407508	-0.2307110195	-0.2238810647	-0.2144306884	-0.2125678465
53	14.000	-0.2661921252	-0.2305068363	-0.2236361540	-0.2142039100	-0.2123182803
54	14.200	-0.2661480328	-0.2303204157	-0.2234106900	-0.2139946347	-0.2120836379
55	14.400	-0.2661080196	-0.2301502054	-0.2232033423	-0.2138014420	-0.2118633185
56	14.600	-0.2660716777	-0.2299947431	-0.2230127731	-0.2136229941	-0.2116567034
57	15.000	-0.2660085682	-0.2297227116	-0.2226767063	-0.2133054551	-0.2112819695
58	15.200	-0.2659811717	-0.2296037297	-0.2225287028	-0.2131641652	-0.2111124801
59	15.600	-0.2659333560	-0.2293945756	-0.2222670088	-0.2129117400	-0.2108056755
60	15.800	-0.2659124849	-0.2293025917	-0.2221512629	-0.2127989485	-0.2106669016
	16.000	-0.2658933743	-0.2292179446	-0.2220443504	-0.2126941300	-0.2105369072
	16.200	-0.2658758532	-0.2291399392	-0.2219454516	-0.2125966438	-0.2104149801
	16.400	-0.2658597684	-0.2290679545	-0.2218538230	-0.2125059126	-0.2103004261
	16.600	-0.2658449824	-0.2290014338	-0.2217687959	-0.2124214158	-0.2101925790
	16.800	-0.2658313730	-0.2289398801	-0.2216897675	-0.2123426838	-0.2100908089
	17.000	-0.2658188299	-0.2288828450	-0.2216161978	-0.2122692931	-0.2099945174
	17.200	-0.2658072544	-0.2288299304	-0.2215476023	-0.2122008572	-0.2099031509
	17.400	-0.2657965583	-0.2287807781	-0.2214835494	-0.2121370255	-0.2098161922
	17.600	-0.2657866624	-0.2287350687	-0.2214236498	-0.2120774788	-0.2097331697
	17.800	-0.2657774957	-0.2286925123	-0.2213675584	-0.2120219213	-0.2096536546
	18.000	-0.2657689932	-0.2286528497	-0.2213149618	-0.2119700816	-0.2095772562
	18.200	-0.2657610986	-0.2286158458	-0.2212655824	-0.2119217088	-0.2095036270
	18.400	-0.2657537590	-0.2285812909	-0.2212191700	-0.2118765683	-0.2094324560

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3 18.600 -0.2657469272 -0.2285489919 -0.2211754969 -0.2118344419 -0.2093634645
4 18.800 -0.2657405619 -0.2285187783 -0.2211343629 -0.2117951259 -0.2092964136
5 19.000 -0.2657346241 -0.2284904895 -0.2210955820 -0.2117584287 -0.2092310863
6 19.200 -0.2657290791 -0.2284639842 -0.2210589887 -0.2117241703 -0.2091672961
7 19.600 -0.2657190458 -0.2284158107 -0.2209917752 -0.2116623042 -0.2090437060
8 19.800 -0.2657145040 -0.2283939162 -0.2209608936 -0.2116343898 -0.2089836405
9 20.000 -0.2657102449 -0.2283733438 -0.2209316699 -0.2116082966 -0.2089245804
10 20.200 -0.2657062477 -0.2283540042 -0.2209040012 -0.2115838928 -0.2088664352
11 20.400 -0.2657024944 -0.2283358141 -0.2208777922 -0.2115610584 -0.2088091247
12 20.600 -0.2656989650 -0.2283186928 -0.2208529504 -0.2115396749 -0.2087525763
13 20.800 -0.2656956437 -0.2283025715 -0.2208293970 -0.2115196352 -0.2086967294
14 21.000 -0.2656925167 -0.2282873827 -0.2208070566 -0.2115008402 -0.2086415289
15 21.200 -0.2656895691 -0.2282730669 -0.2207858570 -0.2114831945 -0.2085869259
16 21.400 -0.2656867894 -0.2282595662 -0.2207657343 -0.2114666140 -0.2085328743
17 21.600 -0.2656841644 -0.2282468283 -0.2207466249 -0.2114510142 -0.2084793307
18 21.800 -0.2656816857 -0.2282348069 -0.2207284773 -0.2114363227 -0.2084262621
19 22.000 -0.2656793417 -0.2282234550 -0.2207112359 -0.2114224689 -0.2083736282
20 22.200 -0.2656771241 -0.2282127317 -0.2206948504 -0.2114093899 -0.2083213933
21 22.400 -0.2656750242 -0.2282025981 -0.2206792747 -0.2113970259 -0.2082695264
22 22.600 -0.2656730356 -0.2281930191 -0.2206644685 -0.2113853225 -0.2082179954
23 22.800 -0.2656711492 -0.2281839585 -0.2206503858 -0.2113742291 -0.2081667653
24 23.000 -0.2656693610 -0.2281753898 -0.2206369939 -0.2113637010 -0.2081158100
25 23.200 -0.2656676622 -0.2281672788 -0.2206242533 -0.2113536935 -0.2080650970
26 23.400 -0.2656660488 -0.2281596003 -0.2206121306 -0.2113441696 -0.2080145949
27 23.600 -0.2656645156 -0.2281523297 -0.2206005949 -0.2113350925 -0.2079642754
28 23.800 -0.2656630578 -0.2281454431 -0.2205896156 -0.2113264313 -0.2079141107
29 24.000 -0.2656616708 -0.2281389169 -0.2205791649 -0.2113181538 -0.2078640698
30 24.200 -0.2656603495 -0.2281327316 -0.2205692135 -0.2113102325 -0.2078141247
31 24.400 -0.2656590902 -0.2281268656 -0.2205597362 -0.2113026427 -0.2077642487
32 24.600 -0.2656578913 -0.2281213042 -0.2205507129 -0.2112953622 -0.2077144155
33 24.800 -0.2656567467 -0.2281160266 -0.2205421165 -0.2112883679 -0.2076645965
34 25.000 -0.2656556553 -0.2281110193 -0.2205339280 -0.2112816425 -0.2076147660
35 25.200 -0.2656546138 -0.2281062661 -0.2205261255 -0.2112751671 -0.2075649007
36 25.400 -0.2656536184 -0.2281017519 -0.2205186897 -0.2112689259 -0.2075149743
37 25.600 -0.2656526675 -0.2280974651 -0.2205116039 -0.2112629039 -0.2074649653
38 25.800 -0.2656517577 -0.2280933916 -0.2205048478 -0.2112570866 -0.2074148479
39 26.000 -0.2656508883 -0.2280895201 -0.2204984070 -0.2112514644 -0.2073646026
40 26.200 -0.2656500561 -0.2280858399 -0.2204922653 -0.2112460226 -0.2073142079
41 26.400 -0.2656492265 -0.2280822653 -0.2204860226 -0.2112406022 -0.2072640226
42 26.600 -0.2656484924 -0.2280784111 -0.2204792265 -0.2112351849 -0.2072138492
43 26.800 -0.2656477660 -0.2280745811 -0.2204724924 -0.2112297676 -0.2071636760
44 27.000 -0.2656470652 -0.2280707511 -0.2204657584 -0.2112243503 -0.2071135027
45 27.200 -0.2656463644 -0.2280669211 -0.2204590143 -0.2112189330 -0.2070633294
46 27.400 -0.2656456636 -0.2280630911 -0.2204522702 -0.2112135157 -0.2070131561
47 27.600 -0.2656449628 -0.2280592611 -0.2204455261 -0.2112080984 -0.2069629828
48 27.800 -0.2656442620 -0.2280554311 -0.2204387820 -0.2112026811 -0.2069128095
49 28.000 -0.2656435612 -0.2280516011 -0.2204320379 -0.2111972638 -0.2068626362
50 28.200 -0.2656428604 -0.2280477711 -0.2204252938 -0.2111918465 -0.2068124629
51 28.400 -0.2656421596 -0.2280439411 -0.2204185497 -0.2111864292 -0.2067622896
52 28.600 -0.2656414588 -0.2280401111 -0.2204118056 -0.2111810119 -0.2067121163
53 28.800 -0.2656407580 -0.2280362811 -0.2204050615 -0.2111755946 -0.2066619430
54 29.000 -0.2656400572 -0.2280324511 -0.2203983174 -0.2111701773 -0.2066117697
55 29.200 -0.2656393564 -0.2280286211 -0.2203915733 -0.2111647600 -0.2065615964
56 29.400 -0.2656386556 -0.2280247911 -0.2203848292 -0.2111593427 -0.2065114231
57 29.600 -0.2656379548 -0.2280209611 -0.2203780851 -0.2111539254 -0.2064612498
58 29.800 -0.2656372540 -0.2280171311 -0.2203713410 -0.2111485081 -0.2064110765
59 30.000 -0.2656365532 -0.2280133011 -0.2203645969 -0.2111430908 -0.2063609032
60 30.200 -0.2656358524 -0.2280094711 -0.2203578528 -0.2111376735 -0.2063107299
30.400 -0.2656351516 -0.2280056411 -0.2203511087 -0.2111322562 -0.2062605566
30.600 -0.2656344508 -0.2280018111 -0.2203443646 -0.2111268389 -0.2062103833
30.800 -0.2656337500 -0.2280000000 -0.2203400000 -0.2111250000 -0.2062000000

The following tables display the dipole moment functions between the four lowest Σ^+ states with the seven lowest Σ states of **NaK**, for singlet (Tables 1 to 4) and triplet (Tables 5 to 8) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr =0.0529177 nm, and 1 a.u. =2.54158059 Debye. All states are identified with their number with increasing energy. When both indexes are equal, the function corresponds to the permanent dipole moment.

Table 1: (1)¹ Σ^+ -(1-7)¹ Σ^+ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	-0.703200E+00	0.309080E+01	0.111870E+01	-0.202600E+00	-0.195100E+00	-0.103200E+00	0.149000E+00
3.200	-0.762200E+00	0.310650E+01	0.113810E+01	-0.218200E+00	-0.222300E+00	-0.111700E+00	0.136900E+00
3.400	-0.806700E+00	0.312990E+01	0.114430E+01	-0.228100E+00	-0.242900E+00	-0.135600E+00	0.115800E+00
3.800	-0.867300E+00	0.319210E+01	0.111510E+01	-0.237200E+00	-0.256100E+00	-0.226600E+00	0.587000E-01
4.000	-0.888600E+00	0.322690E+01	0.108460E+01	-0.238400E+00	-0.251100E+00	-0.278800E+00	0.323000E-01
4.200	-0.906400E+00	0.326250E+01	0.104950E+01	-0.237600E+00	-0.243400E+00	-0.325600E+00	0.126000E-01
4.400	-0.922300E+00	0.329850E+01	0.101440E+01	-0.234600E+00	-0.235700E+00	-0.363700E+00	-0.900000E-03
4.600	-0.937100E+00	0.333540E+01	0.982500E+00	-0.229900E+00	-0.229000E+00	-0.392500E+00	-0.320000E-02
4.800	-0.951800E+00	0.337380E+01	0.955700E+00	-0.224200E+00	-0.222700E+00	-0.413100E+00	-0.180000E-02
5.200	-0.982100E+00	0.345700E+01	0.920100E+00	-0.213400E+00	-0.206500E+00	-0.437500E+00	-0.900000E-02
5.400	-0.998100E+00	0.350230E+01	0.911600E+00	-0.209500E+00	-0.194400E+00	-0.444900E+00	-0.153000E-01
5.600	-0.101450E+01	0.355020E+01	0.908900E+00	-0.206900E+00	-0.178400E+00	-0.450700E+00	-0.209000E-01
5.800	-0.103130E+01	0.360050E+01	0.911900E+00	-0.205400E+00	-0.157700E+00	-0.455600E+00	-0.253000E-01
6.000	-0.104800E+01	0.365280E+01	0.920200E+00	-0.204900E+00	-0.132000E+00	-0.459700E+00	-0.283000E-01
6.200	-0.106430E+01	0.370680E+01	0.933400E+00	-0.205000E+00	-0.101000E+00	-0.462500E+00	-0.295000E-01
6.400	-0.107980E+01	0.376210E+01	0.951200E+00	-0.205400E+00	-0.064600E-01	-0.463300E+00	-0.286000E-01
6.600	-0.109400E+01	0.381800E+01	0.973500E+00	-0.205700E+00	-0.233000E-01	-0.461300E+00	-0.254000E-01
6.800	-0.110630E+01	0.387390E+01	0.999900E+00	-0.205000E+00	0.218000E-01	-0.455300E+00	-0.197000E-01
7.000	-0.111620E+01	0.392910E+01	0.103050E+01	-0.202400E+00	0.696000E-01	-0.444900E+00	-0.112000E-01
7.200	-0.112310E+01	0.398290E+01	0.106490E+01	-0.196400E+00	0.119000E+00	-0.437000E+00	-0.100000E-03
7.400	-0.112640E+01	0.403440E+01	0.110320E+01	-0.184600E+00	0.169200E+00	-0.411000E+00	0.136000E-01
7.600	-0.112560E+01	0.408290E+01	0.114510E+01	-0.163000E+00	0.219800E+00	-0.388500E+00	0.295000E-01
7.800	-0.112020E+01	0.412760E+01	0.119040E+01	-0.126800E+00	0.269200E+00	-0.363400E+00	0.473000E-01
8.000	-0.110970E+01	0.416750E+01	0.123890E+01	-0.739000E-01	0.312800E+00	-0.336000E+00	0.663000E-01
8.200	-0.109380E+01	0.420180E+01	0.129010E+01	0.100000E-01	0.344600E+00	-0.306900E+00	0.861000E-01
8.400	-0.107210E+01	0.423000E+01	0.134360E+01	0.534000E-01	0.363700E+00	-0.276100E+00	0.106200E+00
8.600	-0.104470E+01	0.425120E+01	0.139880E+01	0.109900E+00	0.374400E+00	-0.243700E+00	0.126300E+00
8.800	-0.101150E+01	0.426490E+01	0.145490E+01	0.159200E+00	0.380900E+00	-0.209600E+00	0.145900E+00
9.000	-0.972900E+00	0.427080E+01	0.151130E+01	0.203500E+00	0.385200E+00	-0.173800E+00	0.164700E+00
9.200	-0.929400E+00	0.426860E+01	0.156720E+01	0.244900E+00	0.388200E+00	-0.136400E+00	0.182400E+00
9.400	-0.881600E+00	0.425820E+01	0.162180E+01	0.284600E+00	0.390000E+00	-0.973000E-01	0.198500E+00
9.600	-0.830300E+00	0.423990E+01	0.167460E+01	0.323600E+00	0.390600E+00	-0.568000E-01	0.212800E+00
9.800	-0.776600E+00	0.421410E+01	0.172490E+01	0.362200E+00	0.389800E+00	-0.150000E-01	0.225000E+00
10.000	-0.721300E+00	0.418130E+01	0.177230E+01	0.400300E+00	0.387600E+00	-0.276000E-01	0.234800E+00
10.200	-0.665500E+00	0.414240E+01	0.181650E+01	0.437700E+00	0.384000E+00	0.707000E-01	0.242100E+00
10.400	-0.610100E+00	0.409820E+01	0.185740E+01	0.473900E+00	0.379200E+00	0.113900E+00	0.246800E+00
10.600	-0.556000E+00	0.404980E+01	0.189500E+01	0.508300E+00	0.373400E+00	0.156700E+00	0.248700E+00
10.800	-0.503800E+00	0.399830E+01	0.192940E+01	0.540200E+00	0.366700E+00	0.198700E+00	0.248000E+00
11.000	-0.454200E+00	0.394480E+01	0.196080E+01	0.568800E+00	0.359500E+00	0.239400E+00	0.244500E+00
11.200	-0.407500E+00	0.389020E+01	0.198950E+01	0.593300E+00	0.351900E+00	0.278500E+00	0.238200E+00
11.400	-0.364100E+00	0.383560E+01	0.201600E+01	0.613200E+00	0.344100E+00	0.315300E+00	0.229100E+00
11.600	-0.324100E+00	0.378190E+01	0.204040E+01	0.627600E+00	0.336200E+00	0.349400E+00	0.217200E+00
11.800	-0.287500E+00	0.372990E+01	0.206320E+01	0.635800E+00	0.328300E+00	0.380100E+00	0.202900E+00
12.000	-0.254200E+00	0.368010E+01	0.208460E+01	0.637400E+00	0.320400E+00	0.407100E+00	0.186900E+00
12.200	-0.224200E+00	0.363320E+01	0.210490E+01	0.631800E+00	0.312500E+00	0.429900E+00	0.170000E+00
12.400	-0.197200E+00	0.358950E+01	0.212420E+01	0.618400E+00	0.304600E+00	0.448300E+00	0.152900E+00
12.600	-0.173100E+00	0.354930E+01	0.214270E+01	0.596900E+00	0.296600E+00	0.462600E+00	0.136200E+00
12.800	-0.151600E+00	0.351280E+01	0.216010E+01	0.567100E+00	0.288500E+00	0.472800E+00	0.120100E+00
13.000	-0.132500E+00	0.348010E+01	0.217640E+01	0.528800E+00	0.280200E+00	0.479200E+00	0.104700E+00
13.200	-0.115600E+00	0.345110E+01	0.219110E+01	0.482300E+00	0.271700E+00	0.482200E+00	0.901000E-01
13.400	-0.100700E+00	0.342580E+01	0.220400E+01	0.428100E+00	0.263100E+00	0.482100E+00	0.757000E-01
13.600	-0.875000E-01	0.340400E+01	0.221440E+01	0.367200E+00	0.254200E+00	0.479200E+00	0.612000E-01
13.800	-0.760000E-01	0.338550E+01	0.222200E+01	0.301300E+00	0.245200E+00	0.473900E+00	0.459000E-01
14.000	-0.658000E-01	0.336990E+01	0.222620E+01	0.232600E+00	0.236200E+00	0.466300E+00	0.287000E-01
14.200	-0.568000E-01	0.335700E+01	0.222690E+01	0.164400E+00	0.227000E+00	0.456500E+00	0.820000E-02
14.400	-0.490000E-01	0.334640E+01	0.222440E+01	0.100600E+00	0.218000E+00	0.444200E+00	-0.182000E-01
14.600	-0.421000E-01	0.333760E+01	0.221920E+01	0.457000E-01	0.209000E+00	0.427900E+00	-0.548000E-01
14.800	-0.361000E-01	0.333040E+01	0.221230E+01	-0.430000E-02	0.200200E+00	0.403200E+00	-0.107500E+00
15.000	-0.308000E-01	0.332440E+01	0.220480E+01	-0.194000E-01	0.191600E+00	0.361400E+00	-0.177300E+00
15.200	-0.261000E-01	0.331910E+01	0.219760E+01	-0.222000E-01	0.183400E+00	0.301200E+00	-0.243400E+00
15.400	-0.221000E-01	0.331450E+01	0.219110E+01	0.340000E-02	0.175400E+00	0.242900E+00	-0.281400E+00
15.600	-0.185000E-01	0.331010E+01	0.218500E+01	0.348000E-01	0.167800E+00	0.199700E+00	-0.294700E+00
15.800	-0.154000E-01	0.330580E+01	0.217870E+01	0.865000E-01	0.160600E+00	0.169800E+00	-0.295000E+00
16.000	-0.127000E-01	0.330140E+01	0.217180E+01	0.143800E+00	0.153700E+00	0.148500E+00	-0.289000E+00
16.200	-0.103000E-01	0.329680E+01	0.216470E+01	0.198700E+00	0.147200E+00	0.132600E+00	-0.279800E+00
16.400	-0.820000E-02	0.329190E+01	0.215820E+01	0.245600E+00	0.141100E+00	0.120200E+00	-0.269100E+00

URL: <http://mc.manuscriptcentral.com/tandf/tmph>

Table 2: $(2)^1\Sigma^+ - (2-6)^1\Sigma^+$ transitions

R	2-2	2-3	2-4	2-5	2-6
3.000	0.874900E+00	0.117050E+01	0.188730E+01	-0.962000E+00	0.286540E+01
3.200	0.901700E+00	0.127720E+01	0.190580E+01	-0.110500E+01	0.288580E+01
3.400	0.905300E+00	0.140070E+01	0.191170E+01	-0.128060E+01	0.288160E+01
3.800	0.880100E+00	0.171890E+01	0.186410E+01	-0.163420E+01	0.275370E+01
4.000	0.863200E+00	0.190550E+01	0.180860E+01	-0.175610E+01	0.265110E+01
4.200	0.847000E+00	0.209790E+01	0.173690E+01	-0.182920E+01	0.254350E+01
4.400	0.831700E+00	0.228480E+01	0.165580E+01	-0.186310E+01	0.244030E+01
4.600	0.816900E+00	0.245590E+01	0.157350E+01	-0.187320E+01	0.234880E+01
4.800	0.801500E+00	0.260360E+01	0.149800E+01	-0.187480E+01	0.227530E+01
5.200	0.766300E+00	0.281230E+01	0.139140E+01	-0.189720E+01	0.219150E+01
5.400	0.745600E+00	0.287120E+01	0.136700E+01	-0.193380E+01	0.218070E+01
5.600	0.722200E+00	0.290070E+01	0.136320E+01	-0.199430E+01	0.218580E+01
5.800	0.695700E+00	0.290250E+01	0.138000E+01	-0.208210E+01	0.220110E+01
6.000	0.665300E+00	0.287790E+01	0.141700E+01	-0.219920E+01	0.221870E+01
6.200	0.630000E+00	0.282850E+01	0.147450E+01	-0.234570E+01	0.223030E+01
6.400	0.588900E+00	0.275570E+01	0.155380E+01	-0.251870E+01	0.222720E+01
6.600	0.540500E+00	0.266050E+01	0.165790E+01	-0.271070E+01	0.220160E+01
6.800	0.483700E+00	0.254430E+01	0.179200E+01	-0.291000E+01	0.215050E+01
7.000	0.417000E+00	0.240830E+01	0.196510E+01	-0.309760E+01	0.207490E+01
7.200	0.339100E+00	0.225380E+01	0.219090E+01	-0.324940E+01	0.198110E+01
7.400	0.248400E+00	0.208290E+01	0.248880E+01	-0.333270E+01	0.187780E+01
7.600	0.143700E+00	0.189750E+01	0.288060E+01	-0.330360E+01	0.177410E+01
7.800	0.238000E-01	0.170020E+01	0.337270E+01	-0.310800E+01	0.167700E+01
8.000	-0.112100E+00	0.149420E+01	0.391860E+01	-0.271630E+01	0.159100E+01
8.200	-0.264600E+00	0.128270E+01	0.441380E+01	-0.219140E+01	0.151840E+01
8.400	-0.433600E+00	0.106930E+01	0.478390E+01	-0.166990E+01	0.145970E+01
8.600	-0.618700E+00	0.857500E+00	0.503530E+01	-0.124260E+01	0.141480E+01
8.800	-0.818900E+00	0.650600E+00	0.520660E+01	-0.923100E+00	0.138270E+01
9.000	-0.103240E+01	0.451500E+00	0.532830E+01	-0.691800E+00	0.136230E+01
9.200	-0.125710E+01	0.262500E+00	0.541850E+01	-0.525900E+00	0.135240E+01
9.400	-0.149030E+01	0.852000E-01	0.548750E+01	-0.408000E+00	0.135150E+01
9.600	-0.172890E+01	-0.795000E-01	0.554150E+01	-0.325600E+00	0.135750E+01
9.800	-0.196970E+01	-0.231600E+00	0.558480E+01	-0.269800E+00	0.136860E+01
10.000	-0.220950E+01	-0.371400E+00	0.562040E+01	-0.234300E+00	0.138240E+01
10.200	-0.244480E+01	-0.500100E+00	0.565050E+01	-0.214100E+00	0.139640E+01
10.400	-0.267280E+01	-0.618800E+00	0.567710E+01	-0.205300E+00	0.140790E+01
10.600	-0.289060E+01	-0.729300E+00	0.570160E+01	-0.204700E+00	0.141450E+01
10.800	-0.309580E+01	-0.833300E+00	0.572510E+01	-0.209400E+00	0.141350E+01
11.000	-0.328600E+01	-0.932500E+00	0.574840E+01	-0.217500E+00	0.140340E+01
11.200	-0.345970E+01	-0.102880E+01	0.577200E+01	-0.227100E+00	0.138300E+01
11.400	-0.361520E+01	-0.112380E+01	0.579630E+01	-0.237100E+00	0.135250E+01
11.600	-0.375120E+01	-0.121910E+01	0.582100E+01	-0.246600E+00	0.131280E+01
11.800	-0.386680E+01	-0.131610E+01	0.584590E+01	-0.255100E+00	0.126620E+01
12.000	-0.396110E+01	-0.141610E+01	0.587050E+01	-0.262400E+00	0.121580E+01
12.200	-0.403360E+01	-0.152020E+01	0.589380E+01	-0.268400E+00	0.116480E+01
12.400	-0.408370E+01	-0.162930E+01	0.591470E+01	-0.273000E+00	0.111600E+01
12.600	-0.411110E+01	-0.174420E+01	0.593200E+01	-0.276300E+00	0.107200E+01
12.800	-0.411570E+01	-0.186500E+01	0.594390E+01	-0.278600E+00	0.103430E+01
13.000	-0.409740E+01	-0.199170E+01	0.594900E+01	-0.279700E+00	0.100400E+01
13.200	-0.405670E+01	-0.212340E+01	0.594570E+01	-0.280000E+00	0.981800E+00
13.400	-0.399390E+01	-0.225810E+01	0.593250E+01	-0.279300E+00	0.968300E+00
13.600	-0.391000E+01	-0.239280E+01	0.590870E+01	-0.277700E+00	0.964200E+00
13.800	-0.380600E+01	-0.252310E+01	0.587410E+01	-0.275200E+00	0.970700E+00
14.000	-0.368360E+01	-0.264260E+01	0.582990E+01	-0.271700E+00	0.990000E+00
14.200	-0.354440E+01	-0.274330E+01	0.577880E+01	-0.267300E+00	0.102590E+01
14.400	-0.339080E+01	-0.281580E+01	0.572500E+01	-0.261800E+00	0.108560E+01
14.600	-0.322530E+01	-0.284970E+01	0.567360E+01	-0.255200E+00	0.118080E+01
14.800	-0.305060E+01	-0.283480E+01	0.563050E+01	-0.247400E+00	0.132670E+01
15.000	-0.286940E+01	-0.276220E+01	0.559990E+01	-0.238300E+00	0.152120E+01
15.200	-0.268480E+01	-0.262620E+01	0.558330E+01	-0.227900E+00	0.171090E+01
15.400	-0.249950E+01	-0.242740E+01	0.557740E+01	-0.216200E+00	0.185490E+01
15.600	-0.231600E+01	-0.217450E+01	0.557380E+01	-0.203200E+00	0.197360E+01
15.800	-0.213670E+01	-0.188600E+01	0.556110E+01	-0.188900E+00	0.208620E+01
16.000	-0.196360E+01	-0.158600E+01	0.552920E+01	-0.173300E+00	0.219760E+01
16.200	-0.179810E+01	-0.129850E+01	0.547270E+01	-0.156600E+00	0.230770E+01
16.400	-0.164160E+01	-0.104070E+01	0.539180E+01	-0.138700E+00	0.241560E+01
16.600	-0.149470E+01	-0.821000E+00	0.529080E+01	-0.119700E+00	0.251980E+01
16.800	-0.135800E+01	-0.640200E+00	0.517530E+01	-0.998000E-01	0.261980E+01
17.000	-0.123160E+01	-0.494600E+00	0.505060E+01	-0.791000E-01	0.271500E+01
17.200	-0.111540E+01	-0.379000E+00	0.492090E+01	-0.575000E-01	0.280510E+01
17.400	-0.100910E+01	-0.287800E+00	0.478930E+01	-0.353000E-01	0.288990E+01
17.600	-0.912400E+00	-0.216100E+00	0.465870E+01	-0.127000E-01	0.296910E+01
17.800	-0.824700E+00	-0.159700E+00	0.453040E+01	0.104000E-01	0.304280E+01
18.000	-0.745400E+00	-0.115300E+00	0.440580E+01	0.338000E-01	0.311120E+01
18.200	-0.673900E+00	-0.803000E-01	0.428560E+01	0.572000E-01	0.317440E+01
18.400	-0.609500E+00	-0.527000E-01	0.417060E+01	0.807000E-01	0.323250E+01

1
2
3 18.600 -0.551700E+00 -0.308000E-01 0.406120E+01 0.104000E+00 0.328580E+01
4 18.800 -0.499800E+00 -0.135000E-01 0.395770E+01 0.126900E+00 0.333430E+01
5 19.000 -0.453300E+00 0.200000E-03 0.386020E+01 0.149300E+00 0.337830E+01
6 19.200 -0.411600E+00 0.110000E-01 0.376880E+01 0.171000E+00 0.341800E+01
7 19.400 -0.374300E+00 0.195000E-01 0.368370E+01 0.191800E+00 0.345360E+01
8 19.600 -0.340800E+00 0.262000E-01 0.360480E+01 0.211300E+00 0.348520E+01
9 19.800 -0.310900E+00 0.315000E-01 0.353210E+01 0.229500E+00 0.351310E+01
10 20.000 -0.284100E+00 0.356000E-01 0.346550E+01 0.245900E+00 0.353720E+01
11 20.200 -0.260100E+00 0.387000E-01 0.340520E+01 0.260300E+00 0.355780E+01
12 20.400 -0.238500E+00 0.410000E-01 0.335090E+01 0.272400E+00 0.357500E+01
13 20.600 -0.219200E+00 0.427000E-01 0.330280E+01 0.281700E+00 0.358880E+01
14 20.800 -0.201800E+00 0.439000E-01 0.326070E+01 0.287700E+00 0.359940E+01
15 21.200 -0.172100E+00 0.451000E-01 0.319480E+01 0.288300E+00 0.361080E+01
16 21.400 -0.159500E+00 0.453000E-01 0.317100E+01 0.281700E+00 0.361160E+01
17 21.600 -0.148000E+00 0.453000E-01 0.315320E+01 0.269500E+00 0.360900E+01
18 22.000 -0.128300E+00 0.447000E-01 0.313610E+01 0.225300E+00 0.359350E+01
19 22.200 -0.119800E+00 0.442000E-01 0.313660E+01 0.191400E+00 0.358010E+01
20 22.400 -0.112000E+00 0.436000E-01 0.314320E+01 0.148200E+00 0.356270E+01
21 23.600 -0.778000E-01 0.390000E-01 0.328670E+01 0.384900E+00 0.334440E+01
22 24.000 -0.698000E-01 0.373000E-01 0.335030E+01 0.698500E+00 0.321050E+01
23 24.200 -0.662000E-01 0.365000E-01 0.337690E+01 0.882200E+00 0.312810E+01
24 24.400 -0.629000E-01 0.356000E-01 0.339710E+01 0.108140E+01 0.303430E+01
25 24.800 -0.570000E-01 0.339000E-01 0.341170E+01 0.150980E+01 0.281170E+01
26 25.000 -0.544000E-01 0.331000E-01 0.340480E+01 0.172830E+01 0.268370E+01
27 25.400 -0.496000E-01 0.315000E-01 0.336610E+01 0.214520E+01 0.240220E+01
28 25.600 -0.475000E-01 0.308000E-01 0.333750E+01 0.233410E+01 0.225360E+01
29 25.800 -0.455000E-01 0.300000E-01 0.330540E+01 0.250590E+01 0.210370E+01
30 26.000 -0.436000E-01 0.292000E-01 0.327130E+01 0.265920E+01 0.195560E+01
31 26.200 -0.418000E-01 0.285000E-01 0.323680E+01 0.279390E+01 0.181160E+01
32 26.400 -0.402000E-01 0.278000E-01 0.320290E+01 0.291080E+01 0.167380E+01
33 26.600 -0.386000E-01 0.271000E-01 0.317040E+01 0.301140E+01 0.154380E+01
34 26.800 -0.372000E-01 0.264000E-01 0.313980E+01 0.309740E+01 0.142230E+01
35 27.000 -0.358000E-01 0.257000E-01 0.311120E+01 0.317050E+01 0.130980E+01
36 27.200 -0.345000E-01 0.251000E-01 0.308470E+01 0.323260E+01 0.120630E+01
37 27.400 -0.333000E-01 0.245000E-01 0.306040E+01 0.328530E+01 0.111160E+01
38 27.600 -0.321000E-01 0.238000E-01 0.303820E+01 0.332990E+01 0.102520E+01
39 27.800 -0.311000E-01 0.232000E-01 0.301800E+01 0.336780E+01 0.946400E+00
40 28.000 -0.301000E-01 0.227000E-01 0.299950E+01 0.340010E+01 0.874700E+00
41 28.200 -0.291000E-01 0.221000E-01 0.298280E+01 0.342750E+01 0.809500E+00
42 28.400 -0.282000E-01 0.215000E-01 0.296760E+01 0.345100E+01 0.750200E+00
43 28.600 -0.273000E-01 0.210000E-01 0.295380E+01 0.347100E+01 0.696300E+00
44 28.800 -0.265000E-01 0.205000E-01 0.294130E+01 0.348820E+01 0.647200E+00
45 29.000 -0.257000E-01 0.200000E-01 0.292990E+01 0.350300E+01 0.602400E+00
46 29.200 -0.250000E-01 0.195000E-01 0.291950E+01 0.351580E+01 0.561500E+00
47 29.400 -0.243000E-01 0.190000E-01 0.291000E+01 0.352680E+01 0.524200E+00
48 29.600 -0.237000E-01 0.185000E-01 0.290140E+01 0.353630E+01 0.490000E+00
49 29.800 -0.230000E-01 0.181000E-01 0.289350E+01 0.354450E+01 0.458600E+00
50 30.000 -0.225000E-01 0.176000E-01 0.288630E+01 0.355170E+01 0.429800E+00
51 30.200 -0.219000E-01 0.172000E-01 0.287960E+01 0.355790E+01 0.403400E+00
52 30.400 -0.214000E-01 0.168000E-01 0.287350E+01 0.356330E+01 0.379000E+00
53 31.000 -0.199000E-01 0.156000E-01 0.285800E+01 0.357560E+01 0.316500E+00
54 31.400 -0.190000E-01 0.149000E-01 0.284960E+01 0.358140E+01 0.282200E+00
55 31.600 -0.186000E-01 0.145000E-01 0.284580E+01 0.358380E+01 0.266800E+00
56 31.800 -0.182000E-01 0.142000E-01 0.284230E+01 0.358590E+01 0.252600E+00
57 32.200 -0.175000E-01 0.135000E-01 0.283600E+01 0.358920E+01 0.227100E+00
58 32.400 -0.172000E-01 0.132000E-01 0.283300E+01 0.359050E+01 0.215400E+00
59 32.600 -0.168000E-01 0.129000E-01 0.283050E+01 0.359170E+01 0.204600E+00
60 32.800 -0.165000E-01 0.126000E-01 0.282800E+01 0.359270E+01 0.194100E+00
34.200 -0.145000E-01 0.107000E-01 0.281420E+01 0.359670E+01 0.138800E+00
34.400 -0.142000E-01 0.105000E-01 0.281260E+01 0.359690E+01 0.132500E+00

Table 3: $(3)^1\Sigma^+-(3-7)^1\Sigma^+$ transitions

R	3-3	3-4	3-5	3-6	3-7
3.000	-0.642300E+00	-0.101060E+01	0.217480E+01	-0.114510E+01	-0.200190E+01
3.200	-0.664200E+00	-0.103190E+01	0.225390E+01	-0.102450E+01	-0.215950E+01
3.400	-0.706100E+00	-0.105130E+01	0.234930E+01	-0.912000E+00	-0.220690E+01
3.800	-0.836000E+00	-0.108110E+01	0.260460E+01	-0.778800E+00	-0.218420E+01
4.000	-0.908600E+00	-0.109180E+01	0.276890E+01	-0.737400E+00	-0.216400E+01
4.200	-0.977200E+00	-0.110040E+01	0.295190E+01	-0.696200E+00	-0.215320E+01
4.400	-0.103760E+01	-0.110610E+01	0.314100E+01	-0.656700E+00	-0.215690E+01
4.600	-0.108720E+01	-0.110730E+01	0.332220E+01	-0.625400E+00	-0.217760E+01
4.800	-0.112430E+01	-0.110320E+01	0.348330E+01	-0.608800E+00	-0.221220E+01
5.200	-0.116270E+01	-0.107910E+01	0.371680E+01	-0.637900E+00	-0.230200E+01
5.400	-0.116830E+01	-0.105980E+01	0.378350E+01	-0.690900E+00	-0.234710E+01
5.600	-0.116830E+01	-0.103600E+01	0.381570E+01	-0.774500E+00	-0.238990E+01
5.800	-0.116460E+01	-0.100770E+01	0.381310E+01	-0.892300E+00	-0.243170E+01
6.000	-0.115850E+01	-0.974600E+00	0.377450E+01	-0.104670E+01	-0.247470E+01
6.200	-0.115060E+01	-0.936000E+00	0.369820E+01	-0.123760E+01	-0.252130E+01
6.400	-0.114080E+01	-0.891200E+00	0.358200E+01	-0.146090E+01	-0.257360E+01
6.600	-0.112850E+01	-0.838900E+00	0.342510E+01	-0.170730E+01	-0.263220E+01
6.800	-0.111260E+01	-0.777500E+00	0.323000E+01	-0.196400E+01	-0.269720E+01
7.000	-0.109150E+01	-0.704200E+00	0.300370E+01	-0.221530E+01	-0.276650E+01
7.200	-0.106340E+01	-0.615300E+00	0.275740E+01	-0.244770E+01	-0.283790E+01
7.400	-0.102620E+01	-0.506000E+00	0.250460E+01	-0.265200E+01	-0.290620E+01
7.600	-0.977900E+00	-0.371400E+00	0.225680E+01	-0.282580E+01	-0.296810E+01
7.800	-0.916300E+00	-0.213700E+00	0.201950E+01	-0.297160E+01	-0.302020E+01
8.000	-0.839800E+00	-0.552000E-01	0.179190E+01	-0.309480E+01	-0.306060E+01
8.200	-0.747100E+00	0.599000E-01	0.157610E+01	-0.320210E+01	-0.308960E+01
8.400	-0.637800E+00	0.102600E+00	0.138240E+01	-0.330010E+01	-0.310690E+01
8.600	-0.512000E+00	0.825000E-01	0.121740E+01	-0.339460E+01	-0.311340E+01
8.800	-0.370600E+00	0.270000E-01	0.107720E+01	-0.349050E+01	-0.310970E+01
9.000	-0.215600E+00	-0.410000E-01	0.954400E+00	-0.359160E+01	-0.309650E+01
9.200	-0.492000E-01	-0.106200E+00	0.842500E+00	-0.370060E+01	-0.307400E+01
9.400	0.125500E+00	-0.159900E+00	0.736700E+00	-0.381910E+01	-0.304200E+01
9.600	0.305300E+00	-0.196900E+00	0.634500E+00	-0.394730E+01	-0.299970E+01
9.800	0.486900E+00	-0.214800E+00	0.534700E+00	-0.408480E+01	-0.294650E+01
10.000	0.666700E+00	-0.212600E+00	0.437500E+00	-0.423030E+01	-0.288150E+01
10.200	0.841600E+00	-0.190600E+00	0.344000E+00	-0.438150E+01	-0.280390E+01
10.400	0.100830E+01	-0.149600E+00	0.256100E+00	-0.453590E+01	-0.271230E+01
10.600	0.116420E+01	-0.911000E-01	0.175600E+00	-0.469050E+01	-0.260550E+01
10.800	0.130660E+01	0.164000E-01	0.104500E+00	-0.484160E+01	-0.248120E+01
11.000	0.143340E+01	0.727000E-01	0.443000E-01	-0.498570E+01	-0.233820E+01
11.200	0.154240E+01	0.174900E+00	0.410000E-02	-0.511880E+01	-0.217530E+01
11.400	0.163190E+01	0.288900E+00	-0.405000E-01	-0.523730E+01	-0.199540E+01
11.600	0.170040E+01	0.414100E+00	-0.652000E-01	-0.533800E+01	-0.180470E+01
11.800	0.174630E+01	0.549700E+00	-0.789000E-01	-0.541880E+01	-0.161300E+01
12.000	0.176830E+01	0.695700E+00	-0.827000E-01	-0.547960E+01	-0.143230E+01
12.200	0.176520E+01	0.852100E+00	-0.781000E-01	-0.552080E+01	-0.127200E+01
12.400	0.173580E+01	0.101930E+01	-0.663000E-01	-0.554490E+01	-0.113980E+01
12.600	0.167890E+01	0.119780E+01	-0.489000E-01	-0.555450E+01	-0.103880E+01
12.800	0.159360E+01	0.138790E+01	-0.273000E-01	-0.555230E+01	-0.968800E+00
13.000	0.147890E+01	0.159010E+01	0.260000E-02	-0.554060E+01	-0.926700E+00
13.200	0.133450E+01	0.180390E+01	0.240000E-01	-0.552110E+01	-0.906900E+00
13.400	0.116040E+01	0.202850E+01	0.517000E-01	-0.549550E+01	-0.901900E+00
13.600	0.958100E+00	0.226180E+01	0.797000E-01	-0.546580E+01	-0.901600E+00
13.800	0.731000E+00	0.250030E+01	0.107500E+00	-0.543380E+01	-0.892000E+00
14.000	0.485400E+00	0.273910E+01	0.134400E+00	-0.540210E+01	-0.853500E+00
14.200	0.230900E+00	0.297140E+01	0.160000E+00	-0.537370E+01	-0.758000E+00
14.400	-0.179000E-01	0.318910E+01	0.183300E+00	-0.534840E+01	-0.559700E+00
14.600	-0.242700E+00	0.338250E+01	0.203500E+00	-0.531600E+01	-0.186700E+00
14.800	-0.422100E+00	0.354000E+01	0.219400E+00	-0.522820E+01	0.466800E+00
15.000	-0.534600E+00	0.364770E+01	0.229400E+00	-0.495440E+01	0.145630E+01
15.200	-0.564000E+00	0.368940E+01	0.232100E+00	-0.438540E+01	0.252820E+01
15.400	-0.505500E+00	0.364830E+01	0.226400E+00	-0.368660E+01	0.329310E+01
15.600	-0.372000E+00	0.351270E+01	0.211900E+00	-0.304440E+01	0.372400E+01
15.800	-0.193000E+00	0.328370E+01	0.189600E+00	-0.248690E+01	0.395170E+01
16.000	-0.600000E-02	0.298030E+01	0.161800E+00	-0.200010E+01	0.406250E+01
16.200	0.157700E+00	0.263530E+01	0.131400E+00	-0.157760E+01	0.410130E+01
16.400	0.281500E+00	0.228410E+01	0.101400E+00	-0.121910E+01	0.409340E+01
16.600	0.363600E+00	0.195310E+01	0.735000E-01	-0.922100E+00	0.405630E+01
16.800	0.410300E+00	0.165770E+01	0.489000E-01	-0.681200E+00	0.400150E+01
17.000	0.430600E+00	0.140300E+01	0.277000E-01	-0.488800E+00	0.393720E+01
17.200	0.432900E+00	0.118790E+01	0.100000E-01	-0.336400E+00	0.386880E+01
17.400	0.423700E+00	0.100850E+01	0.480000E-02	-0.216700E+00	0.379860E+01
17.600	0.407600E+00	0.859500E+00	-0.170000E-01	-0.122500E+00	0.373080E+01
17.800	0.387700E+00	0.736100E+00	-0.270000E-01	-0.487000E-01	0.366560E+01
18.000	0.366100E+00	0.633700E+00	-0.353000E-01	0.890000E-02	0.360380E+01
18.200	0.344100E+00	0.548700E+00	-0.419000E-01	0.538000E-01	0.354500E+01
18.400	0.322500E+00	0.477800E+00	-0.474000E-01	0.888000E-01	0.349080E+01

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3	18.600	0.301600E+00	0.418600E+00	-0.517000E-01	0.115800E+00	0.344080E+01
4	18.800	0.281900E+00	0.368900E+00	-0.552000E-01	0.136500E+00	0.339470E+01
5	19.000	0.263400E+00	0.327100E+00	-0.579000E-01	0.152200E+00	0.335190E+01
6	19.200	0.246200E+00	0.291800E+00	-0.600000E-01	0.163900E+00	0.331320E+01
7	19.400	0.230300E+00	0.262000E+00	-0.616000E-01	0.172300E+00	0.327780E+01
8	19.600	0.215500E+00	0.236600E+00	-0.626000E-01	0.178200E+00	0.324530E+01
9	19.800	0.201900E+00	0.215000E+00	-0.633000E-01	0.182000E+00	0.321550E+01
10	20.000	0.189400E+00	0.196600E+00	-0.636000E-01	0.184100E+00	0.318770E+01
11	20.200	0.177800E+00	0.181000E+00	-0.636000E-01	0.184900E+00	0.316170E+01
12	20.400	0.167200E+00	0.167600E+00	-0.632000E-01	0.184600E+00	0.313690E+01
13	20.600	0.157400E+00	0.156200E+00	-0.626000E-01	0.183500E+00	0.311190E+01
14	20.800	0.148400E+00	0.146400E+00	-0.618000E-01	0.181700E+00	0.308240E+01
15	21.200	0.132500E+00	0.131100E+00	-0.594000E-01	0.176500E+00	0.335800E+00
16	21.400	0.125400E+00	0.125200E+00	-0.578000E-01	0.173400E+00	0.144600E+00
17	21.600	0.118900E+00	0.120200E+00	-0.560000E-01	0.170000E+00	0.915000E-01
18	22.000	0.107200E+00	0.112700E+00	-0.516000E-01	0.162600E+00	0.554000E-01
19	22.200	0.102000E+00	0.110000E+00	-0.490000E-01	0.158700E+00	0.478000E-01
20	22.400	0.972000E-01	0.107800E+00	-0.462000E-01	0.154800E+00	0.429000E-01
21	23.600	0.744000E-01	0.104100E+00	-0.212000E-01	0.129200E+00	0.332000E-01
22	24.000	0.687000E-01	0.104400E+00	-0.940000E-02	0.120100E+00	0.319000E-01
23	24.200	0.660000E-01	0.104600E+00	-0.280000E-02	0.115200E+00	0.315000E-01
24	24.400	0.635000E-01	0.104600E+00	0.400000E-02	0.110200E+00	0.310000E-01
25	24.800	0.590000E-01	0.103900E+00	0.182000E-01	0.996000E-01	0.302000E-01
26	25.000	0.569000E-01	0.103000E+00	0.251000E-01	0.941000E-01	0.298000E-01
27	25.400	0.530000E-01	0.100400E+00	0.377000E-01	0.827000E-01	0.291000E-01
28	25.600	0.512000E-01	0.986000E-01	0.430000E-01	0.772000E-01	0.287000E-01
29	25.800	0.495000E-01	0.967000E-01	0.478000E-01	0.716000E-01	0.283000E-01
30	26.000	0.479000E-01	0.947000E-01	0.518000E-01	0.661000E-01	0.280000E-01
31	26.200	0.464000E-01	0.926000E-01	0.551000E-01	0.610000E-01	0.276000E-01
32	26.400	0.450000E-01	0.905000E-01	0.577000E-01	0.562000E-01	0.271000E-01
33	26.600	0.436000E-01	0.884000E-01	0.598000E-01	0.517000E-01	0.266000E-01
34	26.800	0.423000E-01	0.863000E-01	0.613000E-01	0.476000E-01	0.261000E-01
35	27.000	0.410000E-01	0.843000E-01	0.624000E-01	0.439000E-01	0.255000E-01
36	27.200	0.398000E-01	0.823000E-01	0.631000E-01	0.404000E-01	0.250000E-01
37	27.400	0.386000E-01	0.804000E-01	0.636000E-01	0.372000E-01	0.245000E-01
38	27.600	0.375000E-01	0.785000E-01	0.637000E-01	0.343000E-01	0.240000E-01
39	27.800	0.365000E-01	0.767000E-01	0.637000E-01	0.317000E-01	0.235000E-01
40	28.000	0.355000E-01	0.750000E-01	0.635000E-01	0.293000E-01	0.230000E-01
41	28.200	0.345000E-01	0.733000E-01	0.631000E-01	0.271000E-01	0.225000E-01
42	28.400	0.336000E-01	0.717000E-01	0.626000E-01	0.252000E-01	0.220000E-01
43	28.600	0.327000E-01	0.701000E-01	0.621000E-01	0.234000E-01	0.215000E-01
44	28.800	0.318000E-01	0.686000E-01	0.614000E-01	0.218000E-01	0.210000E-01
45	29.000	0.310000E-01	0.672000E-01	0.608000E-01	0.203000E-01	0.205000E-01
46	29.200	0.302000E-01	0.658000E-01	0.600000E-01	0.190000E-01	0.200000E-01
47	29.400	0.295000E-01	0.644000E-01	0.593000E-01	0.177000E-01	0.195000E-01
48	29.600	0.288000E-01	0.631000E-01	0.585000E-01	0.166000E-01	0.191000E-01
49	29.800	0.281000E-01	0.619000E-01	0.577000E-01	0.155000E-01	0.186000E-01
50	30.000	0.274000E-01	0.606000E-01	0.569000E-01	0.145000E-01	0.182000E-01
51	30.200	0.267000E-01	0.594000E-01	0.560000E-01	0.136000E-01	0.177000E-01
52	30.400	0.261000E-01	0.583000E-01	0.552000E-01	0.128000E-01	0.173000E-01
53	31.000	0.244000E-01	0.550000E-01	0.527000E-01	0.106000E-01	0.160000E-01
54	31.200	0.238000E-01	0.540000E-01	0.519000E-01	0.100000E-01	0.156000E-01
55	31.400	0.233000E-01	0.529000E-01	0.511000E-01	0.950000E-02	0.152000E-01
56	31.600	0.228000E-01	0.520000E-01	0.503000E-01	0.900000E-02	0.148000E-01
57	31.800	0.223000E-01	0.510000E-01	0.495000E-01	0.860000E-02	0.144000E-01
58	32.000	0.218000E-01	0.501000E-01	0.488000E-01	0.810000E-02	0.140000E-01
59	32.200	0.214000E-01	0.492000E-01	0.480000E-01	0.750000E-02	0.138000E-01
60	32.400	0.209000E-01	0.483000E-01	0.472000E-01	0.730000E-02	0.133000E-01
	32.600	0.205000E-01	0.474000E-01	0.465000E-01	0.690000E-02	0.130000E-01
	32.800	0.201000E-01	0.466000E-01	0.458000E-01	0.660000E-02	0.126000E-01
	33.000	0.197000E-01	0.458000E-01	0.450000E-01	0.620000E-02	0.124000E-01
	34.200	0.175000E-01	0.413000E-01	0.410000E-01	0.440000E-02	0.107000E-01
	34.400	0.172000E-01	0.406000E-01	0.403000E-01	0.410000E-02	0.105000E-01

Table 4: $(4)^1\Sigma^+ - (4-7)^1\Sigma^+$ transitions

R	4-4	4-5	4-6	4-7
3.000	-0.757200E+00	-0.547970E+01	0.114700E+01	-0.772600E+00
3.200	-0.820400E+00	-0.536920E+01	0.139060E+01	-0.928000E+00
3.400	-0.860000E+00	-0.522430E+01	0.170650E+01	-0.100910E+01
3.800	-0.923200E+00	-0.483740E+01	0.236540E+01	-0.108010E+01
4.000	-0.958200E+00	-0.462500E+01	0.262450E+01	-0.111000E+01
4.200	-0.991500E+00	-0.442090E+01	0.282420E+01	-0.114380E+01
4.400	-0.101690E+01	-0.423480E+01	0.297750E+01	-0.118150E+01
4.600	-0.103150E+01	-0.407260E+01	0.310080E+01	-0.122530E+01
4.800	-0.103680E+01	-0.393790E+01	0.320790E+01	-0.127560E+01
5.200	-0.103250E+01	-0.374930E+01	0.341420E+01	-0.138590E+01
5.400	-0.102770E+01	-0.368950E+01	0.352580E+01	-0.143820E+01
5.600	-0.102130E+01	-0.364500E+01	0.364930E+01	-0.148630E+01
5.800	-0.101190E+01	-0.360890E+01	0.378810E+01	-0.153110E+01
6.000	-0.996200E+00	-0.357320E+01	0.394570E+01	-0.157620E+01
6.200	-0.970500E+00	-0.353200E+01	0.412400E+01	-0.162560E+01
6.400	-0.929200E+00	-0.348110E+01	0.432340E+01	-0.168370E+01
6.600	-0.865000E+00	-0.342000E+01	0.454190E+01	-0.175390E+01
6.800	-0.768200E+00	-0.335610E+01	0.477480E+01	-0.183930E+01
7.000	-0.623500E+00	-0.330020E+01	0.501500E+01	-0.193990E+01
7.200	-0.408000E+00	-0.326660E+01	0.525400E+01	-0.205360E+01
7.400	-0.877000E-01	-0.326260E+01	0.548040E+01	-0.217200E+01
7.600	0.382300E+00	-0.327060E+01	0.567390E+01	-0.228030E+01
7.800	0.103040E+01	-0.321900E+01	0.579200E+01	-0.234930E+01
8.000	0.178650E+01	-0.298750E+01	0.577210E+01	-0.234320E+01
8.200	0.243760E+01	-0.253080E+01	0.558960E+01	-0.225630E+01
8.400	0.280960E+01	-0.197660E+01	0.530770E+01	-0.214130E+01
8.600	0.291660E+01	-0.147280E+01	0.500920E+01	-0.206050E+01
8.800	0.285470E+01	-0.106990E+01	0.473180E+01	-0.204320E+01
9.000	0.269940E+01	-0.758100E+00	0.447850E+01	-0.209270E+01
9.200	0.249230E+01	-0.514700E+00	0.424070E+01	-0.220280E+01
9.400	0.225420E+01	-0.320600E+00	0.400910E+01	-0.236440E+01
9.600	0.199540E+01	-0.163000E+00	0.377700E+01	-0.256850E+01
9.800	0.172120E+01	-0.339000E-01	0.353990E+01	-0.280770E+01
10.000	0.143500E+01	0.720000E-01	0.329540E+01	-0.307530E+01
10.200	0.113890E+01	0.158000E+00	0.304330E+01	-0.336590E+01
10.400	0.835300E+00	0.226900E+00	0.278430E+01	-0.367500E+01
10.600	0.525800E+00	0.281000E+00	0.252010E+01	-0.399830E+01
10.800	0.212600E+00	0.322500E+00	0.225300E+01	-0.432920E+01
11.000	-0.102900E+00	0.353900E+00	0.198580E+01	-0.465970E+01
11.200	-0.418800E+00	0.377200E+00	0.172220E+01	-0.497740E+01
11.400	-0.734100E+00	0.394800E+00	0.146600E+01	-0.526920E+01
11.600	-0.104790E+01	0.408300E+00	0.122270E+01	-0.552280E+01
11.800	-0.135930E+01	0.419200E+00	0.998200E+00	-0.573160E+01
12.000	-0.166790E+01	0.428800E+00	0.797800E+00	-0.589650E+01
12.200	-0.197270E+01	0.437400E+00	0.626200E+00	-0.602030E+01
12.400	-0.227360E+01	0.445900E+00	0.485000E+00	-0.611110E+01
12.600	-0.256970E+01	0.454700E+00	0.373900E+00	-0.617600E+01
12.800	-0.286030E+01	0.464100E+00	0.289900E+00	-0.622110E+01
13.000	-0.314450E+01	0.474200E+00	0.228300E+00	-0.625110E+01
13.200	-0.342130E+01	0.485200E+00	0.182300E+00	-0.626910E+01
13.400	-0.368980E+01	0.497100E+00	0.143300E+00	-0.627750E+01
13.600	-0.395000E+01	0.510300E+00	0.100500E+00	-0.627790E+01
13.800	-0.420340E+01	0.524800E+00	0.388000E-01	-0.627150E+01
14.000	-0.445360E+01	0.540800E+00	0.629000E-01	-0.625880E+01
14.200	-0.470770E+01	0.559000E+00	0.235000E+00	-0.623810E+01
14.400	-0.497670E+01	0.579400E+00	0.527800E+00	-0.620210E+01
14.600	-0.527560E+01	0.603000E+00	0.101980E+01	-0.612290E+01
14.800	-0.562200E+01	0.630300E+00	0.182410E+01	-0.591950E+01
15.000	-0.603370E+01	0.662100E+00	0.298350E+01	-0.542170E+01
15.200	-0.652340E+01	0.698800E+00	0.419200E+01	-0.455760E+01
15.400	-0.709270E+01	0.740400E+00	0.504160E+01	-0.362110E+01
15.600	-0.772540E+01	0.786600E+00	0.554090E+01	-0.284700E+01
15.800	-0.838940E+01	0.836300E+00	0.584120E+01	-0.223830E+01
16.000	-0.904540E+01	0.888300E+00	0.603110E+01	-0.174980E+01
16.200	-0.965970E+01	0.941400E+00	0.615110E+01	-0.135350E+01
16.400	-0.102159E+02	0.995900E+00	0.622610E+01	-0.103310E+01
16.600	-0.107107E+02	0.105160E+01	0.627080E+01	-0.777400E+00
16.800	-0.111503E+02	0.110900E+01	0.629680E+01	-0.576100E+00
17.000	-0.115438E+02	0.116850E+01	0.631220E+01	-0.419200E+00
17.200	-0.118998E+02	0.123060E+01	0.632280E+01	-0.297500E+00
17.400	-0.122254E+02	0.129570E+01	0.633210E+01	-0.203400E+00
17.600	-0.125257E+02	0.136380E+01	0.634280E+01	-0.131000E+00
17.800	-0.128047E+02	0.143530E+01	0.635630E+01	-0.752000E-01
18.000	-0.130650E+02	0.151030E+01	0.637370E+01	-0.324000E-01
18.200	-0.133085E+02	0.158920E+01	0.639550E+01	0.500000E-03
18.400	-0.135369E+02	0.167200E+01	0.642230E+01	0.257000E-01

18.600	-0.137510E+02	0.175900E+01	0.645440E+01	0.448000E-01
18.800	-0.139517E+02	0.185040E+01	0.649210E+01	0.593000E-01
19.000	-0.141394E+02	0.194650E+01	0.653550E+01	0.702000E-01
19.200	-0.143143E+02	0.204750E+01	0.658500E+01	0.782000E-01
19.400	-0.144766E+02	0.215370E+01	0.664080E+01	0.841000E-01
19.600	-0.146260E+02	0.226540E+01	0.670300E+01	0.883000E-01
19.800	-0.147624E+02	0.238290E+01	0.677190E+01	0.913000E-01
20.000	-0.148851E+02	0.250660E+01	0.684780E+01	0.937000E-01
20.200	-0.149935E+02	0.263670E+01	0.693090E+01	0.958000E-01
20.400	-0.150865E+02	0.277370E+01	0.702150E+01	0.987000E-01
20.600	-0.151630E+02	0.291790E+01	0.712000E+01	0.104400E+00
20.800	-0.152215E+02	0.306970E+01	0.722670E+01	0.121200E+00
21.200	-0.152767E+02	0.339770E+01	0.746600E+01	0.486200E+00
21.400	-0.152685E+02	0.357440E+01	0.759910E+01	0.384300E+00
21.600	-0.152325E+02	0.376000E+01	0.774140E+01	0.273500E+00
22.000	-0.150619E+02	0.415750E+01	0.805370E+01	0.193000E-01
22.200	-0.149179E+02	0.436860E+01	0.822310E+01	0.127200E+00
22.400	-0.147277E+02	0.458650E+01	0.840020E+01	0.288900E+00
23.600	-0.122382E+02	0.583650E+01	0.948190E+01	0.165460E+01
24.000	-0.107704E+02	0.603840E+01	0.971700E+01	0.227390E+01
24.200	-0.992550E+01	0.604250E+01	0.977190E+01	0.260370E+01
24.400	-0.902830E+01	0.596540E+01	0.977270E+01	0.293990E+01
24.800	-0.718010E+01	0.554920E+01	0.958850E+01	0.360180E+01
25.000	-0.628690E+01	0.522120E+01	0.940160E+01	0.391220E+01
25.400	-0.468520E+01	0.440830E+01	0.886590E+01	0.446320E+01
25.600	-0.400490E+01	0.396790E+01	0.853740E+01	0.469810E+01
25.800	-0.341080E+01	0.353230E+01	0.818390E+01	0.490570E+01
26.000	-0.289970E+01	0.311710E+01	0.781670E+01	0.508760E+01
26.200	-0.246460E+01	0.273290E+01	0.744570E+01	0.524600E+01
26.400	-0.209690E+01	0.238520E+01	0.707890E+01	0.538360E+01
26.600	-0.178740E+01	0.207600E+01	0.672230E+01	0.550310E+01
26.800	-0.152730E+01	0.180450E+01	0.638020E+01	0.560730E+01
27.000	-0.130880E+01	0.156830E+01	0.605540E+01	0.569840E+01
27.200	-0.112500E+01	0.136400E+01	0.574920E+01	0.577820E+01
27.400	-0.970000E+00	0.118800E+01	0.546240E+01	0.584840E+01
27.600	-0.839000E+00	0.103670E+01	0.519470E+01	0.591050E+01
27.800	-0.728000E+00	0.906800E+00	0.494560E+01	0.596560E+01
28.000	-0.633600E+00	0.795200E+00	0.471420E+01	0.601470E+01
28.200	-0.553000E+00	0.699300E+00	0.449960E+01	0.605860E+01
28.400	-0.483900E+00	0.616600E+00	0.430070E+01	0.609800E+01
28.600	-0.424700E+00	0.545400E+00	0.411640E+01	0.613350E+01
28.800	-0.373600E+00	0.483800E+00	0.394560E+01	0.616560E+01
29.000	-0.329400E+00	0.430400E+00	0.378740E+01	0.619470E+01
29.200	-0.291100E+00	0.384000E+00	0.364080E+01	0.622100E+01
29.400	-0.257800E+00	0.343700E+00	0.350490E+01	0.624490E+01
29.600	-0.228800E+00	0.308400E+00	0.337900E+01	0.626670E+01
29.800	-0.203400E+00	0.277600E+00	0.326220E+01	0.628650E+01
30.000	-0.181200E+00	0.250500E+00	0.315380E+01	0.630450E+01
30.200	-0.161600E+00	0.226800E+00	0.305340E+01	0.632090E+01
30.400	-0.144400E+00	0.205800E+00	0.296040E+01	0.633580E+01
31.000	-0.103900E+00	0.156300E+00	0.272110E+01	0.637250E+01
31.200	-0.933000E-01	0.143400E+00	0.265000E+01	0.638240E+01
31.400	-0.839000E-01	0.131800E+00	0.259090E+01	0.639120E+01
31.600	-0.756000E-01	0.121500E+00	0.253370E+01	0.639900E+01
31.800	-0.681000E-01	0.112300E+00	0.248160E+01	0.640570E+01
32.000	-0.614000E-01	0.104000E+00	0.243420E+01	0.641160E+01
32.200	-0.554000E-01	0.965000E-01	0.239130E+01	0.641640E+01
32.400	-0.500000E-01	0.898000E-01	0.235310E+01	0.642040E+01
32.600	-0.452000E-01	0.837000E-01	0.231930E+01	0.642340E+01
32.800	-0.408000E-01	0.782000E-01	0.228990E+01	0.642540E+01
33.000	-0.369000E-01	0.733000E-01	0.226480E+01	0.642660E+01
34.200	-0.200000E-01	0.515000E-01	0.221260E+01	0.640980E+01
34.400	-0.180000E-01	0.489000E-01	0.222220E+01	0.640200E+01

Table 5: $(1)^3\Sigma^+ - (1-7)^3\Sigma^+$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	0.782000E-01	0.345180E+01	0.323000E-01	0.819000E-01	-0.459000E-01	0.486200E+00	0.172700E+00
3.200	0.624000E-01	0.346710E+01	0.888000E-01	0.155700E+00	-0.482000E-01	0.532900E+00	0.173000E+00
3.400	0.721000E-01	0.349270E+01	0.123800E+00	0.219000E+00	-0.299000E-01	0.570600E+00	0.177300E+00
3.800	0.140400E+00	0.359530E+01	-0.455000E-01	0.310200E+00	-0.967000E-01	0.602200E+00	0.193600E+00
4.000	0.185000E+00	0.366650E+01	-0.115100E+00	0.336200E+00	-0.299600E+00	0.531300E+00	0.202500E+00
4.200	0.229200E+00	0.373320E+01	-0.365500E+00	0.348900E+00	-0.541000E+00	0.248700E+00	0.211100E+00
4.400	0.269200E+00	0.378120E+01	-0.662600E+00	0.349600E+00	-0.558400E+00	0.994000E-01	0.219600E+00
4.600	0.302300E+00	0.381350E+01	-0.937000E+00	0.341400E+00	-0.527200E+00	0.361000E-01	0.228100E+00
4.800	0.327100E+00	0.384500E+01	-0.114510E+01	0.327700E+00	-0.484100E+00	-0.370000E-02	0.237100E+00
5.200	0.350600E+00	0.393480E+01	-0.136110E+01	0.296500E+00	-0.392900E+00	-0.155000E-01	0.254400E+00
5.400	0.350500E+00	0.399060E+01	-0.139700E+01	0.282700E+00	-0.351800E+00	-0.110000E-01	0.261400E+00
5.600	0.343900E+00	0.404870E+01	-0.140190E+01	0.271500E+00	-0.315700E+00	-0.100000E-02	0.266300E+00
5.800	0.332100E+00	0.410600E+01	-0.138430E+01	0.263100E+00	-0.285200E+00	0.121000E-01	0.268800E+00
6.000	0.316300E+00	0.416030E+01	-0.135020E+01	0.257600E+00	-0.260600E+00	0.269000E-01	0.269000E+00
6.200	0.297700E+00	0.421010E+01	-0.130410E+01	0.254700E+00	-0.241600E+00	0.426000E-01	0.267200E+00
6.400	0.277100E+00	0.425470E+01	-0.124900E+01	0.254400E+00	-0.228100E+00	0.591000E-01	0.263800E+00
6.600	0.255500E+00	0.429340E+01	-0.118740E+01	0.256300E+00	-0.220000E+00	0.767000E-01	0.259200E+00
6.800	0.233300E+00	0.432620E+01	-0.112100E+01	0.260200E+00	-0.217500E+00	0.961000E-01	0.253900E+00
7.000	0.211200E+00	0.435290E+01	-0.105130E+01	0.266000E+00	-0.220900E+00	0.118500E+00	0.248500E+00
7.200	0.189600E+00	0.437380E+01	-0.979200E+00	0.273700E+00	-0.231200E+00	0.145700E+00	0.244000E+00
7.400	0.168700E+00	0.438910E+01	-0.905500E+00	0.283000E+00	-0.250700E+00	0.179800E+00	0.244100E+00
7.600	0.148700E+00	0.439890E+01	-0.830600E+00	0.294200E+00	-0.283700E+00	0.222100E+00	0.279500E+00
7.800	0.129900E+00	0.440370E+01	-0.754800E+00	0.307500E+00	-0.337800E+00	0.266900E+00	0.501500E+00
8.000	0.112400E+00	0.440380E+01	-0.677800E+00	0.323300E+00	-0.421600E+00	0.290000E+00	0.433500E+00
8.200	0.961000E-01	0.439970E+01	-0.599500E+00	0.342100E+00	-0.525700E+00	0.257100E+00	0.360100E+00
8.400	0.812000E-01	0.439160E+01	-0.519000E+00	0.365100E+00	-0.611900E+00	0.184900E+00	0.294800E+00
8.600	0.677000E-01	0.438000E+01	-0.435300E+00	0.393900E+00	-0.664700E+00	0.120400E+00	0.246200E+00
8.800	0.555000E-01	0.436520E+01	-0.346900E+00	0.430700E+00	-0.693500E+00	0.766000E-01	0.212700E+00
9.000	0.445000E-01	0.434770E+01	-0.252100E+00	0.479300E+00	-0.703700E+00	-0.481000E-01	0.190000E+00
9.200	0.348000E-01	0.432760E+01	-0.148600E+00	0.544300E+00	-0.691500E+00	-0.293000E-01	0.174600E+00
9.400	0.262000E-01	0.430540E+01	-0.344000E-01	0.629300E+00	-0.645000E+00	-0.166000E-01	0.164200E+00
9.600	0.187000E-01	0.428130E+01	0.911000E-01	0.726500E+00	-0.550700E+00	-0.790000E-02	0.157100E+00
9.800	0.122000E-01	0.425550E+01	0.226200E+00	0.806900E+00	-0.415900E+00	-0.180000E-02	0.152200E+00
10.000	0.660000E-02	0.422840E+01	0.365400E+00	0.842000E+00	-0.279500E+00	-0.260000E-02	0.148800E+00
10.200	0.190000E-02	0.420000E+01	0.501300E+00	0.833700E+00	-0.171600E+00	-0.560000E-02	0.146500E+00
10.400	-0.210000E-02	0.417060E+01	0.626900E+00	0.798700E+00	-0.944000E-01	-0.780000E-02	0.144900E+00
10.600	-0.540000E-02	0.414030E+01	0.739300E+00	0.751500E+00	-0.396000E-01	-0.930000E-02	0.143800E+00
10.800	-0.810000E-02	0.410940E+01	0.838400E+00	0.700900E+00	0.000000E+00	-0.103000E-01	0.143200E+00
11.000	-0.103000E-01	0.407790E+01	0.926300E+00	0.651500E+00	0.298000E-01	-0.107000E-01	0.142900E+00
11.200	-0.119000E-01	0.404600E+01	0.100520E+01	0.605200E+00	0.530000E-01	-0.108000E-01	0.143100E+00
11.400	-0.132000E-01	0.401380E+01	0.107710E+01	0.562800E+00	0.720000E-01	-0.105000E-01	0.143600E+00
11.600	-0.140000E-01	0.398150E+01	0.114370E+01	0.524100E+00	0.882000E-01	-0.990000E-02	0.144600E+00
11.800	-0.145000E-01	0.394920E+01	0.120600E+01	0.488700E+00	0.102800E+00	-0.890000E-02	0.146000E+00
12.000	-0.147000E-01	0.391700E+01	0.126480E+01	0.456000E+00	0.116500E+00	-0.770000E-02	0.147900E+00
12.200	-0.147000E-01	0.388500E+01	0.132050E+01	0.425400E+00	0.130100E+00	-0.620000E-02	0.150100E+00
12.400	-0.145000E-01	0.385330E+01	0.137360E+01	0.396300E+00	0.143700E+00	-0.450000E-02	0.152700E+00
12.600	-0.141000E-01	0.382210E+01	0.142420E+01	0.368200E+00	0.157500E+00	-0.260000E-02	0.155700E+00
12.800	-0.135000E-01	0.379140E+01	0.147250E+01	0.340600E+00	0.171100E+00	-0.700000E-03	0.158900E+00
13.000	-0.128000E-01	0.376140E+01	0.151850E+01	0.313600E+00	0.183800E+00	0.130000E-02	0.162200E+00
13.200	-0.121000E-01	0.373200E+01	0.156240E+01	0.287300E+00	0.195000E+00	0.320000E-02	0.165700E+00
13.400	-0.112000E-01	0.370340E+01	0.160410E+01	0.262200E+00	0.203800E+00	0.500000E-02	0.169100E+00
13.600	-0.104000E-01	0.367560E+01	0.164390E+01	0.238800E+00	0.210100E+00	0.660000E-02	0.172500E+00
13.800	-0.950000E-02	0.364870E+01	0.168170E+01	0.217500E+00	0.213600E+00	0.770000E-02	0.175800E+00
14.000	-0.860000E-02	0.362260E+01	0.171750E+01	0.198500E+00	0.214700E+00	0.790000E-02	0.179000E+00
14.200	-0.760000E-02	0.359740E+01	0.175150E+01	0.181800E+00	0.213900E+00	0.510000E-02	0.182100E+00
14.400	-0.670000E-02	0.357320E+01	0.178380E+01	0.167100E+00	0.211500E+00	0.249000E-01	0.183200E+00
14.600	-0.590000E-02	0.354990E+01	0.181430E+01	0.154300E+00	0.208100E+00	0.183000E+00	0.140400E-01
14.800	-0.500000E-02	0.352740E+01	0.184320E+01	0.142900E+00	0.203800E+00	0.187200E+00	0.299000E-01
15.000	-0.420000E-02	0.350590E+01	0.187050E+01	0.132900E+00	0.198900E+00	0.189500E+00	0.282000E-01
15.200	-0.340000E-02	0.348520E+01	0.189640E+01	0.123900E+00	0.193700E+00	0.191300E+00	0.280000E-01
15.400	-0.260000E-02	0.346540E+01	0.192090E+01	0.115800E+00	0.188300E+00	0.192800E+00	0.282000E-01
15.600	-0.190000E-02	0.344640E+01	0.194400E+01	0.108500E+00	0.182700E+00	0.194100E+00	0.285000E-01
15.800	-0.120000E-02	0.342820E+01	0.196590E+01	0.101800E+00	0.177100E+00	0.195100E+00	0.288000E-01
16.000	-0.600000E-03	0.341080E+01	0.198660E+01	0.956000E-01	0.171500E+00	0.196000E+00	0.290000E-01
16.400	0.600000E-03	0.337820E+01	0.202480E+01	0.846000E-01	0.160500E+00	0.197300E+00	0.288000E-01
16.600	0.110000E-02	0.336290E+01	0.204240E+01	0.796000E-01	0.155200E+00	0.197700E+00	0.285000E-01
16.800	0.160000E-02	0.334830E+01	0.205910E+01	0.750000E-01	0.149900E+00	0.198000E+00	0.280000E-01
17.000	0.210000E-02	0.333430E+01	0.207490E+01	0.706000E-01	0.144800E+00	0.198300E+00	0.273000E-01
17.200	0.250000E-02	0.332090E+01	0.208990E+01	0.665000E-01	0.139800E+00	0.198500E+00	0.265000E-01
17.400	0.290000E-02	0.330800E+01	0.210420E+01	0.627000E-01	0.135000E+00	0.198500E+00	0.257000E-01
17.600	0.320000E-02	0.329570E+01	0.211780E+01	0.590000E-01	0.130300E+00	0.198600E+00	0.247000E-01
17.800	0.350000E-02	0.328390E+01	0.213070E+01	0.556000E-01	0.125700E+00	0.198500E+00	0.237000E-01
18.000	0.380000E-02	0.327250E+01	0.214300E+01	0.523000E-01	0.121300E+00	0.198500E+00	0.226000E-01
18.200	0.410000E-02	0.326160E+01	0.215470E+01	0.493000E-01	0.117000E+00	0.198400E+00	0.215000E-01
18.400	0.440000E-02	0.325120E+01	0.216590E+01	0.464000E-01	0.112900E+00	0.198200E+00	0.204000E-01
18.600	0.460000E-02	0.324110E+01	0.217650E+01	0.436000E-01	0.108900E+00	0.198100E+00	0.193000E-01

18.800	0.480000E-02	0.323150E+01	0.218670E+01	0.410000E-01	0.105000E+00	0.197900E+00	0.183000E-01
19.000	0.500000E-02	0.322220E+01	0.219650E+01	0.386000E-01	0.101300E+00	0.197700E+00	0.172000E-01
19.200	0.510000E-02	0.321320E+01	0.220580E+01	0.363000E-01	0.976000E-01	0.197400E+00	0.161000E-01
19.400	0.530000E-02	0.320460E+01	0.221470E+01	0.341000E-01	0.942000E-01	0.197200E+00	0.151000E-01
19.600	0.540000E-02	0.319640E+01	0.222330E+01	0.321000E-01	0.908000E-01	0.196900E+00	0.142000E-01
19.800	0.550000E-02	0.318840E+01	0.223140E+01	0.301000E-01	0.876000E-01	0.196700E+00	0.132000E-01
20.000	0.560000E-02	0.318070E+01	0.223930E+01	0.283000E-01	0.844000E-01	0.196400E+00	0.123000E-01
20.200	0.570000E-02	0.317330E+01	0.224680E+01	0.266000E-01	0.814000E-01	0.196200E+00	0.114000E-01
20.400	0.580000E-02	0.316610E+01	0.225410E+01	0.250000E-01	0.785000E-01	0.195900E+00	0.106000E-01
20.600	0.590000E-02	0.315920E+01	0.226100E+01	0.235000E-01	0.757000E-01	0.195600E+00	0.980000E-02
20.800	0.600000E-02	0.315260E+01	0.226770E+01	0.220000E-01	0.730000E-01	0.195300E+00	0.910000E-02
21.200	0.600000E-02	0.313990E+01	0.228030E+01	0.195000E-01	0.680000E-01	0.194800E+00	0.770000E-02
21.400	0.610000E-02	0.313390E+01	0.228630E+01	0.183000E-01	0.656000E-01	0.194600E+00	0.700000E-02
21.600	0.610000E-02	0.312810E+01	0.229200E+01	0.172000E-01	0.632000E-01	0.194300E+00	0.640000E-02
22.000	0.610000E-02	0.311710E+01	0.230290E+01	0.152000E-01	0.589000E-01	0.193800E+00	0.530000E-02
22.200	0.610000E-02	0.311180E+01	0.230810E+01	0.143000E-01	0.568000E-01	0.193600E+00	0.480000E-02
22.400	0.610000E-02	0.310670E+01	0.231300E+01	0.134000E-01	0.548000E-01	0.193300E+00	0.430000E-02
23.600	0.610000E-02	0.307940E+01	0.233950E+01	0.940000E-02	0.444000E-01	0.192100E+00	0.190000E-02
24.000	0.600000E-02	0.307140E+01	0.234720E+01	0.840000E-02	0.415000E-01	0.191800E+00	0.130000E-02
24.200	0.600000E-02	0.306760E+01	0.235080E+01	0.790000E-02	0.401000E-01	0.191700E+00	0.110000E-02
24.400	0.590000E-02	0.306390E+01	0.235440E+01	0.750000E-02	0.387000E-01	0.191600E+00	0.800000E-03
24.800	0.590000E-02	0.305690E+01	0.236110E+01	0.670000E-02	0.362000E-01	0.191300E+00	0.400000E-03
25.000	0.580000E-02	0.305350E+01	0.236430E+01	0.640000E-02	0.350000E-01	0.191200E+00	0.200000E-03
25.400	0.570000E-02	0.304700E+01	0.237050E+01	0.570000E-02	0.328000E-01	0.191100E+00	0.200000E-03
25.600	0.570000E-02	0.304390E+01	0.237340E+01	0.550000E-02	0.317000E-01	0.191000E+00	0.300000E-03
25.800	0.560000E-02	0.304090E+01	0.237620E+01	0.520000E-02	0.307000E-01	0.190900E+00	0.500000E-03
26.000	0.560000E-02	0.303800E+01	0.237900E+01	0.500000E-02	0.298000E-01	0.190900E+00	0.600000E-03
26.200	0.550000E-02	0.303520E+01	0.238170E+01	0.470000E-02	0.288000E-01	0.190800E+00	0.700000E-03
26.400	0.550000E-02	0.303240E+01	0.238430E+01	0.450000E-02	0.279000E-01	0.190800E+00	0.900000E-03
26.600	0.550000E-02	0.302980E+01	0.238680E+01	0.430000E-02	0.271000E-01	0.190800E+00	0.100000E-02
26.800	0.540000E-02	0.302720E+01	0.238920E+01	0.410000E-02	0.262000E-01	0.190800E+00	0.110000E-02
27.000	0.540000E-02	0.302460E+01	0.239160E+01	0.400000E-02	0.254000E-01	0.190800E+00	0.110000E-02
27.200	0.530000E-02	0.302220E+01	0.239390E+01	0.380000E-02	0.247000E-01	0.190800E+00	0.120000E-02
27.400	0.530000E-02	0.301980E+01	0.239620E+01	0.370000E-02	0.239000E-01	0.190800E+00	0.130000E-02
27.600	0.520000E-02	0.301750E+01	0.239830E+01	0.350000E-02	0.232000E-01	0.190800E+00	0.140000E-02
28.000	0.510000E-02	0.301300E+01	0.240250E+01	0.330000E-02	0.219000E-01	0.190800E+00	0.150000E-02
28.200	0.510000E-02	0.301090E+01	0.240450E+01	0.320000E-02	0.213000E-01	0.190800E+00	0.150000E-02
28.400	0.500000E-02	0.300880E+01	0.240640E+01	0.310000E-02	0.206000E-01	0.190900E+00	0.160000E-02
28.600	0.500000E-02	0.300680E+01	0.240830E+01	0.300000E-02	0.201000E-01	0.190900E+00	0.160000E-02
28.800	0.490000E-02	0.300480E+01	0.241020E+01	0.290000E-02	0.195000E-01	0.190900E+00	0.160000E-02
29.000	0.490000E-02	0.300290E+01	0.241200E+01	0.280000E-02	0.189000E-01	0.191000E+00	0.170000E-02
29.200	0.480000E-02	0.300100E+01	0.241370E+01	0.270000E-02	0.184000E-01	0.191000E+00	0.170000E-02
29.400	0.480000E-02	0.299920E+01	0.241540E+01	0.260000E-02	0.179000E-01	0.191100E+00	0.170000E-02
29.600	0.480000E-02	0.299740E+01	0.241700E+01	0.260000E-02	0.174000E-01	0.191100E+00	0.170000E-02
29.800	0.470000E-02	0.299560E+01	0.241860E+01	0.250000E-02	0.170000E-01	0.191200E+00	0.170000E-02
30.000	0.470000E-02	0.299350E+01	0.241980E+01	0.240000E-02	0.165000E-01	0.191200E+00	0.170000E-02
30.200	0.460000E-02	0.299230E+01	0.242170E+01	0.240000E-02	0.161000E-01	0.191300E+00	0.180000E-02
30.400	0.460000E-02	0.299000E+01	0.242270E+01	0.230000E-02	0.156000E-01	0.191300E+00	0.180000E-02
31.000	0.450000E-02	0.298610E+01	0.242740E+01	0.220000E-02	0.144000E-01	0.191500E+00	0.180000E-02
31.200	0.440000E-02	0.298470E+01	0.242880E+01	0.210000E-02	0.141000E-01	0.191600E+00	0.180000E-02
31.400	0.440000E-02	0.298320E+01	0.242980E+01	0.210000E-02	0.137000E-01	0.191700E+00	0.180000E-02
31.600	0.430000E-02	0.298190E+01	0.243140E+01	0.210000E-02	0.134000E-01	0.191700E+00	0.180000E-02
31.800	0.430000E-02	0.298050E+01	0.243260E+01	0.200000E-02	0.130000E-01	0.191800E+00	0.180000E-02
32.200	0.420000E-02	0.297790E+01	0.243490E+01	0.200000E-02	0.124000E-01	0.191900E+00	0.170000E-02
32.400	0.420000E-02	0.297660E+01	0.243560E+01	0.190000E-02	0.121000E-01	0.192000E+00	0.170000E-02
32.600	0.410000E-02	0.297530E+01	0.243720E+01	0.190000E-02	0.118000E-01	0.192000E+00	0.170000E-02
32.800	0.410000E-02	0.297390E+01	0.243820E+01	0.190000E-02	0.115000E-01	0.192100E+00	0.170000E-02
33.000	0.410000E-02	0.297270E+01	0.243920E+01	0.180000E-02	0.112000E-01	0.192100E+00	0.170000E-02
34.200	0.390000E-02	0.296650E+01	0.244540E+01	0.170000E-02	0.970000E-02	0.192400E+00	0.160000E-02
34.400	0.380000E-02	0.296550E+01	0.244630E+01	0.170000E-02	0.950000E-02	0.192500E+00	0.160000E-02

Table 6: $(2)^3\Sigma^+-(2-7)^3\Sigma^+$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.000	0.207700E+00	0.717200E+00	0.409510E+01	-0.461000E-01	-0.661100E+00	-0.128520E+01
3.200	0.423600E+00	0.830900E+00	0.411950E+01	-0.360000E-02	-0.730200E+00	-0.136240E+01
3.400	0.582500E+00	0.962200E+00	0.419690E+01	0.275000E-01	-0.772900E+00	-0.145330E+01
3.800	0.657100E+00	0.135720E+01	0.452640E+01	0.307000E-01	-0.727300E+00	-0.160920E+01
4.000	0.507400E+00	0.162590E+01	0.475140E+01	0.102200E+00	-0.615900E+00	-0.162470E+01
4.200	0.201200E+00	0.188790E+01	0.495530E+01	0.184600E+00	-0.470300E+00	-0.157050E+01
4.400	-0.212100E+00	0.206790E+01	0.507370E+01	-0.380000E-02	-0.479300E+00	-0.145280E+01
4.600	-0.622400E+00	0.213650E+01	0.508350E+01	-0.222800E+00	-0.551100E+00	-0.130520E+01
4.800	-0.947500E+00	0.212950E+01	0.501580E+01	-0.414200E+00	-0.634200E+00	-0.116030E+01
5.200	-0.131010E+01	0.206460E+01	0.481260E+01	-0.648400E+00	-0.794900E+00	-0.917100E+00
5.400	-0.138880E+01	0.204640E+01	0.472160E+01	-0.707100E+00	-0.865500E+00	-0.815200E+00
5.600	-0.142600E+01	0.204340E+01	0.464730E+01	-0.739800E+00	-0.925900E+00	-0.723500E+00
5.800	-0.143500E+01	0.205440E+01	0.458980E+01	-0.754000E+00	-0.973800E+00	-0.641700E+00
6.000	-0.142510E+01	0.207710E+01	0.454740E+01	-0.755500E+00	-0.100800E+01	-0.569800E+00
6.200	-0.140260E+01	0.210960E+01	0.451760E+01	-0.748300E+00	-0.102740E+01	-0.507400E+00
6.400	-0.137170E+01	0.215000E+01	0.449770E+01	-0.735900E+00	-0.103050E+01	-0.453400E+00
6.600	-0.133540E+01	0.219660E+01	0.448500E+01	-0.721500E+00	-0.101450E+01	-0.406600E+00
6.800	-0.129610E+01	0.224850E+01	0.447680E+01	-0.708300E+00	-0.974600E+00	-0.363800E+00
7.000	-0.125530E+01	0.230450E+01	0.447050E+01	-0.700500E+00	-0.903000E+00	-0.322300E+00
7.200	-0.121430E+01	0.236400E+01	0.446350E+01	-0.704500E+00	-0.786700E+00	-0.275500E+00
7.400	-0.117400E+01	0.242640E+01	0.445290E+01	-0.730900E+00	-0.606400E+00	-0.201600E+00
7.600	-0.113520E+01	0.249110E+01	0.443570E+01	-0.799300E+00	-0.337400E+00	-0.959000E-01
7.800	-0.109840E+01	0.255740E+01	0.440820E+01	-0.946600E+00	0.298000E-01	0.298470E+01
8.000	-0.106380E+01	0.262440E+01	0.436610E+01	-0.123160E+01	0.420000E+00	0.298290E+01
8.200	-0.103180E+01	0.269080E+01	0.430340E+01	-0.167930E+01	0.651100E+00	0.284440E+01
8.400	-0.100230E+01	0.275470E+01	0.421210E+01	-0.218330E+01	0.673700E+00	0.265530E+01
8.600	-0.975500E+00	0.281290E+01	0.407960E+01	-0.264460E+01	0.628100E+00	0.247430E+01
8.800	-0.951200E+00	0.286080E+01	0.388610E+01	-0.307660E+01	0.593600E+00	0.231980E+01
9.000	-0.929300E+00	0.289160E+01	0.359810E+01	-0.352360E+01	0.578000E+00	0.219040E+01
9.200	-0.909600E+00	0.289550E+01	0.315840E+01	-0.401940E+01	0.573100E+00	0.208070E+01
9.400	-0.891900E+00	0.285940E+01	0.247910E+01	-0.456510E+01	0.570700E+00	0.198630E+01
9.600	-0.876100E+00	0.276890E+01	0.148350E+01	-0.508150E+01	0.565500E+00	0.190420E+01
9.800	-0.861700E+00	0.261330E+01	0.256200E+00	-0.540520E+01	0.554000E+00	0.183260E+01
10.000	-0.848600E+00	0.239390E+01	0.924100E+00	-0.546390E+01	0.534600E+00	0.177010E+01
10.200	-0.836500E+00	0.212870E+01	0.187050E+01	-0.517310E+01	0.470600E+00	0.166760E+01
10.600	-0.814000E+00	0.157680E+01	0.311420E+01	-0.497260E+01	0.426700E+00	0.162500E+01
10.800	-0.803200E+00	0.133490E+01	0.352660E+01	-0.476410E+01	0.375900E+00	0.158630E+01
11.000	-0.792200E+00	0.112770E+01	0.385780E+01	-0.454940E+01	0.319100E+00	0.155020E+01
11.200	-0.781100E+00	0.954800E+00	0.413440E+01	-0.432640E+01	0.257500E+00	0.151520E+01
11.400	-0.769500E+00	0.812400E+00	0.437430E+01	-0.409150E+01	0.191700E+00	0.148010E+01
11.600	-0.757300E+00	0.696000E+00	0.458900E+01	-0.384080E+01	0.122900E+00	0.144360E+01
11.800	-0.744500E+00	0.600800E+00	0.478600E+01	-0.356930E+01	0.522000E-01	0.140470E+01
12.000	-0.730900E+00	0.523100E+00	0.496960E+01	-0.327210E+01	-0.199000E-01	0.136250E+01
12.200	-0.716600E+00	0.459500E+00	0.514140E+01	-0.294380E+01	-0.919000E-01	0.131680E+01
12.400	-0.701500E+00	0.407200E+00	0.530020E+01	-0.258010E+01	-0.163000E+00	0.126730E+01
12.600	-0.685600E+00	0.364200E+00	0.544190E+01	-0.217920E+01	-0.232400E+00	0.121410E+01
12.800	-0.669100E+00	0.328500E+00	0.555960E+01	-0.174410E+01	-0.299500E+00	0.115760E+01
13.000	-0.651900E+00	0.298800E+00	0.564540E+01	-0.128440E+01	-0.363800E+00	0.109830E+01
13.200	-0.634200E+00	0.273900E+00	0.569300E+01	-0.816500E+00	-0.424500E+00	0.103670E+01
13.400	-0.616000E+00	0.252800E+00	0.570060E+01	-0.360000E+00	-0.481300E+00	0.973300E+00
13.600	-0.597300E+00	0.234900E+00	0.567190E+01	0.670000E-01	-0.534600E+00	0.908800E+00
13.800	-0.578400E+00	0.219600E+00	0.561420E+01	0.452200E+00	-0.584500E+00	0.843100E+00
14.000	-0.559300E+00	0.206300E+00	0.553660E+01	0.790100E+00	-0.632300E+00	0.774600E+00
14.200	-0.540100E+00	0.194600E+00	0.544710E+01	0.108140E+01	-0.685700E+00	0.697100E+00
14.400	-0.520800E+00	0.184300E+00	0.535190E+01	0.133000E+01	-0.812500E+00	0.505900E+00
14.600	-0.501700E+00	0.175100E+00	0.525520E+01	0.154150E+01	-0.698200E+00	0.627200E+00
14.800	-0.482600E+00	0.166800E+00	0.515980E+01	0.172170E+01	-0.602800E+00	0.697000E+00
15.000	-0.463700E+00	0.159300E+00	0.506700E+01	0.187600E+01	-0.540000E+00	0.726200E+00
15.200	-0.445200E+00	0.152400E+00	0.497770E+01	0.200910E+01	-0.486000E+00	0.744500E+00
15.400	-0.426900E+00	0.146100E+00	0.489210E+01	0.212470E+01	-0.436700E+00	0.755500E+00
15.600	-0.409000E+00	0.140200E+00	0.481020E+01	0.222600E+01	-0.391000E+00	0.761400E+00
15.800	-0.391600E+00	0.134700E+00	0.473200E+01	0.231570E+01	-0.348500E+00	0.762500E+00
16.000	-0.374600E+00	0.129600E+00	0.465710E+01	0.239570E+01	-0.308700E+00	0.759300E+00
16.200	-0.358100E+00	0.124800E+00	0.458550E+01	0.246770E+01	-0.271500E+00	0.752200E+00
16.400	-0.342100E+00	0.120300E+00	0.451670E+01	0.253300E+01	-0.236900E+00	0.741900E+00
16.600	-0.326700E+00	0.116000E+00	0.445060E+01	0.259280E+01	-0.204500E+00	0.728600E+00
16.800	-0.311700E+00	0.112000E+00	0.438710E+01	0.264790E+01	-0.174400E+00	0.713400E+00
17.000	-0.297400E+00	0.108100E+00	0.432580E+01	0.269890E+01	-0.146500E+00	0.696400E+00
17.200	-0.283600E+00	0.104500E+00	0.426670E+01	0.274650E+01	-0.120500E+00	0.678200E+00
17.400	-0.270300E+00	0.101000E+00	0.420960E+01	0.279110E+01	-0.965000E-01	0.659600E+00
17.600	-0.257600E+00	0.977000E-01	0.415440E+01	0.283310E+01	-0.743000E-01	0.640300E+00
17.800	-0.245500E+00	0.945000E-01	0.410090E+01	0.287280E+01	-0.539000E-01	0.620900E+00
18.000	-0.233900E+00	0.915000E-01	0.404920E+01	0.291040E+01	-0.353000E-01	0.601700E+00
18.200	-0.222800E+00	0.886000E-01	0.399910E+01	0.294610E+01	-0.181000E-01	0.582900E+00
18.400	-0.212200E+00	0.859000E-01	0.395060E+01	0.298010E+01	-0.260000E-02	0.564400E+00
18.600	-0.202200E+00	0.832000E-01	0.390360E+01	0.301250E+01	0.116000E-01	0.546500E+00

18.800	-0.192600E+00	0.807000E-01	0.385800E+01	0.304350E+01	0.243000E-01	0.529100E+00
19.000	-0.183500E+00	0.782000E-01	0.381390E+01	0.307320E+01	0.358000E-01	0.512500E+00
19.200	-0.174900E+00	0.759000E-01	0.377120E+01	0.310150E+01	0.460000E-01	0.496400E+00
19.400	-0.166700E+00	0.737000E-01	0.372980E+01	0.312860E+01	0.551000E-01	0.481000E+00
19.600	-0.158900E+00	0.715000E-01	0.368980E+01	0.315450E+01	0.631000E-01	0.466200E+00
19.800	-0.151500E+00	0.694000E-01	0.365110E+01	0.317940E+01	0.701000E-01	0.452000E+00
20.000	-0.144600E+00	0.674000E-01	0.361370E+01	0.320310E+01	0.762000E-01	0.438400E+00
20.200	-0.137900E+00	0.655000E-01	0.357760E+01	0.322580E+01	0.814000E-01	0.425400E+00
20.400	-0.131700E+00	0.636000E-01	0.354280E+01	0.324750E+01	0.857000E-01	0.413000E+00
20.600	-0.125700E+00	0.618000E-01	0.350920E+01	0.326810E+01	0.894000E-01	0.401000E+00
20.800	-0.120100E+00	0.601000E-01	0.347680E+01	0.328790E+01	0.923000E-01	0.389600E+00
21.200	-0.109700E+00	0.567000E-01	0.341560E+01	0.332460E+01	0.963000E-01	0.368100E+00
21.400	-0.104900E+00	0.552000E-01	0.338680E+01	0.334160E+01	0.975000E-01	0.358000E+00
21.600	-0.100400E+00	0.536000E-01	0.335910E+01	0.335780E+01	0.982000E-01	0.348300E+00
22.000	-0.920000E-01	0.507000E-01	0.330700E+01	0.338780E+01	0.984000E-01	0.330000E+00
22.200	-0.881000E-01	0.493000E-01	0.328250E+01	0.340160E+01	0.979000E-01	0.321400E+00
22.400	-0.844000E-01	0.480000E-01	0.325910E+01	0.341470E+01	0.970000E-01	0.313100E+00
23.600	-0.657000E-01	0.407000E-01	0.313870E+01	0.347930E+01	0.873000E-01	0.269300E+00
24.000	-0.606000E-01	0.386000E-01	0.310550E+01	0.349620E+01	0.826000E-01	0.256700E+00
24.200	-0.582000E-01	0.375000E-01	0.309010E+01	0.350390E+01	0.802000E-01	0.250600E+00
24.400	-0.559000E-01	0.365000E-01	0.307530E+01	0.351120E+01	0.778000E-01	0.244800E+00
24.800	-0.517000E-01	0.346000E-01	0.304800E+01	0.352420E+01	0.728000E-01	0.233700E+00
25.000	-0.498000E-01	0.337000E-01	0.303530E+01	0.353020E+01	0.703000E-01	0.228500E+00
25.400	-0.461000E-01	0.320000E-01	0.301170E+01	0.354090E+01	0.652000E-01	0.218400E+00
25.600	-0.444000E-01	0.311000E-01	0.300080E+01	0.354570E+01	0.626000E-01	0.213600E+00
25.800	-0.428000E-01	0.303000E-01	0.299040E+01	0.355020E+01	0.601000E-01	0.208900E+00
26.000	-0.413000E-01	0.295000E-01	0.298050E+01	0.355440E+01	0.576000E-01	0.204400E+00
26.200	-0.398000E-01	0.287000E-01	0.297110E+01	0.355830E+01	0.552000E-01	0.200000E+00
26.400	-0.384000E-01	0.280000E-01	0.296220E+01	0.356190E+01	0.528000E-01	0.195700E+00
26.600	-0.371000E-01	0.273000E-01	0.295370E+01	0.356530E+01	0.505000E-01	0.191500E+00
26.800	-0.359000E-01	0.266000E-01	0.294560E+01	0.356840E+01	0.482000E-01	0.187500E+00
27.000	-0.347000E-01	0.259000E-01	0.293800E+01	0.357130E+01	0.459000E-01	0.183600E+00
27.200	-0.335000E-01	0.252000E-01	0.293070E+01	0.357390E+01	0.438000E-01	0.179800E+00
27.400	-0.324000E-01	0.246000E-01	0.292370E+01	0.357640E+01	0.416000E-01	0.176100E+00
27.600	-0.314000E-01	0.239000E-01	0.291720E+01	0.357870E+01	0.396000E-01	0.172500E+00
28.000	-0.295000E-01	0.227000E-01	0.290500E+01	0.358270E+01	0.357000E-01	0.165600E+00
28.200	-0.286000E-01	0.221000E-01	0.289930E+01	0.358450E+01	0.338000E-01	0.162300E+00
28.400	-0.278000E-01	0.216000E-01	0.289390E+01	0.358620E+01	0.320000E-01	0.159000E+00
28.600	-0.270000E-01	0.210000E-01	0.288880E+01	0.358770E+01	0.303000E-01	0.155900E+00
28.800	-0.262000E-01	0.205000E-01	0.288400E+01	0.358900E+01	0.286000E-01	0.152800E+00
29.000	-0.255000E-01	0.200000E-01	0.287930E+01	0.359030E+01	0.270000E-01	0.149800E+00
29.200	-0.248000E-01	0.195000E-01	0.287490E+01	0.359140E+01	0.255000E-01	0.146900E+00
29.400	-0.241000E-01	0.190000E-01	0.287080E+01	0.359250E+01	0.240000E-01	0.144100E+00
29.600	-0.235000E-01	0.185000E-01	0.286680E+01	0.359340E+01	0.226000E-01	0.141300E+00
29.800	-0.229000E-01	0.181000E-01	0.286300E+01	0.359430E+01	0.213000E-01	0.138600E+00
30.000	-0.223000E-01	0.176000E-01	0.285940E+01	0.359500E+01	0.200000E-01	0.136000E+00
30.200	-0.218000E-01	0.172000E-01	0.285590E+01	0.359570E+01	0.188000E-01	0.133400E+00
30.400	-0.213000E-01	0.168000E-01	0.285270E+01	0.359630E+01	0.177000E-01	0.130900E+00
31.000	-0.198000E-01	0.156000E-01	0.284370E+01	0.359780E+01	0.146000E-01	0.123800E+00
31.200	-0.194000E-01	0.152000E-01	0.284100E+01	0.359820E+01	0.136000E-01	0.121500E+00
31.400	-0.190000E-01	0.149000E-01	0.283840E+01	0.359850E+01	0.128000E-01	0.119300E+00
31.600	-0.186000E-01	0.145000E-01	0.283600E+01	0.359880E+01	0.119000E-01	0.117200E+00
31.800	-0.182000E-01	0.142000E-01	0.283360E+01	0.359900E+01	0.111000E-01	0.115100E+00
32.200	-0.175000E-01	0.135000E-01	0.282920E+01	0.359940E+01	0.970000E-02	0.111000E+00
32.400	-0.171000E-01	0.132000E-01	0.282710E+01	0.359940E+01	0.900000E-02	0.109000E+00
32.600	-0.168000E-01	0.129000E-01	0.282520E+01	0.359960E+01	0.840000E-02	0.107100E+00
32.800	-0.165000E-01	0.126000E-01	0.282330E+01	0.359970E+01	0.790000E-02	0.105300E+00
33.000	-0.162000E-01	0.123000E-01	0.282160E+01	0.359980E+01	0.730000E-02	0.103400E+00
34.200	-0.145000E-01	0.107000E-01	0.281230E+01	0.359960E+01	0.470000E-02	0.933000E-01
34.400	-0.142000E-01	0.105000E-01	0.281100E+01	0.359950E+01	0.430000E-02	0.917000E-01

Table 7: (3)³Σ⁺ -(3-7)³Σ⁺ transitions

R	3-3	3-4	3-5	3-6	3-7
3.000	-0.985300E+00	0.350800E+01	-0.736200E+00	0.117150E+01	-0.142670E+01
3.200	-0.113830E+01	0.351550E+01	-0.747500E+00	0.130810E+01	-0.140610E+01
3.400	-0.125280E+01	0.346340E+01	-0.751400E+00	0.142640E+01	-0.141760E+01
3.800	-0.129240E+01	0.302880E+01	-0.899200E+00	0.160910E+01	-0.157550E+01
4.000	-0.114350E+01	0.257440E+01	-0.136640E+01	0.143710E+01	-0.173610E+01
4.200	-0.840600E+00	0.196160E+01	-0.203320E+01	0.612400E+00	-0.194330E+01
4.400	-0.426700E+00	0.127490E+01	-0.221940E+01	0.338800E+00	-0.216250E+01
4.600	-0.920000E-02	0.639600E+00	-0.231600E+01	-0.375900E+00	-0.235060E+01
4.800	0.328800E+00	0.133800E+00	-0.238950E+01	-0.521100E+00	-0.248370E+01
5.200	0.722200E+00	-0.488400E+00	-0.253780E+01	-0.929600E+00	-0.257530E+01
5.400	0.813200E+00	-0.657800E+00	-0.262640E+01	-0.114050E+01	-0.254770E+01
5.600	0.857900E+00	-0.765500E+00	-0.272680E+01	-0.132850E+01	-0.248640E+01
5.800	0.868900E+00	-0.828300E+00	-0.283800E+01	-0.147950E+01	-0.240470E+01
6.000	0.855200E+00	-0.858400E+00	-0.295930E+01	-0.158550E+01	-0.231400E+01
6.200	0.822800E+00	-0.864800E+00	-0.308970E+01	-0.164380E+01	-0.222290E+01
6.400	0.776200E+00	-0.854000E+00	-0.322820E+01	-0.165360E+01	-0.213620E+01
6.600	0.718800E+00	-0.831300E+00	-0.337420E+01	-0.161390E+01	-0.205570E+01
6.800	0.653200E+00	-0.800700E+00	-0.352590E+01	-0.152190E+01	-0.198250E+01
7.000	0.581500E+00	-0.765700E+00	-0.368160E+01	-0.137000E+01	-0.191520E+01
7.200	0.505400E+00	-0.729500E+00	-0.383750E+01	-0.114310E+01	-0.185080E+01
7.400	0.426700E+00	-0.694500E+00	-0.398560E+01	-0.812400E+00	-0.177940E+01
7.600	0.346900E+00	-0.663300E+00	-0.410640E+01	-0.326200E+00	-0.161170E+01
7.800	0.267500E+00	-0.638000E+00	-0.415040E+01	0.398400E+00	-0.103860E+01
8.000	0.190300E+00	-0.620800E+00	-0.399840E+01	0.142980E+01	-0.122830E+01
8.200	0.117100E+00	-0.614100E+00	-0.349670E+01	0.262690E+01	-0.113340E+01
8.400	0.506000E-01	-0.620200E+00	-0.277120E+01	0.358320E+01	-0.861600E+00
8.600	-0.640000E-02	-0.641900E+00	-0.214480E+01	0.415540E+01	-0.487600E+00
8.800	-0.500000E-01	-0.682500E+00	-0.170280E+01	0.447520E+01	-0.597000E-01
9.000	-0.752000E-01	-0.745700E+00	-0.139160E+01	0.464760E+01	0.396400E+00
9.200	-0.765000E-01	-0.834300E+00	-0.114920E+01	0.471730E+01	0.862400E+00
9.400	-0.485000E-01	-0.946200E+00	-0.923600E+00	0.469920E+01	0.131930E+01
9.600	0.122000E-01	-0.106080E+01	-0.676600E+00	0.459740E+01	0.174350E+01
9.800	0.102700E+00	-0.113370E+01	-0.411700E+00	0.441630E+01	0.210800E+01
10.000	0.212200E+00	-0.113540E+01	-0.179800E+00	0.417000E+01	0.238780E+01
10.200	0.323900E+00	-0.108160E+01	-0.150000E-01	0.388610E+01	0.257140E+01
10.400	0.422900E+00	-0.100180E+01	-0.893000E-01	0.359940E+01	0.266600E+01
10.600	0.502000E+00	-0.916600E+00	-0.152700E+00	0.333890E+01	0.269220E+01
10.800	0.561000E+00	-0.836600E+00	-0.192300E+00	0.312080E+01	0.267280E+01
11.000	0.603200E+00	-0.765400E+00	-0.219200E+00	0.294970E+01	0.262610E+01
11.200	0.632400E+00	-0.702600E+00	-0.240000E+00	0.282230E+01	0.256400E+01
11.400	0.651800E+00	-0.646400E+00	-0.258400E+00	0.273380E+01	0.249200E+01
11.600	0.663900E+00	-0.594300E+00	-0.276300E+00	0.267740E+01	0.241380E+01
11.800	0.670200E+00	-0.544200E+00	-0.294300E+00	0.264740E+01	0.233050E+01
12.000	0.672000E+00	-0.494300E+00	-0.312500E+00	0.263940E+01	0.224250E+01
12.200	0.670000E+00	-0.443200E+00	-0.330400E+00	0.264740E+01	0.215080E+01
12.400	0.664800E+00	-0.390100E+00	-0.347100E+00	0.266860E+01	0.205540E+01
12.600	0.656900E+00	-0.334400E+00	-0.361500E+00	0.269970E+01	0.195670E+01
12.800	0.646700E+00	-0.276500E+00	-0.372100E+00	0.273840E+01	0.185540E+01
13.000	0.634600E+00	-0.217300E+00	-0.377400E+00	0.278270E+01	0.175180E+01
13.200	0.620800E+00	-0.158600E+00	-0.376400E+00	0.283050E+01	0.164700E+01
13.400	0.605600E+00	-0.102300E+00	-0.368700E+00	0.288080E+01	0.154080E+01
13.600	0.589300E+00	-0.502000E-01	-0.354700E+00	0.293310E+01	0.143330E+01
13.800	0.572100E+00	0.350000E-02	-0.335600E+00	0.298740E+01	0.132220E+01
14.000	0.554100E+00	0.374000E-01	-0.312700E+00	0.304510E+01	0.119910E+01
14.200	0.535700E+00	0.726000E-01	-0.287500E+00	0.311720E+01	0.103260E+01
14.400	0.517000E+00	0.102600E+00	-0.261000E+00	0.327230E+01	0.393400E+00
14.600	0.498100E+00	0.127900E+00	-0.234100E+00	0.140320E+01	0.299850E+01
14.800	0.479100E+00	0.149100E+00	-0.207400E+00	0.113080E+01	0.312840E+01
15.000	0.460300E+00	0.166900E+00	-0.181500E+00	0.100970E+01	0.318620E+01
15.200	0.441600E+00	0.181600E+00	-0.156600E+00	0.921900E+00	0.322880E+01
15.400	0.423200E+00	0.193700E+00	-0.132900E+00	0.848500E+00	0.326150E+01
15.600	0.405200E+00	0.203600E+00	-0.110600E+00	0.784700E+00	0.328900E+01
15.800	0.387700E+00	0.211600E+00	-0.896000E-01	0.727700E+00	0.331000E+01
16.000	0.370600E+00	0.217800E+00	-0.701000E-01	0.676000E+00	0.332460E+01
16.200	0.354100E+00	0.222600E+00	-0.519000E-01	0.629000E+00	0.333280E+01
16.400	0.338200E+00	0.226100E+00	-0.352000E-01	0.586100E+00	0.333500E+01
16.600	0.322800E+00	0.228500E+00	-0.197000E-01	0.546600E+00	0.333120E+01
16.800	0.308000E+00	0.230000E+00	-0.550000E-02	0.510400E+00	0.332280E+01
17.000	0.293800E+00	0.230500E+00	0.750000E-02	0.477000E+00	0.330970E+01
17.200	0.280200E+00	0.230300E+00	0.193000E-01	0.446300E+00	0.329300E+01
17.400	0.267300E+00	0.229500E+00	0.301000E-01	0.418000E+00	0.327480E+01
17.600	0.254900E+00	0.228100E+00	0.398000E-01	0.391700E+00	0.325360E+01
17.800	0.243100E+00	0.226200E+00	0.486000E-01	0.367400E+00	0.323080E+01
18.000	0.231800E+00	0.223800E+00	0.565000E-01	0.344800E+00	0.320720E+01
18.200	0.221100E+00	0.221100E+00	0.636000E-01	0.324000E+00	0.318370E+01
18.400	0.210900E+00	0.218100E+00	0.699000E-01	0.304600E+00	0.315970E+01

1						
2						
3	18.600	0.201200E+00	0.214900E+00	0.756000E-01	0.286500E+00	0.313590E+01
4	18.800	0.192100E+00	0.211400E+00	0.805000E-01	0.269800E+00	0.311260E+01
5	19.000	0.183300E+00	0.207700E+00	0.849000E-01	0.254200E+00	0.309010E+01
6	19.200	0.175100E+00	0.203900E+00	0.887000E-01	0.239600E+00	0.306800E+01
7	19.400	0.167200E+00	0.200000E+00	0.920000E-01	0.226100E+00	0.304680E+01
8	19.600	0.159800E+00	0.196000E+00	0.948000E-01	0.213500E+00	0.302640E+01
9	19.800	0.152800E+00	0.192000E+00	0.972000E-01	0.201700E+00	0.300680E+01
10	20.000	0.146100E+00	0.187900E+00	0.992000E-01	0.190700E+00	0.298800E+01
11	20.200	0.139800E+00	0.183800E+00	0.100900E+00	0.180400E+00	0.297000E+01
12	20.400	0.133800E+00	0.179700E+00	0.102200E+00	0.170800E+00	0.295270E+01
13	20.600	0.128100E+00	0.175600E+00	0.103200E+00	0.161700E+00	0.293630E+01
14	20.800	0.122700E+00	0.171500E+00	0.103900E+00	0.153300E+00	0.292060E+01
15	21.200	0.112700E+00	0.163500E+00	0.104600E+00	0.138000E+00	0.289140E+01
16	21.400	0.108100E+00	0.159600E+00	0.104700E+00	0.131100E+00	0.287770E+01
17	21.600	0.103800E+00	0.155800E+00	0.104500E+00	0.124600E+00	0.286470E+01
18	22.000	0.957000E-01	0.148300E+00	0.103800E+00	0.112700E+00	0.284050E+01
19	22.200	0.920000E-01	0.144700E+00	0.103200E+00	0.107300E+00	0.282920E+01
20	22.400	0.884000E-01	0.141100E+00	0.102500E+00	0.102200E+00	0.281840E+01
21	23.600	0.706000E-01	0.121700E+00	0.966000E-01	0.772000E-01	0.276330E+01
22	24.000	0.657000E-01	0.115900E+00	0.942000E-01	0.706000E-01	0.274790E+01
23	24.200	0.635000E-01	0.113100E+00	0.929000E-01	0.675000E-01	0.274070E+01
24	24.400	0.613000E-01	0.110400E+00	0.916000E-01	0.647000E-01	0.273390E+01
25	24.800	0.573000E-01	0.105300E+00	0.890000E-01	0.594000E-01	0.272110E+01
26	25.000	0.554000E-01	0.102900E+00	0.877000E-01	0.569000E-01	0.271510E+01
27	25.400	0.519000E-01	0.982000E-01	0.850000E-01	0.525000E-01	0.270380E+01
28	25.600	0.503000E-01	0.959000E-01	0.837000E-01	0.504000E-01	0.269860E+01
29	25.800	0.487000E-01	0.938000E-01	0.824000E-01	0.484000E-01	0.269350E+01
30	26.000	0.472000E-01	0.916000E-01	0.811000E-01	0.465000E-01	0.268860E+01
31	26.200	0.458000E-01	0.896000E-01	0.798000E-01	0.447000E-01	0.268390E+01
32	26.400	0.444000E-01	0.876000E-01	0.785000E-01	0.430000E-01	0.267940E+01
33	26.600	0.431000E-01	0.857000E-01	0.772000E-01	0.413000E-01	0.267510E+01
34	26.800	0.418000E-01	0.838000E-01	0.759000E-01	0.398000E-01	0.267090E+01
35	27.000	0.406000E-01	0.820000E-01	0.747000E-01	0.383000E-01	0.266690E+01
36	27.200	0.395000E-01	0.803000E-01	0.734000E-01	0.368000E-01	0.266300E+01
37	27.400	0.384000E-01	0.786000E-01	0.722000E-01	0.355000E-01	0.265930E+01
38	27.600	0.373000E-01	0.769000E-01	0.710000E-01	0.342000E-01	0.265570E+01
39	27.800	0.363000E-01	0.753000E-01	0.698000E-01	0.000000E+00	0.329000E-01
40	28.000	0.353000E-01	0.737000E-01	0.686000E-01	0.318000E-01	0.264890E+01
41	28.200	0.344000E-01	0.722000E-01	0.674000E-01	0.306000E-01	0.264570E+01
42	28.400	0.335000E-01	0.707000E-01	0.663000E-01	0.296000E-01	0.264260E+01
43	28.600	0.326000E-01	0.693000E-01	0.652000E-01	0.285000E-01	0.263960E+01
44	28.800	0.317000E-01	0.679000E-01	0.641000E-01	0.275000E-01	0.263670E+01
45	29.000	0.309000E-01	0.665000E-01	0.630000E-01	0.266000E-01	0.263390E+01
46	29.200	0.302000E-01	0.652000E-01	0.619000E-01	0.257000E-01	0.263120E+01
47	29.400	0.294000E-01	0.639000E-01	0.609000E-01	0.248000E-01	0.262860E+01
48	29.600	0.287000E-01	0.627000E-01	0.599000E-01	0.240000E-01	0.262600E+01
49	29.800	0.280000E-01	0.615000E-01	0.589000E-01	0.232000E-01	0.262360E+01
50	30.000	0.273000E-01	0.603000E-01	0.579000E-01	0.224000E-01	0.262120E+01
51	30.200	0.267000E-01	0.591000E-01	0.569000E-01	0.217000E-01	0.261890E+01
52	30.400	0.261000E-01	0.580000E-01	0.560000E-01	0.210000E-01	0.261670E+01
53	31.000	0.243000E-01	0.548000E-01	0.532000E-01	0.190000E-01	0.261040E+01
54	31.200	0.238000E-01	0.538000E-01	0.523000E-01	0.184000E-01	0.260840E+01
55	31.400	0.233000E-01	0.528000E-01	0.515000E-01	0.178000E-01	0.260610E+01
56	31.600	0.228000E-01	0.519000E-01	0.506000E-01	0.173000E-01	0.260470E+01
57	31.800	0.223000E-01	0.509000E-01	0.498000E-01	0.168000E-01	0.260290E+01
58	32.200	0.214000E-01	0.491000E-01	0.482000E-01	0.157000E-01	0.259940E+01
59	32.400	0.209000E-01	0.482000E-01	0.474000E-01	0.153000E-01	0.259710E+01
60	32.600	0.205000E-01	0.474000E-01	0.466000E-01	0.148000E-01	0.259610E+01
	32.800	0.201000E-01	0.465000E-01	0.459000E-01	0.143000E-01	0.259390E+01
	33.000	0.197000E-01	0.457000E-01	0.451000E-01	0.139000E-01	0.259310E+01
	34.200	0.175000E-01	0.412000E-01	0.410000E-01	0.116000E-01	0.258480E+01
	34.400	0.172000E-01	0.405000E-01	0.404000E-01	0.113000E-01	0.258350E+01

Table 8: $(4)^3\Sigma^+-(4-7)^3\Sigma^+$ transitions

R	4-4	4-5	4-6	4-7
3.000	0.134410E+01	0.900520E+01	-0.118010E+01	0.349300E+00
3.200	0.116590E+01	0.903320E+01	-0.136640E+01	0.185800E+00
3.400	0.104530E+01	0.904060E+01	-0.150900E+01	0.493000E-01
3.800	0.104980E+01	0.913960E+01	-0.103250E+01	0.114700E+00
4.000	0.118950E+01	0.910380E+01	-0.139570E+01	0.126100E+00
4.200	0.140810E+01	0.710410E+01	-0.587620E+01	0.756000E-01
4.400	0.167930E+01	0.598200E+01	-0.702020E+01	-0.467000E-01
4.600	0.197150E+01	0.571640E+01	-0.723240E+01	-0.245500E+00
4.800	0.225810E+01	0.568780E+01	-0.723360E+01	-0.515500E+00
5.200	0.275460E+01	0.579650E+01	-0.704560E+01	-0.119660E+01
5.400	0.295370E+01	0.586160E+01	-0.691070E+01	-0.155040E+01
5.600	0.312020E+01	0.591680E+01	-0.677030E+01	-0.187170E+01
5.800	0.325660E+01	0.595470E+01	-0.664050E+01	-0.213900E+01
6.000	0.336650E+01	0.597060E+01	-0.653500E+01	-0.234300E+01
6.200	0.345300E+01	0.595920E+01	-0.646300E+01	-0.248470E+01
6.400	0.351950E+01	0.591500E+01	-0.642940E+01	-0.257090E+01
6.600	0.356870E+01	0.583230E+01	-0.643690E+01	-0.261080E+01
6.800	0.360310E+01	0.570140E+01	-0.648310E+01	-0.261290E+01
7.000	0.362460E+01	0.551120E+01	-0.656710E+01	-0.258630E+01
7.200	0.363490E+01	0.524420E+01	-0.668400E+01	-0.254100E+01
7.400	0.363470E+01	0.487200E+01	-0.682430E+01	-0.249800E+01
7.600	0.362430E+01	0.434590E+01	-0.696220E+01	-0.259730E+01
7.800	0.360330E+01	0.358070E+01	-0.704150E+01	-0.305310E+01
8.000	0.357050E+01	0.247150E+01	-0.696560E+01	-0.385650E+01
8.200	0.352320E+01	0.110470E+01	-0.660400E+01	-0.477330E+01
8.400	0.345700E+01	0.298000E-01	-0.592850E+01	-0.551210E+01
8.600	0.336420E+01	-0.692700E+00	-0.512430E+01	-0.602980E+01
8.800	0.323090E+01	-0.106850E+01	-0.430680E+01	-0.636060E+01
9.000	0.303220E+01	-0.133720E+01	-0.347510E+01	-0.652150E+01
9.200	0.272310E+01	-0.158460E+01	-0.259210E+01	-0.648660E+01
9.400	0.223410E+01	-0.181820E+01	-0.161200E+01	-0.617320E+01
9.600	0.151550E+01	-0.194770E+01	-0.517300E+00	-0.545960E+01
9.800	0.678000E+00	-0.183300E+01	0.595000E+00	-0.433980E+01
10.000	-0.331000E-01	-0.150110E+01	0.154090E+01	-0.306920E+01
10.200	-0.521400E+00	-0.112150E+01	0.223690E+01	-0.191240E+01
10.400	-0.838700E+00	-0.789000E+00	0.271240E+01	-0.947900E+00
10.600	-0.104780E+01	-0.517100E+00	0.302100E+01	-0.155600E+00
10.800	-0.118800E+01	-0.294100E+00	0.320920E+01	0.503100E+00
11.000	-0.128280E+01	-0.106500E+00	0.331110E+01	0.106320E+01
11.200	-0.134550E+01	0.562000E-01	0.335250E+01	0.155400E+01
11.400	-0.138470E+01	0.201500E+00	0.334830E+01	0.199980E+01
11.600	-0.140500E+01	0.335000E+00	0.331040E+01	0.241960E+01
11.800	-0.140870E+01	0.460700E+00	0.324600E+01	0.282990E+01
12.000	-0.139690E+01	0.581700E+00	0.315780E+01	0.324350E+01
12.200	-0.136870E+01	0.699800E+00	0.304900E+01	0.366990E+01
12.400	-0.132340E+01	0.815000E+00	0.291940E+01	0.411400E+01
12.600	-0.126020E+01	0.925300E+00	0.276920E+01	0.457480E+01
12.800	-0.117980E+01	0.102640E+01	0.259950E+01	0.504390E+01
13.000	-0.108600E+01	0.111230E+01	0.241350E+01	0.550760E+01
13.200	-0.985500E+00	0.117750E+01	0.221890E+01	0.594370E+01
13.400	-0.887500E+00	0.121890E+01	0.202530E+01	0.633560E+01
13.600	-0.800600E+00	0.123770E+01	0.184450E+01	0.667150E+01
13.800	-0.730700E+00	0.123790E+01	0.169110E+01	0.694720E+01
14.000	-0.679800E+00	0.122490E+01	0.158940E+01	0.716260E+01
14.200	-0.647100E+00	0.120410E+01	0.162070E+01	0.730980E+01
14.400	-0.629800E+00	0.117930E+01	0.274000E+01	0.709600E+01
14.600	-0.624600E+00	0.115320E+01	0.770090E+01	0.418000E-01
14.800	-0.628400E+00	0.112740E+01	0.776320E+01	0.432500E+00
15.000	-0.638300E+00	0.110260E+01	0.781990E+01	0.461300E+00
15.200	-0.651900E+00	0.107930E+01	0.786720E+01	0.428900E+00
15.400	-0.667400E+00	0.105730E+01	0.790390E+01	0.380100E+00
15.600	-0.683700E+00	0.103690E+01	0.793280E+01	0.326900E+00
15.800	-0.699600E+00	0.101760E+01	0.795440E+01	0.274300E+00
16.000	-0.714400E+00	0.999300E+00	0.796970E+01	0.224800E+00
16.200	-0.727400E+00	0.981800E+00	0.797970E+01	0.179400E+00
16.400	-0.738400E+00	0.964900E+00	0.798510E+01	0.138700E+00
16.600	-0.747000E+00	0.948400E+00	0.798640E+01	0.103200E+00
16.800	-0.753300E+00	0.932200E+00	0.798440E+01	0.724000E-01
17.000	-0.757000E+00	0.916100E+00	0.797920E+01	0.466000E-01
17.200	-0.758300E+00	0.900100E+00	0.797130E+01	0.253000E-01
17.400	-0.757200E+00	0.884100E+00	0.796160E+01	0.800000E-02
17.600	-0.753700E+00	0.867800E+00	0.794900E+01	-0.560000E-02
17.800	-0.748000E+00	0.851300E+00	0.793450E+01	-0.162000E-01
18.000	-0.740300E+00	0.834500E+00	0.791820E+01	-0.240000E-01
18.200	-0.730600E+00	0.817500E+00	0.790040E+01	-0.297000E-01
18.400	-0.719200E+00	0.800100E+00	0.788090E+01	-0.335000E-01

1
2
3 18.600 -0.706200E+00 0.782500E+00 0.786020E+01 -0.359000E-01
4 18.800 -0.691800E+00 0.764500E+00 0.783820E+01 -0.371000E-01
5 19.000 -0.676100E+00 0.746200E+00 0.781510E+01 -0.374000E-01
6 19.200 -0.659400E+00 0.727700E+00 0.779110E+01 -0.370000E-01
7 19.400 -0.641800E+00 0.709000E+00 0.776630E+01 -0.360000E-01
8 19.600 -0.623400E+00 0.690000E+00 0.774070E+01 -0.345000E-01
9 19.800 -0.604500E+00 0.670900E+00 0.771450E+01 -0.328000E-01
10 20.000 -0.585100E+00 0.651700E+00 0.768780E+01 -0.309000E-01
11 20.200 -0.565400E+00 0.632400E+00 0.766080E+01 -0.288000E-01
12 20.400 -0.545500E+00 0.613100E+00 0.763340E+01 -0.266000E-01
13 20.600 -0.525500E+00 0.593800E+00 0.760580E+01 -0.244000E-01
14 20.800 -0.505600E+00 0.574600E+00 0.757820E+01 -0.222000E-01
15 21.200 -0.466100E+00 0.536700E+00 0.752300E+01 -0.179000E-01
16 21.400 -0.446800E+00 0.518100E+00 0.749560E+01 -0.158000E-01
17 21.600 -0.427800E+00 0.499700E+00 0.746850E+01 -0.138000E-01
18 22.000 -0.391000E+00 0.463900E+00 0.741520E+01 -0.100000E-01
19 22.200 -0.373300E+00 0.446500E+00 0.738910E+01 -0.820000E-02
20 22.400 -0.356100E+00 0.429500E+00 0.736360E+01 -0.650000E-02
21 23.600 -0.264200E+00 0.337000E+00 0.722230E+01 -0.200000E-02
22 24.000 -0.238000E+00 0.309900E+00 0.718050E+01 0.420000E-02
23 24.200 -0.225800E+00 0.297000E+00 0.716060E+01 0.520000E-02
24 24.400 -0.214000E+00 0.284700E+00 0.714140E+01 0.610000E-02
25 24.800 -0.192100E+00 0.261400E+00 0.710510E+01 0.780000E-02
26 25.000 -0.181900E+00 0.250400E+00 0.708790E+01 0.860000E-02
27 25.400 -0.163000E+00 0.229800E+00 0.705570E+01 0.100000E-01
28 25.600 -0.154200E+00 0.220100E+00 0.704050E+01 0.106000E-01
29 25.800 -0.145800E+00 0.210800E+00 0.702590E+01 0.112000E-01
30 26.000 -0.137800E+00 0.201900E+00 0.701200E+01 0.117000E-01
31 26.200 -0.130300E+00 0.193400E+00 0.699870E+01 0.122000E-01
32 26.400 -0.123100E+00 0.185300E+00 0.698590E+01 0.126000E-01
33 26.600 -0.116300E+00 0.177500E+00 0.697370E+01 0.130000E-01
34 26.800 -0.109800E+00 0.170100E+00 0.696210E+01 0.134000E-01
35 27.000 -0.103700E+00 0.162900E+00 0.695090E+01 0.137000E-01
36 27.200 -0.979000E-01 0.156100E+00 0.694030E+01 0.141000E-01
37 27.400 -0.924000E-01 0.149600E+00 0.693010E+01 0.143000E-01
38 27.600 -0.872000E-01 0.143400E+00 0.692040E+01 0.146000E-01
39 28.000 -0.776000E-01 0.131800E+00 0.690230E+01 0.150000E-01
40 28.200 -0.732000E-01 0.126400E+00 0.689390E+01 0.152000E-01
41 28.400 -0.690000E-01 0.121200E+00 0.688580E+01 0.153000E-01
42 28.600 -0.651000E-01 0.116300E+00 0.687820E+01 0.154000E-01
43 28.800 -0.613000E-01 0.111600E+00 0.687080E+01 0.155000E-01
44 29.000 -0.578000E-01 0.107000E+00 0.686380E+01 0.156000E-01
45 29.200 -0.544000E-01 0.102700E+00 0.685720E+01 0.157000E-01
46 29.400 -0.513000E-01 0.986000E-01 0.685080E+01 0.157000E-01
47 29.600 -0.483000E-01 0.947000E-01 0.684480E+01 0.158000E-01
48 29.800 -0.454000E-01 0.909000E-01 0.683900E+01 0.158000E-01
49 30.000 -0.427000E-01 0.873000E-01 0.683340E+01 0.158000E-01
50 30.200 -0.402000E-01 0.838000E-01 0.682810E+01 0.158000E-01
51 30.400 -0.378000E-01 0.806000E-01 0.682310E+01 0.158000E-01
52 31.000 -0.313000E-01 0.716000E-01 0.680920E+01 0.156000E-01
53 31.200 -0.293000E-01 0.688000E-01 0.680500E+01 0.156000E-01
54 31.400 -0.275000E-01 0.662000E-01 0.680100E+01 0.155000E-01
55 31.600 -0.258000E-01 0.637000E-01 0.679720E+01 0.154000E-01
56 31.800 -0.241000E-01 0.613000E-01 0.679350E+01 0.153000E-01
57 32.200 -0.211000E-01 0.569000E-01 0.678660E+01 0.151000E-01
58 32.400 -0.197000E-01 0.548000E-01 0.678330E+01 0.150000E-01
59 32.600 -0.183000E-01 0.528000E-01 0.678020E+01 0.149000E-01
60 32.800 -0.171000E-01 0.509000E-01 0.677730E+01 0.148000E-01
33.000 -0.159000E-01 0.491000E-01 0.677440E+01 0.146000E-01
34.200 -0.980000E-02 0.399000E-01 0.675960E+01 0.138000E-01
34.400 -0.900000E-02 0.386000E-01 0.675740E+01 0.137000E-01

The following tables display the dipole moment functions between the three lowest Π states with the seven lowest Π states of **NaK**, for singlet (Tables 1 to 3) and triplet (Tables 4 to 6) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr =0.0529177 nm, and 1 a.u. =2.54158059 Debye. All states are identified with their number with increasing energy. When both indexes are equal, the function corresponds to the permanent dipole moment.

Table 1: (1)¹Π -(1-7)¹Π transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	-0.306400E+00	-0.756600E+00	0.365400E+00	0.176060E+01	-0.207220E+01	0.689800E+00	0.392400E+00
3.200	-0.357100E+00	-0.749100E+00	0.651200E+00	0.205170E+01	-0.177630E+01	0.715200E+00	0.464500E+00
3.400	-0.378300E+00	-0.785000E+00	0.827000E+00	0.224220E+01	-0.151500E+01	0.719600E+00	0.528300E+00
3.800	-0.344400E+00	-0.980900E+00	0.936000E+00	0.251280E+01	-0.103390E+01	0.714300E+00	0.655200E+00
4.000	-0.293000E+00	-0.112430E+01	0.906700E+00	0.260780E+01	-0.800600E+00	0.722200E+00	0.724800E+00
4.200	-0.224400E+00	-0.128420E+01	0.854900E+00	0.266540E+01	-0.580400E+00	0.740700E+00	0.801200E+00
4.400	-0.144400E+00	-0.145030E+01	0.806600E+00	0.268020E+01	-0.390200E+00	0.766100E+00	0.885100E+00
4.600	-0.583000E-01	-0.161370E+01	0.779800E+00	0.265720E+01	-0.245500E+00	0.791600E+00	0.971600E+00
4.800	0.300000E-01	-0.176680E+01	0.780600E+00	0.260980E+01	-0.154000E+00	0.811200E+00	0.105460E+01
5.200	0.206100E+00	-0.202110E+01	0.858500E+00	0.249900E+01	-0.104400E+00	0.835700E+00	0.117330E+01
5.400	0.293400E+00	-0.211610E+01	0.927800E+00	0.245520E+01	-0.121600E+00	0.850900E+00	0.119780E+01
5.600	0.380800E+00	-0.218800E+01	0.101420E+01	0.242490E+01	-0.151400E+00	0.874900E+00	0.119860E+01
5.800	0.469100E+00	-0.223640E+01	0.111780E+01	0.240750E+01	-0.185500E+00	0.909700E+00	0.117750E+01
6.000	0.558900E+00	-0.226110E+01	0.124000E+01	0.240030E+01	-0.218000E+00	0.954400E+00	0.113630E+01
6.200	0.650400E+00	-0.226210E+01	0.138380E+01	0.239770E+01	-0.245000E+00	0.100650E+01	0.107540E+01
6.400	0.743300E+00	-0.223920E+01	0.155290E+01	0.239170E+01	-0.264100E+00	0.106160E+01	0.995800E+00
6.600	0.836800E+00	-0.219240E+01	0.175130E+01	0.237180E+01	-0.273900E+00	0.111400E+01	0.899200E+00
6.800	0.929500E+00	-0.212170E+01	0.198190E+01	0.232410E+01	-0.273600E+00	0.115800E+01	0.788300E+00
7.000	0.101920E+01	-0.202780E+01	0.224440E+01	0.223290E+01	-0.262700E+00	0.118880E+01	0.666800E+00
7.200	0.110260E+01	-0.191140E+01	0.253130E+01	0.208310E+01	-0.241000E+00	0.120020E+01	0.537500E+00
7.400	0.117740E+01	-0.177560E+01	0.282620E+01	0.186840E+01	-0.209100E+00	0.119850E+01	0.407200E+00
7.600	0.124000E+01	-0.162280E+01	0.310440E+01	0.159760E+01	-0.167400E+00	0.118120E+01	0.276400E+00
7.800	0.128740E+01	-0.145780E+01	0.334250E+01	0.129320E+01	-0.117200E+00	0.115050E+01	0.147400E+00
8.000	0.131740E+01	-0.128540E+01	0.352900E+01	0.984600E+00	-0.602000E-01	0.110960E+01	0.214000E-01
8.200	0.132950E+01	-0.111110E+01	0.366410E+01	0.693600E+00	0.130000E-02	0.106280E+01	-0.998000E-01
8.400	0.132250E+01	-0.940000E+00	0.375560E+01	0.430800E+00	0.659000E-01	0.101060E+01	-0.215100E+00
8.600	0.129850E+01	-0.777100E+00	0.381200E+01	0.198900E+00	0.130400E+00	0.958300E+00	-0.323200E+00
8.800	0.125940E+01	-0.625900E+00	0.384170E+01	0.350000E-02	0.193400E+00	0.906300E+00	-0.421200E+00
9.000	0.120830E+01	-0.489200E+00	0.385110E+01	0.178900E+00	0.252900E+00	0.857000E+00	-0.508300E+00
9.200	0.114810E+01	-0.368200E+00	0.384580E+01	0.330100E+00	0.306900E+00	0.813100E+00	-0.583700E+00
9.400	0.108180E+01	-0.263100E+00	0.383010E+01	0.459000E+00	0.354900E+00	0.773700E+00	-0.647200E+00
9.600	0.101200E+01	-0.173600E+00	0.380770E+01	0.567300E+00	0.396100E+00	0.739800E+00	-0.698800E+00
9.800	0.941000E+00	-0.985000E-01	0.378130E+01	0.656200E+00	0.430300E+00	0.712100E+00	-0.740700E+00
10.000	0.870600E+00	-0.364000E-01	0.375320E+01	0.726700E+00	0.458100E+00	0.689400E+00	-0.773400E+00
10.200	0.802000E+00	0.142000E-01	0.372480E+01	0.780000E+00	0.479800E+00	0.670700E+00	-0.800100E+00
10.400	0.736100E+00	0.549000E-01	0.369750E+01	0.817200E+00	0.496800E+00	0.654600E+00	-0.821300E+00
10.600	0.673800E+00	0.873000E-01	0.367170E+01	0.839700E+00	0.509800E+00	0.640900E+00	-0.840500E+00
10.800	0.615400E+00	0.112600E+00	0.364790E+01	0.848700E+00	0.519800E+00	0.627500E+00	-0.856600E+00
11.000	0.561000E+00	0.132100E+00	0.362610E+01	0.845900E+00	0.527700E+00	0.613700E+00	-0.871300E+00
11.200	0.510700E+00	0.146800E+00	0.360620E+01	0.832800E+00	0.534000E+00	0.598600E+00	-0.885000E+00
11.400	0.464500E+00	0.157600E+00	0.358810E+01	0.811200E+00	0.539100E+00	0.581600E+00	-0.898100E+00
11.600	0.422200E+00	0.165400E+00	0.357140E+01	0.782700E+00	0.543000E+00	0.562300E+00	-0.910100E+00
11.800	0.383700E+00	0.170500E+00	0.355590E+01	0.748800E+00	0.545900E+00	0.540400E+00	-0.921400E+00
12.000	0.348700E+00	0.173700E+00	0.354130E+01	0.710900E+00	0.547400E+00	0.515500E+00	-0.930100E+00
12.200	0.317100E+00	0.175300E+00	0.352760E+01	0.670400E+00	0.547500E+00	0.488000E+00	-0.934100E+00
12.400	0.288500E+00	0.175600E+00	0.351460E+01	0.628600E+00	0.545700E+00	0.457900E+00	-0.930400E+00
12.600	0.262700E+00	0.174800E+00	0.350210E+01	0.586500E+00	0.542000E+00	0.426000E+00	-0.914600E+00
12.800	0.239600E+00	0.173300E+00	0.349000E+01	0.545000E+00	0.536100E+00	0.392800E+00	-0.880300E+00
13.000	0.218800E+00	0.171100E+00	0.347830E+01	0.504800E+00	0.528100E+00	0.359200E+00	-0.816200E+00
13.200	0.200100E+00	0.168400E+00	0.346700E+01	0.466500E+00	0.517800E+00	0.325800E+00	-0.700900E+00
13.400	0.183400E+00	0.165200E+00	0.345600E+01	0.430500E+00	0.505500E+00	0.293600E+00	-0.492300E+00
13.600	0.168400E+00	0.161800E+00	0.344530E+01	0.397100E+00	0.491400E+00	0.263200E+00	-0.152600E+00
13.800	0.154900E+00	0.158100E+00	0.343490E+01	0.366400E+00	0.475600E+00	0.235100E+00	-0.203400E+00
14.000	0.142900E+00	0.154100E+00	0.342480E+01	0.338400E+00	0.458500E+00	0.209900E+00	-0.425800E+00
14.200	0.132100E+00	0.150100E+00	0.341500E+01	0.313000E+00	0.440300E+00	0.188000E+00	-0.542100E+00
14.400	0.122400E+00	0.145900E+00	0.340540E+01	0.290100E+00	0.421300E+00	0.169400E+00	-0.604600E+00
14.600	0.113700E+00	0.141600E+00	0.339610E+01	0.269500E+00	0.401700E+00	0.154500E+00	-0.640100E+00
14.800	0.105900E+00	0.137400E+00	0.338710E+01	0.251000E+00	0.381800E+00	0.143300E+00	-0.660700E+00
15.000	0.989000E-01	0.133000E+00	0.337840E+01	0.234400E+00	0.361800E+00	0.135700E+00	-0.672700E+00
15.200	0.925000E-01	0.128700E+00	0.336990E+01	0.219600E+00	0.342500E+00	0.128600E+00	-0.679700E+00
15.400	0.867000E-01	0.124500E+00	0.336180E+01	0.206200E+00	0.323300E+00	0.127600E+00	-0.682700E+00
15.600	0.816000E-01	0.120200E+00	0.335380E+01	0.194200E+00	0.304600E+00	0.129200E+00	-0.683000E+00
15.800	0.769000E-01	0.116000E+00	0.334620E+01	0.183400E+00	0.286700E+00	0.132900E+00	-0.681900E+00
16.000	0.726000E-01	0.111900E+00	0.333880E+01	0.173600E+00	0.270000E+00	0.137800E+00	-0.679700E+00
16.200	0.687000E-01	0.107900E+00	0.333160E+01	0.164700E+00	0.254200E+00	0.143400E+00	-0.676800E+00
16.400	0.651000E-01	0.103900E+00	0.332470E+01	0.156600E+00	0.239600E+00	0.149200E+00	-0.673600E+00
16.600	0.619000E-01	0.100100E+00	0.331800E+01	0.149100E+00	0.225500E+00	0.155800E+00	-0.668500E+00

16.800	0.589000E-01	0.963000E-01	0.331150E+01	0.142300E+00	0.213300E+00	0.160400E+00	-0.665300E+00
17.000	0.561000E-01	0.927000E-01	0.330530E+01	0.136000E+00	0.202100E+00	0.164100E+00	-0.662400E+00
17.200	0.536000E-01	0.891000E-01	0.329920E+01	0.130200E+00	0.192000E+00	0.166900E+00	-0.659700E+00
17.400	0.512000E-01	0.857000E-01	0.329340E+01	0.124800E+00	0.182800E+00	0.168700E+00	-0.657200E+00
17.600	0.490000E-01	0.824000E-01	0.328780E+01	0.119700E+00	0.174500E+00	0.169600E+00	-0.654800E+00
17.800	0.470000E-01	0.792000E-01	0.328240E+01	0.115000E+00	0.167000E+00	0.169700E+00	-0.652400E+00
18.000	0.450000E-01	0.761000E-01	0.327720E+01	0.110500E+00	0.160200E+00	0.169100E+00	-0.649900E+00
18.200	0.433000E-01	0.732000E-01	0.327210E+01	0.106300E+00	0.154000E+00	0.167900E+00	-0.647200E+00
18.400	0.416000E-01	0.703000E-01	0.326720E+01	0.102300E+00	0.148500E+00	0.166200E+00	-0.644100E+00
18.600	0.400000E-01	0.676000E-01	0.326250E+01	0.985000E-01	0.143400E+00	0.164100E+00	-0.640500E+00
18.800	0.385000E-01	0.649000E-01	0.325790E+01	0.949000E-01	0.138800E+00	0.161800E+00	-0.636300E+00
19.000	0.371000E-01	0.624000E-01	0.325350E+01	0.915000E-01	0.134700E+00	0.158800E+00	-0.632300E+00
19.200	0.358000E-01	0.600000E-01	0.324930E+01	0.882000E-01	0.130800E+00	0.156200E+00	-0.626400E+00
19.400	0.346000E-01	0.576000E-01	0.324520E+01	0.850000E-01	0.127200E+00	0.153300E+00	-0.619500E+00
19.600	0.334000E-01	0.554000E-01	0.324120E+01	0.820000E-01	0.124000E+00	0.150300E+00	-0.611700E+00
19.800	0.322000E-01	0.533000E-01	0.323740E+01	0.792000E-01	0.121000E+00	0.147300E+00	-0.602500E+00
20.000	0.312000E-01	0.512000E-01	0.323370E+01	0.764000E-01	0.118200E+00	0.144300E+00	-0.592100E+00
20.200	0.301000E-01	0.492000E-01	0.323010E+01	0.738000E-01	0.115600E+00	0.141200E+00	-0.580300E+00
20.400	0.292000E-01	0.474000E-01	0.322670E+01	0.712000E-01	0.113200E+00	0.138100E+00	-0.566400E+00
20.600	0.282000E-01	0.456000E-01	0.322330E+01	0.688000E-01	0.110900E+00	0.135200E+00	-0.550000E+00
20.800	0.274000E-01	0.438000E-01	0.322010E+01	0.664000E-01	0.108800E+00	0.132200E+00	-0.530300E+00
21.000	0.265000E-01	0.422000E-01	0.321690E+01	0.642000E-01	0.106800E+00	0.129300E+00	-0.505800E+00
21.200	0.257000E-01	0.406000E-01	0.321390E+01	0.620000E-01	0.104900E+00	0.126500E+00	-0.474600E+00
21.400	0.249000E-01	0.391000E-01	0.321090E+01	0.599000E-01	0.103100E+00	0.123700E+00	-0.433900E+00
21.600	0.242000E-01	0.377000E-01	0.320810E+01	0.579000E-01	0.101400E+00	0.121000E+00	-0.381700E+00
21.800	0.235000E-01	0.363000E-01	0.320540E+01	0.560000E-01	0.998000E-01	0.118300E+00	-0.318800E+00
22.000	0.228000E-01	0.350000E-01	0.320270E+01	0.541000E-01	0.983000E-01	0.115700E+00	-0.251600E+00
22.200	0.221000E-01	0.337000E-01	0.320010E+01	0.523000E-01	0.968000E-01	0.113200E+00	-0.189300E+00
22.400	0.215000E-01	0.325000E-01	0.319760E+01	0.506000E-01	0.955000E-01	0.110700E+00	-0.138000E+00
22.600	0.209000E-01	0.314000E-01	0.319520E+01	0.490000E-01	0.941000E-01	0.108300E+00	-0.098600E-01
22.800	0.203000E-01	0.303000E-01	0.319280E+01	0.474000E-01	0.929000E-01	0.105900E+00	-0.069400E-01
23.000	0.197000E-01	0.292000E-01	0.319050E+01	0.459000E-01	0.917000E-01	0.103600E+00	-0.047800E-01
23.200	0.192000E-01	0.282000E-01	0.318830E+01	0.444000E-01	0.906000E-01	0.101300E+00	-0.031800E-01
23.400	0.187000E-01	0.272000E-01	0.318620E+01	0.430000E-01	0.895000E-01	0.991000E-01	-0.019900E-01
23.600	0.181000E-01	0.263000E-01	0.318410E+01	0.416000E-01	0.884000E-01	0.969000E-01	-0.010900E-01
23.800	0.177000E-01	0.254000E-01	0.318210E+01	0.403000E-01	0.874000E-01	0.948000E-01	-0.014100E-01
24.000	0.172000E-01	0.245000E-01	0.318010E+01	0.391000E-01	0.865000E-01	0.927000E-01	0.010000E-02
24.200	0.167000E-01	0.237000E-01	0.317820E+01	0.379000E-01	0.856000E-01	0.907000E-01	0.049000E-02
24.400	0.163000E-01	0.229000E-01	0.317630E+01	0.367000E-01	0.847000E-01	0.887000E-01	0.079000E-02
24.800	0.154000E-01	0.214000E-01	0.317280E+01	0.345000E-01	0.830000E-01	0.847000E-01	0.119000E-01
25.000	0.150000E-01	0.207000E-01	0.317110E+01	0.335000E-01	0.822000E-01	0.828000E-01	0.131000E-01
25.400	0.143000E-01	0.194000E-01	0.316780E+01	0.316000E-01	0.807000E-01	0.791000E-01	0.147000E-01
25.600	0.139000E-01	0.188000E-01	0.316620E+01	0.307000E-01	0.800000E-01	0.773000E-01	0.151000E-01
25.800	0.136000E-01	0.182000E-01	0.316470E+01	0.298000E-01	0.793000E-01	0.755000E-01	0.154000E-01
26.000	0.132000E-01	0.177000E-01	0.316320E+01	0.289000E-01	0.786000E-01	0.737000E-01	0.155000E-01
26.400	0.126000E-01	0.166000E-01	0.316040E+01	0.273000E-01	0.773000E-01	0.703000E-01	0.155000E-01
26.600	0.123000E-01	0.161000E-01	0.315910E+01	0.266000E-01	0.767000E-01	0.686000E-01	0.154000E-01
26.800	0.120000E-01	0.156000E-01	0.315770E+01	0.259000E-01	0.761000E-01	0.670000E-01	0.152000E-01
27.000	0.117000E-01	0.151000E-01	0.315640E+01	0.251000E-01	0.755000E-01	0.653000E-01	0.149000E-01
27.200	0.114000E-01	0.147000E-01	0.315520E+01	0.245000E-01	0.750000E-01	0.637000E-01	0.146000E-01
27.400	0.111000E-01	0.143000E-01	0.315400E+01	0.238000E-01	0.744000E-01	0.621000E-01	0.144000E-01
27.600	0.109000E-01	0.138000E-01	0.315280E+01	0.232000E-01	0.739000E-01	0.606000E-01	0.141000E-01
28.000	0.104000E-01	0.130000E-01	0.315050E+01	0.220000E-01	0.729000E-01	0.576000E-01	0.134000E-01
28.200	0.102000E-01	0.127000E-01	0.314940E+01	0.214000E-01	0.724000E-01	0.561000E-01	0.131000E-01
28.600	0.970000E-02	0.120000E-01	0.314730E+01	0.204000E-01	0.715000E-01	0.532000E-01	0.125000E-01
28.800	0.950000E-02	0.116000E-01	0.314630E+01	0.199000E-01	0.711000E-01	0.518000E-01	0.122000E-01
29.400	0.890000E-02	0.107000E-01	0.314340E+01	0.184000E-01	0.698000E-01	0.478000E-01	0.112000E-01
30.200	0.820000E-02	0.960000E-02	0.313980E+01	0.167000E-01	0.684000E-01	0.428000E-01	0.100000E-01
30.400	0.800000E-02	0.930000E-02	0.313900E+01	0.163000E-01	0.680000E-01	0.416000E-01	0.970000E-02
31.400	0.720000E-02	0.820000E-02	0.313500E+01	0.145000E-01	0.665000E-01	0.360000E-01	0.840000E-02
31.600	0.710000E-02	0.800000E-02	0.313440E+01	0.142000E-01	0.662000E-01	0.350000E-01	0.820000E-02
31.800	0.700000E-02	0.780000E-02	0.313370E+01	0.139000E-01	0.659000E-01	0.340000E-01	0.800000E-02

Table 2: (2)¹Π -(2-7)¹Π transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.000	-0.104510E+01	-0.114450E+01	0.587800E+00	0.190700E+00	-0.188800E+01	-0.626400E+00
3.200	-0.112450E+01	-0.128690E+01	0.531900E+00	0.152600E+00	-0.192640E+01	-0.680900E+00
3.400	-0.114210E+01	-0.146490E+01	0.474600E+00	-0.274000E-01	-0.195350E+01	0.746800E+00
3.800	-0.103370E+01	-0.185110E+01	0.328200E+00	-0.372900E+00	-0.195080E+01	-0.894500E+00
4.000	-0.915100E+00	-0.204660E+01	0.222600E+00	-0.632700E+00	-0.191400E+01	-0.972000E+00
4.200	-0.757200E+00	-0.223180E+01	0.101700E+00	-0.930500E+00	-0.184210E+01	-0.104850E+01
4.400	-0.565900E+00	-0.239590E+01	-0.200000E-01	-0.125790E+01	-0.172580E+01	-0.112050E+01
4.600	-0.350600E+00	-0.253030E+01	-0.132200E+00	-0.159490E+01	-0.156090E+01	-0.117840E+01
4.800	-0.121900E+00	-0.263080E+01	-0.232400E+00	-0.191520E+01	-0.136080E+01	-0.121700E+01
5.200	-0.339500E+00	-0.273460E+01	-0.409900E+00	-0.242590E+01	-0.951700E+00	-0.123340E+01
5.400	-0.560900E+00	-0.274680E+01	-0.488200E+00	-0.260420E+01	-0.785100E+00	-0.122430E+01
5.600	-0.773700E+00	-0.273960E+01	-0.552200E+00	-0.273780E+01	-0.658500E+00	-0.121660E+01
5.800	-0.978500E+00	-0.271720E+01	-0.592800E+00	-0.283670E+01	-0.573900E+00	-0.121670E+01
6.000	-0.117670E+01	-0.268280E+01	-0.600700E+00	-0.291130E+01	-0.529300E+00	-0.122750E+01
6.200	-0.136940E+01	-0.263770E+01	-0.568400E+00	-0.297070E+01	-0.521600E+00	-0.124760E+01
6.400	-0.155720E+01	-0.258140E+01	-0.490700E+00	-0.302180E+01	-0.546700E+00	-0.127500E+01
6.600	-0.173980E+01	-0.251150E+01	-0.364200E+00	-0.306970E+01	-0.599400E+00	-0.130630E+01
6.800	-0.191610E+01	-0.242280E+01	-0.188500E+00	-0.311750E+01	-0.673600E+00	-0.133790E+01
7.000	-0.208380E+01	-0.230730E+01	0.330000E-01	-0.316680E+01	-0.761900E+00	-0.136760E+01
7.200	-0.223830E+01	-0.215650E+01	0.290400E+00	-0.321860E+01	-0.852500E+00	-0.139110E+01
7.400	-0.237900E+01	-0.195850E+01	0.563800E+00	-0.327260E+01	-0.949700E+00	-0.141250E+01
7.600	-0.250010E+01	-0.171380E+01	0.827700E+00	-0.332850E+01	-0.104310E+01	-0.142820E+01
7.800	-0.259800E+01	-0.143170E+01	0.105790E+01	-0.338470E+01	-0.112970E+01	-0.143690E+01
8.000	-0.266930E+01	-0.112980E+01	0.124210E+01	-0.344020E+01	-0.120690E+01	-0.143740E+01
8.200	-0.271270E+01	-0.824800E+00	0.137980E+01	-0.349350E+01	-0.127530E+01	-0.142760E+01
8.400	-0.272580E+01	-0.530800E+00	0.148070E+01	-0.354330E+01	-0.133010E+01	-0.140690E+01
8.600	-0.271050E+01	-0.254900E+00	0.155330E+01	-0.358800E+01	-0.137640E+01	-0.137510E+01
9.000	-0.259970E+01	0.221600E+00	0.164790E+01	-0.365650E+01	-0.143070E+01	-0.127580E+01
9.200	-0.251070E+01	0.418600E+00	0.167930E+01	-0.367810E+01	-0.144470E+01	-0.121210E+01
9.400	-0.240380E+01	0.586700E+00	0.170350E+01	-0.368970E+01	-0.145010E+01	-0.114070E+01
9.600	-0.228260E+01	0.726100E+00	0.172100E+01	-0.369110E+01	-0.144950E+01	-0.106490E+01
9.800	-0.215090E+01	0.837600E+00	0.173180E+01	-0.368280E+01	-0.144640E+01	-0.987500E+00
10.000	-0.201200E+01	0.922300E+00	0.173490E+01	-0.366490E+01	-0.144090E+01	-0.909700E+00
10.200	-0.186920E+01	0.982200E+00	0.172940E+01	-0.363820E+01	-0.143470E+01	-0.832800E+00
10.400	-0.172550E+01	0.101930E+01	0.171420E+01	-0.360360E+01	-0.142860E+01	-0.757400E+00
10.600	-0.158370E+01	0.103640E+01	0.168870E+01	-0.356250E+01	-0.142400E+01	-0.683800E+00
10.800	-0.144580E+01	0.103620E+01	0.165230E+01	-0.351550E+01	-0.142010E+01	-0.612100E+00
11.000	-0.131380E+01	0.102150E+01	0.160470E+01	-0.346370E+01	-0.141710E+01	-0.541800E+00
11.200	-0.118920E+01	0.995400E+00	0.154640E+01	-0.340800E+01	-0.141480E+01	-0.472900E+00
11.400	-0.107270E+01	0.960500E+00	0.147810E+01	-0.334900E+01	-0.141340E+01	-0.405100E+00
11.600	-0.965200E+00	0.919100E+00	0.140070E+01	-0.328700E+01	-0.141230E+01	-0.337600E+00
11.800	-0.866600E+00	0.873600E+00	0.131590E+01	-0.322240E+01	-0.141170E+01	-0.269200E+00
12.000	-0.777000E+00	0.825700E+00	0.122530E+01	-0.315500E+01	-0.141100E+01	-0.199800E+00
12.200	-0.696000E+00	0.776800E+00	0.113070E+01	-0.308460E+01	-0.141020E+01	-0.128100E+00
12.400	-0.623300E+00	0.728100E+00	0.103420E+01	-0.301090E+01	-0.140930E+01	-0.519000E-01
12.600	-0.558200E+00	0.680400E+00	0.937600E+00	-0.293350E+01	-0.140820E+01	0.332000E-01
12.800	-0.500200E+00	0.634400E+00	0.842700E+00	-0.285230E+01	-0.140710E+01	0.136200E+00
13.000	-0.448700E+00	0.590500E+00	0.751100E+00	-0.276690E+01	-0.140600E+01	0.275500E+00
13.200	-0.402900E+00	0.549000E+00	0.664000E+00	-0.267710E+01	-0.140460E+01	0.490400E+00
13.400	-0.362400E+00	0.510000E+00	0.582300E+00	-0.258280E+01	-0.140260E+01	0.853600E+00
13.600	-0.326500E+00	0.473600E+00	0.506700E+00	-0.248390E+01	-0.139960E+01	0.140730E+01
13.800	-0.294800E+00	0.439600E+00	0.437400E+00	-0.238050E+01	-0.139460E+01	0.193800E+01
14.000	-0.266600E+00	0.408200E+00	0.374500E+00	-0.227240E+01	-0.138650E+01	0.226170E+01
14.200	-0.241700E+00	0.379200E+00	0.317700E+00	-0.216010E+01	-0.137390E+01	0.245570E+01
14.400	-0.219600E+00	0.352400E+00	0.266900E+00	-0.204380E+01	-0.135530E+01	0.259380E+01
14.600	-0.200000E+00	0.327800E+00	0.221700E+00	-0.192400E+01	-0.132880E+01	0.270660E+01
14.800	-0.182500E+00	0.305000E+00	0.181600E+00	-0.180160E+01	-0.129280E+01	0.280610E+01
15.000	-0.167000E+00	0.284500E+00	0.146200E+00	-0.167750E+01	-0.124590E+01	0.289720E+01
15.200	-0.153100E+00	0.265400E+00	0.114900E+00	-0.155290E+01	-0.118550E+01	0.298140E+01
15.400	-0.140700E+00	0.248000E+00	0.876000E-01	-0.142960E+01	-0.111510E+01	0.305960E+01
15.600	-0.129500E+00	0.232000E+00	0.637000E-01	-0.130880E+01	-0.103390E+01	0.313100E+01
15.800	-0.119500E+00	0.217400E+00	0.429000E-01	-0.119190E+01	-0.943600E+00	0.319460E+01
16.000	-0.110500E+00	0.204000E+00	0.248000E-01	-0.108020E+01	-0.847000E+00	0.324960E+01
16.200	-0.102400E+00	0.191800E+00	0.920000E-02	-0.974600E+00	-0.747300E+00	0.329540E+01
16.400	-0.950000E-01	0.180600E+00	0.430000E-02	-0.875900E+00	-0.647600E+00	0.333200E+01
16.600	-0.884000E-01	0.170300E+00	0.158000E-01	-0.784800E+00	-0.551700E+00	0.336110E+01
16.800	-0.823000E-01	0.160900E+00	0.258000E-01	-0.700600E+00	-0.460000E+00	0.338070E+01
17.000	-0.767000E-01	0.152300E+00	0.342000E-01	-0.623700E+00	-0.375100E+00	0.339290E+01
17.200	-0.717000E-01	0.144400E+00	0.413000E-01	-0.553900E+00	-0.297800E+00	0.339890E+01
17.400	-0.670000E-01	0.137100E+00	0.472000E-01	-0.490700E+00	-0.228600E+00	0.339970E+01
17.600	-0.628000E-01	0.130400E+00	0.522000E-01	-0.433800E+00	-0.167200E+00	0.339630E+01
17.800	-0.588000E-01	0.124300E+00	0.562000E-01	-0.382700E+00	-0.113400E+00	0.338930E+01
18.000	-0.552000E-01	0.118700E+00	0.594000E-01	-0.337000E+00	-0.667000E-01	0.337970E+01
18.200	-0.519000E-01	0.113400E+00	0.620000E-01	-0.296000E+00	-0.263000E-01	0.336790E+01
18.400	-0.488000E-01	0.108600E+00	0.640000E-01	-0.259500E+00	0.820000E-02	0.335440E+01
18.600	-0.459000E-01	0.104200E+00	0.654000E-01	-0.227000E+00	0.377000E-01	0.333940E+01

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2
3 18.800 -0.432000E-01 0.100100E+00 0.664000E-01 -0.198000E+00 0.627000E-01 0.332340E+01
4 19.000 -0.407000E-01 0.962000E-01 0.670000E-01 -0.172100E+00 0.840000E-01 0.330460E+01
5 19.200 -0.384000E-01 0.927000E-01 0.672000E-01 -0.149300E+00 0.101500E+00 0.328650E+01
6 19.400 -0.363000E-01 0.894000E-01 0.671000E-01 -0.129100E+00 0.116000E+00 0.326710E+01
7 19.600 -0.342000E-01 0.863000E-01 0.668000E-01 -0.111200E+00 0.127900E+00 0.324600E+01
8 19.800 -0.323000E-01 0.834000E-01 0.663000E-01 -0.954000E-01 0.137400E+00 0.322250E+01
9 20.000 -0.305000E-01 0.807000E-01 0.656000E-01 -0.815000E-01 0.145000E+00 0.319640E+01
10 20.200 -0.289000E-01 0.781000E-01 0.647000E-01 -0.692000E-01 0.151000E+00 0.316590E+01
11 20.400 -0.273000E-01 0.757000E-01 0.637000E-01 -0.583000E-01 0.155500E+00 0.312930E+01
12 20.600 -0.258000E-01 0.735000E-01 0.626000E-01 -0.488000E-01 0.158800E+00 0.308370E+01
13 20.800 -0.244000E-01 0.713000E-01 0.614000E-01 -0.405000E-01 0.161000E+00 0.302430E+01
14 21.000 -0.231000E-01 0.693000E-01 0.602000E-01 -0.332000E-01 0.162300E+00 0.294410E+01
15 21.200 -0.219000E-01 0.674000E-01 0.589000E-01 -0.269000E-01 0.162800E+00 0.283170E+01
16 21.400 -0.207000E-01 0.655000E-01 0.575000E-01 -0.213000E-01 0.162600E+00 0.267140E+01
17 21.600 -0.196000E-01 0.638000E-01 0.561000E-01 -0.165000E-01 0.161800E+00 0.244700E+01
18 21.800 -0.186000E-01 0.621000E-01 0.547000E-01 -0.124000E-01 0.160600E+00 0.215520E+01
19 22.000 -0.176000E-01 0.606000E-01 0.533000E-01 -0.880000E-02 0.158900E+00 0.182250E+01
20 22.200 -0.167000E-01 0.590000E-01 0.519000E-01 -0.580000E-02 0.156900E+00 0.149680E+01
21 22.400 -0.158000E-01 0.576000E-01 0.506000E-01 -0.310000E-02 0.154600E+00 0.121540E+01
22 22.600 -0.150000E-01 0.562000E-01 0.492000E-01 -0.800000E-03 0.152300E+00 0.989400E+00
23 22.800 -0.142000E-01 0.549000E-01 0.478000E-01 0.100000E-02 0.149300E+00 0.813500E+00
24 23.000 -0.135000E-01 0.536000E-01 0.465000E-01 0.250000E-02 0.146400E+00 0.677200E+00
25 23.200 -0.128000E-01 0.523000E-01 0.451000E-01 0.380000E-02 0.143400E+00 0.570900E+00
26 23.400 -0.121000E-01 0.511000E-01 0.438000E-01 0.480000E-02 0.140300E+00 0.487000E+00
27 23.600 -0.114000E-01 0.500000E-01 0.425000E-01 0.570000E-02 0.137200E+00 0.419900E+00
28 23.800 -0.108000E-01 0.488000E-01 0.413000E-01 0.630000E-02 0.134000E+00 0.365500E+00
29 24.000 -0.103000E-01 0.478000E-01 0.401000E-01 0.690000E-02 0.130800E+00 0.320900E+00
30 24.200 -0.970000E-02 0.467000E-01 0.389000E-01 0.730000E-02 0.127600E+00 0.283900E+00
31 24.400 -0.920000E-02 0.457000E-01 0.378000E-01 0.760000E-02 0.124400E+00 0.252900E+00
32 24.800 -0.820000E-02 0.438000E-01 0.355000E-01 0.790000E-02 0.118100E+00 0.204400E+00
33 25.000 -0.780000E-02 0.428000E-01 0.345000E-01 0.790000E-02 0.115000E+00 0.185100E+00
34 25.400 -0.700000E-02 0.411000E-01 0.325000E-01 0.780000E-02 0.109000E+00 0.154000E+00
35 25.600 -0.660000E-02 0.402000E-01 0.315000E-01 0.770000E-02 0.106000E+00 0.141300E+00
36 25.800 -0.620000E-02 0.394000E-01 0.306000E-01 0.750000E-02 0.103000E+00 0.130200E+00
37 26.000 -0.590000E-02 0.386000E-01 0.297000E-01 0.730000E-02 0.100200E+00 0.120400E+00
38 26.400 -0.520000E-02 0.371000E-01 0.280000E-01 0.690000E-02 0.946000E-01 0.103900E+00
39 26.600 -0.490000E-02 0.363000E-01 0.272000E-01 0.660000E-02 0.919000E-01 0.970000E-01
40 26.800 -0.460000E-02 0.356000E-01 0.264000E-01 0.640000E-02 0.893000E-01 0.907000E-01
41 27.000 -0.430000E-02 0.349000E-01 0.256000E-01 0.610000E-02 0.867000E-01 0.850000E-01
42 27.200 -0.410000E-02 0.342000E-01 0.249000E-01 0.580000E-02 0.842000E-01 0.799000E-01
43 27.400 -0.380000E-02 0.335000E-01 0.242000E-01 0.560000E-02 0.819000E-01 0.753000E-01
44 27.600 -0.360000E-02 0.329000E-01 0.235000E-01 0.530000E-02 0.795000E-01 0.710000E-01
45 28.000 -0.310000E-02 0.316000E-01 0.222000E-01 0.480000E-02 0.750000E-01 0.636000E-01
46 28.200 -0.290000E-02 0.310000E-01 0.215000E-01 0.450000E-02 0.729000E-01 0.604000E-01
47 28.600 -0.250000E-02 0.299000E-01 0.204000E-01 0.410000E-02 0.688000E-01 0.546000E-01
48 28.800 -0.230000E-02 0.293000E-01 0.198000E-01 0.380000E-02 0.669000E-01 0.520000E-01
49 29.400 -0.180000E-02 0.277000E-01 0.182000E-01 0.320000E-02 0.615000E-01 0.453000E-01
50 30.200 -0.120000E-02 0.258000E-01 0.164000E-01 0.250000E-02 0.549000E-01 0.384000E-01
51 30.400 -0.110000E-02 0.253000E-01 0.159000E-01 0.230000E-02 0.534000E-01 0.369000E-01
52 31.400 -0.500000E-03 0.231000E-01 0.140000E-01 0.160000E-02 0.466000E-01 0.305000E-01
53 31.600 -0.400000E-03 0.227000E-01 0.137000E-01 0.150000E-02 0.454000E-01 0.295000E-01
54 31.800 -0.300000E-03 0.223000E-01 0.133000E-01 0.140000E-02 0.442000E-01 0.285000E-01

Table 3: (3)¹Π -(3-7)¹Π transitions

R	3-3	3-4	3-5	3-6	3-7
3.000	-0.377820E+01	0.317100E+00	-0.360330E+01	0.731500E+00	0.115740E+01
3.200	-0.343700E+01	0.854100E+00	-0.364110E+01	0.436300E+00	0.995000E+00
3.400	-0.314240E+01	0.119550E+01	-0.376060E+01	0.181400E+00	0.970500E+00
3.800	-0.267150E+01	0.177730E+01	-0.410600E+01	0.211200E+00	0.120340E+01
4.000	-0.246080E+01	0.209720E+01	-0.425620E+01	0.366600E+00	0.139850E+01
4.200	-0.223820E+01	0.244660E+01	-0.435280E+01	0.511300E+00	0.160620E+01
4.400	-0.198300E+01	0.281220E+01	-0.438960E+01	0.657500E+00	0.180890E+01
4.600	-0.168600E+01	0.317220E+01	-0.438130E+01	0.808100E+00	0.198780E+01
4.800	-0.134900E+01	0.349820E+01	-0.435470E+01	0.963400E+00	0.214190E+01
5.200	-0.604400E+00	0.397130E+01	-0.434410E+01	0.130350E+01	0.235850E+01
5.400	-0.219200E+00	0.410140E+01	-0.438050E+01	0.150430E+01	0.242230E+01
5.600	0.167500E+00	0.416290E+01	-0.443700E+01	0.173660E+01	0.246290E+01
5.800	0.556800E+00	0.416340E+01	-0.449810E+01	0.200520E+01	0.248160E+01
6.000	0.953400E+00	0.411010E+01	-0.454720E+01	0.231150E+01	0.247560E+01
6.200	0.136380E+01	0.400630E+01	-0.456940E+01	0.265520E+01	0.243840E+01
6.400	0.179500E+01	0.384870E+01	-0.455200E+01	0.303090E+01	0.236140E+01
6.600	0.225120E+01	0.362680E+01	-0.448320E+01	0.342760E+01	0.223650E+01
6.800	0.272990E+01	0.332180E+01	-0.435140E+01	0.382750E+01	0.205890E+01
7.000	0.321470E+01	0.291060E+01	-0.414460E+01	0.420470E+01	0.182860E+01
7.200	0.367100E+01	0.237620E+01	-0.385330E+01	0.451460E+01	0.154960E+01
7.400	0.403160E+01	0.172410E+01	-0.348300E+01	0.475050E+01	0.124680E+01
7.600	0.424100E+01	0.100490E+01	-0.305470E+01	0.487580E+01	0.936100E+00
7.800	0.427710E+01	0.299900E+00	-0.260580E+01	0.488810E+01	0.644000E+00
8.000	0.416370E+01	0.320900E+00	-0.217690E+01	0.481120E+01	0.391500E+00
8.200	0.394990E+01	0.824300E+00	-0.179540E+01	0.468240E+01	0.186600E+00
8.400	0.368670E+01	0.121320E+01	-0.147020E+01	0.452200E+01	0.319000E-01
8.600	0.340340E+01	0.150690E+01	-0.120130E+01	0.435880E+01	-0.781000E-01
8.800	0.312070E+01	0.172960E+01	-0.980500E+00	0.419610E+01	-0.148400E+00
9.000	0.284600E+01	0.190100E+01	-0.800700E+00	0.404250E+01	-0.185800E+00
9.200	0.258250E+01	0.203640E+01	-0.654500E+00	0.390370E+01	-0.194300E+00
9.400	0.233200E+01	0.214700E+01	-0.535300E+00	0.377680E+01	-0.179400E+00
9.600	0.209530E+01	0.224060E+01	-0.437600E+00	0.366250E+01	-0.145300E+00
9.800	0.187230E+01	0.232210E+01	-0.357500E+00	0.356140E+01	-0.951000E-01
10.000	0.166390E+01	0.239490E+01	-0.291100E+00	0.347080E+01	-0.341000E-01
10.200	0.147030E+01	0.246090E+01	-0.235700E+00	0.338860E+01	0.356000E-01
10.400	0.129210E+01	0.252120E+01	-0.188400E+00	0.331420E+01	0.109500E+00
10.600	0.112900E+01	0.257640E+01	-0.147300E+00	0.324750E+01	0.186300E+00
10.800	0.981600E+00	0.262670E+01	-0.110400E+00	0.318570E+01	0.262100E+00
11.000	0.849200E+00	0.267230E+01	-0.758000E-01	0.312870E+01	0.335500E+00
11.200	0.731000E+00	0.271320E+01	-0.422000E-01	0.307660E+01	0.405000E+00
11.400	0.625900E+00	0.274960E+01	-0.820000E-02	0.302890E+01	0.470700E+00
11.600	0.533100E+00	0.278130E+01	0.270000E-01	0.298540E+01	0.530600E+00
11.800	0.450700E+00	0.280900E+01	0.643000E-01	0.294630E+01	0.592400E+00
12.000	0.378100E+00	0.283280E+01	0.104200E+00	0.291190E+01	0.652700E+00
12.200	0.313800E+00	0.285280E+01	0.146400E+00	0.288220E+01	0.713500E+00
12.400	0.257000E+00	0.286940E+01	0.190600E+00	0.285730E+01	0.778100E+00
12.600	0.206900E+00	0.288300E+01	0.236300E+00	0.283680E+01	0.851300E+00
12.800	0.162200E+00	0.289390E+01	0.282300E+00	0.282160E+01	0.945200E+00
13.000	0.122300E+00	0.290250E+01	0.327800E+00	0.281150E+01	0.107640E+01
13.200	0.868000E-01	0.290910E+01	0.371900E+00	0.280670E+01	0.127640E+01
13.400	0.551000E-01	0.291420E+01	0.413700E+00	0.280800E+01	0.159100E+01
13.600	0.267000E-01	0.291800E+01	0.452300E+00	0.281560E+01	0.200180E+01
13.800	0.140000E-02	0.292090E+01	0.487100E+00	0.283010E+01	0.228910E+01
14.000	-0.213000E-01	0.292320E+01	0.518000E+00	0.285220E+01	0.237260E+01
14.200	-0.415000E-01	0.292500E+01	0.544400E+00	0.288250E+01	0.236260E+01
14.400	-0.595000E-01	0.292650E+01	0.566200E+00	0.292100E+01	0.231790E+01
14.600	-0.755000E-01	0.292790E+01	0.583400E+00	0.296790E+01	0.225590E+01
14.800	-0.896000E-01	0.292920E+01	0.596200E+00	0.302260E+01	0.218100E+01
15.000	-0.102100E+00	0.293040E+01	0.604800E+00	0.308410E+01	0.209440E+01
15.200	-0.112900E+00	0.293160E+01	0.609800E+00	0.315130E+01	0.199610E+01
15.400	-0.122300E+00	0.293270E+01	0.611800E+00	0.322190E+01	0.188710E+01
15.600	-0.130400E+00	0.293380E+01	0.611200E+00	0.329370E+01	0.176890E+01
15.800	-0.137200E+00	0.293480E+01	0.608900E+00	0.336430E+01	0.164320E+01
16.000	-0.142900E+00	0.293570E+01	0.605600E+00	0.343150E+01	0.151280E+01
16.200	-0.147600E+00	0.293640E+01	0.601700E+00	0.349330E+01	0.138090E+01
16.400	-0.151300E+00	0.293700E+01	0.597800E+00	0.354860E+01	0.125050E+01
16.600	-0.154100E+00	0.293740E+01	0.593800E+00	0.359610E+01	0.112560E+01
16.800	-0.156100E+00	0.293770E+01	0.590600E+00	0.363730E+01	0.100600E+01
17.000	-0.157400E+00	0.293770E+01	0.588000E+00	0.367180E+01	0.894300E+00
17.200	-0.158000E+00	0.293750E+01	0.586000E+00	0.370020E+01	0.791700E+00
17.400	-0.158000E+00	0.293710E+01	0.584400E+00	0.372330E+01	0.698400E+00
17.600	-0.157500E+00	0.293640E+01	0.583200E+00	0.374190E+01	0.614500E+00
17.800	-0.156400E+00	0.293550E+01	0.582300E+00	0.375660E+01	0.539700E+00
18.000	-0.155000E+00	0.293430E+01	0.581300E+00	0.376810E+01	0.473500E+00
18.200	-0.153200E+00	0.293300E+01	0.580400E+00	0.377710E+01	0.415500E+00
18.400	-0.151000E+00	0.293140E+01	0.579200E+00	0.378390E+01	0.364900E+00

18.600	-0.148600E+00	0.292950E+01	0.577800E+00	0.378900E+01	0.321200E+00
18.800	-0.146000E+00	0.292750E+01	0.576000E+00	0.379280E+01	0.283700E+00
19.000	-0.143100E+00	0.292530E+01	0.573800E+00	0.379540E+01	0.251500E+00
19.200	-0.140000E+00	0.292300E+01	0.571100E+00	0.379710E+01	0.225100E+00
19.400	-0.136800E+00	0.292040E+01	0.567800E+00	0.379810E+01	0.203600E+00
19.600	-0.133600E+00	0.291780E+01	0.563900E+00	0.379850E+01	0.186700E+00
19.800	-0.130100E+00	0.291500E+01	0.559700E+00	0.379810E+01	0.173800E+00
20.000	-0.126700E+00	0.291200E+01	0.554600E+00	0.379770E+01	0.165500E+00
20.200	-0.123300E+00	0.290900E+01	0.549000E+00	0.379710E+01	0.161400E+00
20.400	-0.119800E+00	0.290590E+01	0.542800E+00	0.379620E+01	0.161900E+00
20.600	-0.116300E+00	0.290280E+01	0.536100E+00	0.379520E+01	0.167300E+00
20.800	-0.112900E+00	0.289950E+01	0.528900E+00	0.379400E+01	0.178400E+00
21.000	-0.109400E+00	0.289630E+01	0.521200E+00	0.379280E+01	0.196300E+00
21.200	-0.106000E+00	0.289300E+01	0.513000E+00	0.379160E+01	0.222300E+00
21.400	-0.102700E+00	0.288960E+01	0.504400E+00	0.379030E+01	0.257400E+00
21.600	-0.994000E-01	0.288630E+01	0.495500E+00	0.378900E+01	0.300900E+00
21.800	-0.962000E-01	0.288300E+01	0.486200E+00	0.378780E+01	0.348500E+00
22.000	-0.931000E-01	0.287970E+01	0.476600E+00	0.378650E+01	0.392800E+00
22.200	-0.901000E-01	0.287640E+01	0.466700E+00	0.378530E+01	0.427900E+00
22.400	-0.871000E-01	0.287320E+01	0.456600E+00	0.378420E+01	0.452500E+00
22.600	-0.842000E-01	0.287000E+01	0.446300E+00	0.378310E+01	0.468900E+00
22.800	-0.814000E-01	0.286680E+01	0.435900E+00	0.378210E+01	0.479500E+00
23.000	-0.787000E-01	0.286370E+01	0.425300E+00	0.378120E+01	0.486500E+00
23.200	-0.761000E-01	0.286070E+01	0.414600E+00	0.378030E+01	0.491300E+00
23.400	-0.736000E-01	0.285770E+01	0.403800E+00	0.377950E+01	0.494500E+00
23.600	-0.712000E-01	0.285480E+01	0.393000E+00	0.377870E+01	0.496800E+00
23.800	-0.688000E-01	0.285200E+01	0.382200E+00	0.377810E+01	0.498400E+00
24.000	-0.666000E-01	0.284920E+01	0.371400E+00	0.377750E+01	0.499600E+00
24.200	-0.644000E-01	0.284650E+01	0.360600E+00	0.377700E+01	0.500400E+00
24.400	-0.623000E-01	0.284380E+01	0.349900E+00	0.377660E+01	0.500900E+00
24.800	-0.584000E-01	0.283880E+01	0.328800E+00	0.377590E+01	0.501500E+00
25.000	-0.565000E-01	0.283640E+01	0.318400E+00	0.377560E+01	0.501600E+00
25.400	-0.531000E-01	0.283180E+01	0.298100E+00	0.377530E+01	0.501500E+00
25.600	-0.514000E-01	0.282960E+01	0.288200E+00	0.377520E+01	0.501200E+00
25.800	-0.499000E-01	0.282750E+01	0.278500E+00	0.377520E+01	0.501000E+00
26.000	-0.484000E-01	0.282540E+01	0.269000E+00	0.377530E+01	0.500600E+00
26.400	-0.456000E-01	0.282150E+01	0.250700E+00	0.377550E+01	0.499700E+00
26.600	-0.442000E-01	0.281960E+01	0.241800E+00	0.377570E+01	0.499100E+00
26.800	-0.430000E-01	0.281780E+01	0.233200E+00	0.377590E+01	0.498500E+00
27.000	-0.417000E-01	0.281610E+01	0.224700E+00	0.377590E+01	0.497900E+00
27.200	-0.406000E-01	0.281440E+01	0.216600E+00	0.377620E+01	0.497100E+00
27.400	-0.394000E-01	0.281280E+01	0.208800E+00	0.377640E+01	0.496300E+00
27.600	-0.384000E-01	0.281120E+01	0.201100E+00	0.377680E+01	0.495500E+00
28.000	-0.363000E-01	0.280820E+01	0.186700E+00	0.377750E+01	0.493600E+00
28.200	-0.354000E-01	0.280670E+01	0.179800E+00	0.377780E+01	0.492600E+00
28.600	-0.336000E-01	0.280400E+01	0.166800E+00	0.377850E+01	0.490500E+00
28.800	-0.327000E-01	0.280270E+01	0.160700E+00	0.377880E+01	0.489300E+00
29.400	-0.304000E-01	0.279900E+01	0.143500E+00	0.377970E+01	0.485700E+00
30.200	-0.276000E-01	0.279460E+01	0.123700E+00	0.378070E+01	0.480500E+00
30.400	-0.270000E-01	0.279360E+01	0.119200E+00	0.378090E+01	0.479100E+00
31.400	-0.242000E-01	0.278900E+01	0.993000E-01	0.378160E+01	0.472000E+00
31.600	-0.237000E-01	0.278820E+01	0.958000E-01	0.378160E+01	0.470600E+00
31.800	-0.232000E-01	0.278740E+01	0.924000E-01	0.378160E+01	0.469200E+00

Table 4: (1)³Π - (1-7)³Π transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	-0.106600E+01	0.177950E+01	-0.203740E+01	-0.664000E+00	-0.101810E+01	-0.600400E+00	0.290700E+00
3.200	-0.113380E+01	0.178470E+01	-0.206080E+01	-0.719200E+00	-0.915000E+00	-0.600100E+00	0.313300E+00
3.400	-0.118090E+01	0.180050E+01	-0.208380E+01	-0.742000E+00	-0.828500E+00	-0.598800E+00	0.325800E+00
3.800	-0.123390E+01	0.185000E+01	-0.214190E+01	-0.687200E+00	-0.691100E+00	-0.595000E+00	0.338100E+00
4.000	-0.124580E+01	0.188130E+01	-0.219950E+01	-0.523200E+00	-0.637200E+00	-0.594200E+00	0.340600E+00
4.200	-0.125090E+01	0.191820E+01	-0.220060E+01	-0.549600E+00	-0.593800E+00	-0.594600E+00	0.341300E+00
4.400	-0.125120E+01	0.196150E+01	-0.130210E+01	-0.186170E+01	-0.562900E+00	-0.597000E+00	0.340600E+00
4.600	-0.124840E+01	0.201140E+01	-0.109130E+01	-0.199280E+01	-0.546800E+00	-0.601900E+00	0.338200E+00
4.800	-0.124390E+01	0.206730E+01	-0.101060E+01	-0.203120E+01	-0.549500E+00	-0.610700E+00	0.335700E+00
5.200	-0.123420E+01	0.219260E+01	-0.925200E+00	-0.204710E+01	-0.628800E+00	-0.646500E+00	0.331100E+00
5.400	-0.123030E+01	0.225930E+01	-0.892700E+00	-0.203370E+01	-0.715700E+00	-0.678600E+00	0.329900E+00
5.600	-0.122750E+01	0.232710E+01	-0.861900E+00	-0.200170E+01	-0.836000E+00	-0.724100E+00	0.329900E+00
5.800	-0.122580E+01	0.239480E+01	-0.831200E+00	-0.195220E+01	-0.975100E+00	-0.781800E+00	0.331200E+00
6.000	-0.122530E+01	0.246140E+01	-0.799800E+00	-0.190460E+01	-0.109950E+01	-0.840500E+00	0.333400E+00
6.200	-0.122590E+01	0.252620E+01	-0.766600E+00	-0.189200E+01	-0.117800E+01	-0.880400E+00	0.335400E+00
6.400	-0.122720E+01	0.258830E+01	-0.730800E+00	-0.193120E+01	-0.120730E+01	-0.888300E+00	0.336600E+00
6.600	-0.122910E+01	0.264700E+01	-0.691000E+00	-0.201110E+01	-0.120490E+01	-0.867000E+00	0.336300E+00
6.800	-0.123120E+01	0.270170E+01	-0.645000E+00	-0.211150E+01	-0.119050E+01	-0.828000E+00	0.334200E+00
7.000	-0.123320E+01	0.275160E+01	-0.589400E+00	-0.221920E+01	-0.117670E+01	-0.782000E+00	0.330200E+00
7.200	-0.123480E+01	0.279590E+01	-0.517700E+00	-0.232910E+01	-0.116890E+01	-0.734700E+00	0.322900E+00
7.400	-0.123540E+01	0.283420E+01	-0.419600E+00	-0.243980E+01	-0.116940E+01	-0.689200E+00	0.314800E+00
7.600	-0.123470E+01	0.286570E+01	-0.270100E+00	-0.255110E+01	-0.117780E+01	-0.645900E+00	0.304100E+00
7.800	-0.123200E+01	0.288980E+01	-0.820000E-02	-0.265550E+01	-0.119350E+01	-0.604500E+00	0.289900E+00
8.000	-0.122700E+01	0.290560E+01	0.532800E+00	-0.269410E+01	-0.121590E+01	-0.564400E+00	0.270600E+00
8.200	-0.121890E+01	0.291300E+01	0.154590E+01	-0.237910E+01	-0.124470E+01	-0.525100E+00	0.243500E+00
8.400	-0.120730E+01	0.291080E+01	0.233590E+01	-0.176580E+01	-0.127890E+01	-0.485500E+00	0.199300E+00
8.600	-0.119150E+01	0.289900E+01	0.268240E+01	-0.138310E+01	-0.131870E+01	-0.445200E+00	0.118800E+00
8.800	-0.117100E+01	0.287710E+01	0.287890E+01	-0.116490E+01	-0.136320E+01	-0.403500E+00	-0.578000E-01
9.000	-0.114520E+01	0.284490E+01	0.302320E+01	-0.101760E+01	-0.141200E+01	-0.359900E+00	-0.413500E+00
9.200	-0.111370E+01	0.280250E+01	0.314260E+01	-0.900600E+00	-0.146440E+01	-0.313500E+00	-0.700100E+00
9.400	-0.107620E+01	0.275000E+01	0.324610E+01	-0.795000E+00	-0.151920E+01	-0.263700E+00	-0.835600E+00
9.600	-0.103240E+01	0.268750E+01	0.333690E+01	-0.690400E+00	-0.157470E+01	-0.209300E+00	-0.921200E+00
9.800	-0.982400E+00	0.261540E+01	0.341580E+01	-0.580700E+00	-0.162880E+01	-0.148500E+00	-0.990400E+00
10.000	-0.926700E+00	0.253390E+01	0.348320E+01	-0.461800E+00	-0.167870E+01	-0.777000E-01	-0.105220E+01
10.200	-0.865800E+00	0.244370E+01	0.353890E+01	-0.332400E+00	-0.172080E+01	-0.112000E-01	-0.110860E+01
10.400	-0.800700E+00	0.234530E+01	0.358310E+01	-0.193700E+00	-0.175160E+01	0.139000E+00	-0.115430E+01
10.600	-0.732600E+00	0.223940E+01	0.361590E+01	-0.499000E-01	-0.176820E+01	0.372100E+00	-0.115820E+01
10.800	-0.662700E+00	0.212690E+01	0.363790E+01	0.930000E-01	-0.176900E+01	0.846500E+00	-0.946100E+00
11.000	-0.592800E+00	0.200890E+01	0.364970E+01	0.228900E+00	-0.175460E+01	0.121260E+01	-0.522300E+00
11.200	-0.524100E+00	0.188680E+01	0.365230E+01	0.353500E+00	-0.172670E+01	0.133590E+01	-0.295800E+00
11.400	-0.458000E+00	0.176200E+01	0.364670E+01	0.465100E+00	-0.168700E+01	0.140150E+01	-0.178900E+00
11.600	-0.395700E+00	0.163630E+01	0.363420E+01	0.564100E+00	-0.163700E+01	0.145060E+01	-0.105900E+00
11.800	-0.337900E+00	0.151130E+01	0.361610E+01	0.651400E+00	-0.157680E+01	0.149250E+01	-0.548000E-01
12.000	-0.285200E+00	0.138870E+01	0.359370E+01	0.728000E+00	-0.150620E+01	0.153080E+01	-0.168000E-01
12.200	-0.237800E+00	0.127010E+01	0.356810E+01	0.794700E+00	-0.142420E+01	0.156750E+01	0.123000E-01
12.400	-0.195800E+00	0.115670E+01	0.354070E+01	0.851900E+00	-0.132980E+01	0.160390E+01	0.350000E-01
12.600	-0.159000E+00	0.104970E+01	0.351240E+01	0.900100E+00	-0.122200E+01	0.164010E+01	0.528000E-01
12.800	-0.126900E+00	0.949800E+00	0.348420E+01	0.939000E+00	-0.110080E+01	0.167500E+01	0.669000E-01
13.000	-0.993000E-01	0.857400E+00	0.345690E+01	0.969100E+00	-0.967600E+00	0.170620E+01	0.782000E-01
13.200	-0.757000E-01	0.772800E+00	0.343120E+01	0.990500E+00	-0.826200E+00	0.173050E+01	0.876000E-01
13.400	-0.555000E-01	0.695800E+00	0.340750E+01	0.100380E+01	-0.682900E+00	0.174430E+01	0.957000E-01
13.600	-0.385000E-01	0.626300E+00	0.338610E+01	0.100920E+01	-0.544700E+00	0.174600E+01	0.103300E+00
13.800	-0.241000E-01	0.563800E+00	0.336730E+01	0.100740E+01	-0.418200E+00	0.173570E+01	0.111000E+00
14.000	-0.121000E-01	0.507800E+00	0.335100E+01	0.998900E+00	-0.307200E+00	0.171510E+01	0.119500E+00
14.200	-0.200000E-02	0.457900E+00	0.333710E+01	0.984300E+00	-0.213000E+00	0.168710E+01	0.129700E+00
14.400	0.640000E-02	0.413400E+00	0.332560E+01	0.964200E+00	-0.134900E+00	0.165420E+01	0.142400E+00
14.600	0.133000E-01	0.373900E+00	0.331620E+01	0.939400E+00	-0.710000E-01	0.161810E+01	0.158700E+00
14.800	0.190000E-01	0.338800E+00	0.330860E+01	0.910500E+00	-0.191000E-01	0.158020E+01	0.180300E+00
15.000	0.237000E-01	0.307700E+00	0.330250E+01	0.878200E+00	0.230000E-01	0.154090E+01	0.209500E+00
15.200	0.274000E-01	0.280000E+00	0.329770E+01	0.843200E+00	0.571000E-01	0.149950E+01	0.250000E+00
15.400	0.305000E-01	0.255400E+00	0.329380E+01	0.806100E+00	0.846000E-01	0.145410E+01	0.307700E+00
15.600	0.328000E-01	0.233500E+00	0.329060E+01	0.767500E+00	0.106900E+00	0.139960E+01	0.392400E+00
15.800	0.347000E-01	0.214100E+00	0.328800E+01	0.728100E+00	0.125000E+00	0.132380E+01	0.519100E+00
16.000	0.361000E-01	0.196700E+00	0.328560E+01	0.688400E+00	0.139700E+00	0.120270E+01	0.870000E+00
16.200	0.371000E-01	0.181200E+00	0.328340E+01	0.648800E+00	0.151600E+00	0.101470E+01	0.908800E+00
16.400	0.378000E-01	0.167300E+00	0.328130E+01	0.609800E+00	0.161100E+00	0.798200E+00	0.106820E+01
16.600	0.382000E-01	0.154800E+00	0.327910E+01	0.571500E+00	0.168600E+00	0.621600E+00	0.114850E+01
16.800	0.384000E-01	0.143600E+00	0.327680E+01	0.534400E+00	0.174400E+00	0.499300E+00	0.117710E+01
17.000	0.384000E-01	0.133500E+00	0.327440E+01	0.498600E+00	0.178700E+00	0.416700E+00	0.118020E+01
17.200	0.382000E-01	0.124400E+00	0.327190E+01	0.464400E+00	0.181700E+00	0.359200E+00	0.117100E+01
17.400	0.379000E-01	0.116100E+00	0.326920E+01	0.431700E+00	0.183500E+00	0.317500E+00	0.115530E+01
17.600	0.375000E-01	0.108700E+00	0.326640E+01	0.400800E+00	0.184300E+00	0.286200E+00	0.113590E+01
17.800	0.370000E-01	0.101900E+00	0.326350E+01	0.371700E+00	0.184100E+00	0.261800E+00	0.111410E+01
18.000	0.364000E-01	0.957000E-01	0.326050E+01	0.344300E+00	0.183100E+00	0.242400E+00	0.109100E+01
18.200	0.358000E-01	0.900000E-01	0.325740E+01	0.318700E+00	0.181200E+00	0.226400E+00	0.106650E+01
18.400	0.351000E-01	0.848000E-01	0.325430E+01	0.294800E+00	0.178800E+00	0.213100E+00	0.104110E+01

18.600	0.344000E-01	0.801000E-01	0.325110E+01	0.272700E+00	0.175800E+00	0.201700E+00	0.101530E+01
18.800	0.337000E-01	0.757000E-01	0.324790E+01	0.252200E+00	0.172200E+00	0.191900E+00	0.988900E+00
19.000	0.330000E-01	0.717000E-01	0.324470E+01	0.233200E+00	0.167800E+00	0.183900E+00	0.963700E+00
19.200	0.322000E-01	0.680000E-01	0.324140E+01	0.215900E+00	0.163700E+00	0.176200E+00	0.936900E+00
19.400	0.315000E-01	0.645000E-01	0.323820E+01	0.199900E+00	0.159200E+00	0.169300E+00	0.910800E+00
19.600	0.307000E-01	0.613000E-01	0.323510E+01	0.185300E+00	0.154700E+00	0.163100E+00	0.885000E+00
19.800	0.299000E-01	0.583000E-01	0.323190E+01	0.171900E+00	0.149700E+00	0.157600E+00	0.860100E+00
20.000	0.292000E-01	0.556000E-01	0.322880E+01	0.159700E+00	0.145000E+00	0.152300E+00	0.835200E+00
20.200	0.284000E-01	0.530000E-01	0.322580E+01	0.148500E+00	0.140400E+00	0.147500E+00	0.811000E+00
20.400	0.277000E-01	0.506000E-01	0.322280E+01	0.138300E+00	0.135900E+00	0.142900E+00	0.787500E+00
20.600	0.270000E-01	0.483000E-01	0.321990E+01	0.128900E+00	0.131400E+00	0.138700E+00	0.764800E+00
20.800	0.263000E-01	0.462000E-01	0.321700E+01	0.120400E+00	0.127100E+00	0.134700E+00	0.742700E+00
21.000	0.256000E-01	0.443000E-01	0.321420E+01	0.112600E+00	0.123000E+00	0.130900E+00	0.721200E+00
21.200	0.249000E-01	0.424000E-01	0.321140E+01	0.105400E+00	0.119100E+00	0.127300E+00	0.700100E+00
21.400	0.242000E-01	0.406000E-01	0.320880E+01	0.988000E-01	0.115300E+00	0.123900E+00	0.678600E+00
21.600	0.236000E-01	0.390000E-01	0.320610E+01	0.929000E-01	0.111800E+00	0.120500E+00	0.653400E+00
21.800	0.230000E-01	0.374000E-01	0.320360E+01	0.873000E-01	0.108500E+00	0.117400E+00	0.595000E+00
22.000	0.223000E-01	0.359000E-01	0.320110E+01	0.823000E-01	0.105400E+00	0.114400E+00	0.248700E+00
22.200	0.217000E-01	0.345000E-01	0.319870E+01	0.776000E-01	0.102500E+00	0.111400E+00	0.798000E-01
22.400	0.212000E-01	0.332000E-01	0.319630E+01	0.733000E-01	0.997000E-01	0.108600E+00	0.327000E-01
22.600	0.206000E-01	0.320000E-01	0.319400E+01	0.694000E-01	0.973000E-01	0.105800E+00	0.107000E-01
22.800	0.201000E-01	0.308000E-01	0.319180E+01	0.657000E-01	0.948000E-01	0.103300E+00	0.190000E-02
23.000	0.195000E-01	0.296000E-01	0.318960E+01	0.623000E-01	0.927000E-01	0.100700E+00	0.104000E-01
23.200	0.190000E-01	0.286000E-01	0.318750E+01	0.592000E-01	0.907000E-01	0.982000E-01	0.166000E-01
23.400	0.185000E-01	0.275000E-01	0.318540E+01	0.563000E-01	0.890000E-01	0.958000E-01	0.213000E-01
23.600	0.180000E-01	0.265000E-01	0.318340E+01	0.536000E-01	0.874000E-01	0.934000E-01	0.250000E-01
23.800	0.176000E-01	0.256000E-01	0.318140E+01	0.511000E-01	0.860000E-01	0.910000E-01	0.278000E-01
24.000	0.171000E-01	0.247000E-01	0.317950E+01	0.487000E-01	0.847000E-01	0.887000E-01	0.301000E-01
24.200	0.167000E-01	0.239000E-01	0.317770E+01	0.466000E-01	0.835000E-01	0.864000E-01	0.318000E-01
24.400	0.162000E-01	0.231000E-01	0.317590E+01	0.445000E-01	0.825000E-01	0.842000E-01	0.332000E-01
24.800	0.154000E-01	0.215000E-01	0.317240E+01	0.409000E-01	0.808000E-01	0.799000E-01	0.347000E-01
25.000	0.150000E-01	0.208000E-01	0.317070E+01	0.392000E-01	0.801000E-01	0.778000E-01	0.351000E-01
25.400	0.143000E-01	0.195000E-01	0.316750E+01	0.362000E-01	0.789000E-01	0.736000E-01	0.353000E-01
25.600	0.139000E-01	0.189000E-01	0.316600E+01	0.348000E-01	0.784000E-01	0.716000E-01	0.350000E-01
25.800	0.135000E-01	0.183000E-01	0.316450E+01	0.335000E-01	0.779000E-01	0.697000E-01	0.344000E-01
26.000	0.132000E-01	0.177000E-01	0.316300E+01	0.323000E-01	0.775000E-01	0.678000E-01	0.338000E-01
26.400	0.126000E-01	0.166000E-01	0.316020E+01	0.301000E-01	0.766000E-01	0.643000E-01	0.320000E-01
26.600	0.123000E-01	0.161000E-01	0.315890E+01	0.291000E-01	0.762000E-01	0.626000E-01	0.310000E-01
26.800	0.120000E-01	0.156000E-01	0.315760E+01	0.281000E-01	0.758000E-01	0.610000E-01	0.298000E-01
27.000	0.117000E-01	0.152000E-01	0.315630E+01	0.271000E-01	0.752000E-01	0.596000E-01	0.283000E-01
27.200	0.114000E-01	0.147000E-01	0.315510E+01	0.263000E-01	0.748000E-01	0.581000E-01	0.270000E-01
27.400	0.111000E-01	0.143000E-01	0.315390E+01	0.254000E-01	0.745000E-01	0.566000E-01	0.258000E-01
27.600	0.109000E-01	0.138000E-01	0.315270E+01	0.247000E-01	0.741000E-01	0.551000E-01	0.244000E-01
28.000	0.104000E-01	0.131000E-01	0.315040E+01	0.232000E-01	0.733000E-01	0.524000E-01	0.216000E-01
28.200	0.101000E-01	0.127000E-01	0.314930E+01	0.225000E-01	0.729000E-01	0.511000E-01	0.202000E-01
28.600	0.970000E-02	0.120000E-01	0.314720E+01	0.212000E-01	0.721000E-01	0.486000E-01	0.174000E-01
28.800	0.950000E-02	0.116000E-01	0.314620E+01	0.207000E-01	0.717000E-01	0.475000E-01	0.161000E-01
29.400	0.890000E-02	0.107000E-01	0.314330E+01	0.190000E-01	0.705000E-01	0.441000E-01	0.121000E-01
30.200	0.820000E-02	0.960000E-02	0.313980E+01	0.171000E-01	0.690000E-01	0.400000E-01	0.760000E-02
30.400	0.800000E-02	0.930000E-02	0.313900E+01	0.167000E-01	0.687000E-01	0.390000E-01	0.670000E-02
31.400	0.720000E-02	0.820000E-02	0.313500E+01	0.148000E-01	0.670000E-01	0.342000E-01	0.280000E-02
31.600	0.710000E-02	0.800000E-02	0.313440E+01	0.144000E-01	0.667000E-01	0.333000E-01	0.220000E-02
31.800	0.700000E-02	0.780000E-02	0.313370E+01	0.141000E-01	0.664000E-01	0.325000E-01	0.160000E-02

Table 5: (2)³Π -(2-7)³Π transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.000	0.127580E+01	0.527600E+00	0.629300E+00	-0.929900E+00	-0.139350E+01	-0.143700E+00
3.200	0.145050E+01	0.521900E+00	0.616100E+00	-0.910300E+00	-0.157630E+01	-0.895000E-01
3.400	0.160750E+01	0.518900E+00	0.640800E+00	-0.861200E+00	-0.174960E+01	-0.598000E-01
3.800	0.189650E+01	0.529200E+00	0.773100E+00	-0.707200E+00	-0.209060E+01	-0.344000E-01
4.000	0.202870E+01	0.583400E+00	0.846100E+00	-0.610100E+00	-0.225900E+01	-0.305000E-01
4.200	0.214740E+01	0.963600E+00	0.607200E+00	-0.499800E+00	-0.242360E+01	-0.300000E-01
4.400	0.224760E+01	0.126250E+01	0.106500E+00	-0.374400E+00	-0.258090E+01	-0.317000E-01
4.600	0.232570E+01	0.139580E+01	0.181400E+00	-0.230700E+00	-0.272690E+01	-0.350000E-01
4.800	0.237930E+01	0.154700E+01	0.167300E+00	0.658000E-01	-0.285750E+01	-0.393000E-01
5.200	0.241260E+01	0.186080E+01	0.331000E-01	0.336800E+00	-0.305180E+01	-0.522000E-01
5.400	0.239520E+01	0.201280E+01	-0.954000E-01	0.572500E+00	-0.310230E+01	-0.616000E-01
5.600	0.235840E+01	0.215750E+01	-0.280700E+00	0.820000E+00	-0.311070E+01	-0.733000E-01
5.800	0.230470E+01	0.229310E+01	-0.520400E+00	0.106550E+01	-0.306890E+01	-0.877000E-01
6.000	0.223680E+01	0.241850E+01	-0.773600E+00	0.130810E+01	-0.297240E+01	-0.105200E+00
6.200	0.215700E+01	0.253340E+01	-0.968500E+00	0.156750E+01	-0.282710E+01	-0.125400E+00
6.400	0.206710E+01	0.263800E+01	-0.105560E+01	0.184960E+01	-0.264820E+01	-0.148400E+00
6.600	0.196860E+01	0.273290E+01	-0.103910E+01	0.212610E+01	-0.245500E+01	-0.173900E+00
6.800	0.186260E+01	0.281910E+01	-0.954500E+00	0.236300E+01	-0.226390E+01	-0.201900E+00
7.000	0.174970E+01	0.289760E+01	-0.834100E+00	0.254530E+01	-0.208610E+01	-0.232600E+00
7.200	0.163060E+01	0.297020E+01	-0.691700E+00	0.267460E+01	-0.192510E+01	-0.267900E+00
7.400	0.150530E+01	0.303670E+01	-0.524200E+00	0.275800E+01	-0.178450E+01	-0.305500E+00
7.600	0.137390E+01	0.309670E+01	-0.305200E+00	0.280420E+01	-0.166230E+01	-0.348100E+00
7.800	0.123660E+01	0.313960E+01	0.343000E-01	0.281970E+01	-0.155590E+01	-0.397300E+00
8.000	0.109350E+01	0.309230E+01	0.677300E+00	0.281020E+01	-0.146330E+01	-0.457000E+00
8.200	0.944400E+00	0.262550E+01	0.180930E+01	0.278010E+01	-0.138390E+01	-0.532600E+00
8.400	0.790700E+00	0.184490E+01	0.262700E+01	0.273420E+01	-0.131340E+01	-0.643500E+00
8.600	0.632400E+00	0.135120E+01	0.293380E+01	0.267590E+01	-0.125260E+01	-0.828000E+00
8.800	0.471400E+00	0.104880E+01	0.307530E+01	0.260990E+01	-0.119800E+01	-0.119430E+01
9.000	0.308700E+00	0.826100E+00	0.316220E+01	0.254080E+01	-0.114950E+01	-0.183060E+01
9.200	0.146200E+00	0.637000E+00	0.322550E+01	0.247380E+01	-0.110680E+01	-0.227480E+01
9.400	-0.140000E-01	0.461500E+00	0.327560E+01	0.241470E+01	-0.106960E+01	-0.247850E+01
9.600	-0.169600E+00	0.290800E+00	0.331590E+01	0.236930E+01	-0.103880E+01	-0.258270E+01
9.800	-0.318200E+00	0.121000E+00	0.334680E+01	0.234300E+01	-0.101750E+01	-0.261960E+01
10.000	-0.457300E+00	-0.487000E-01	0.336740E+01	0.233970E+01	-0.101100E+01	-0.259730E+01
10.200	-0.584400E+00	-0.217700E+00	0.337640E+01	0.236060E+01	-0.103270E+01	-0.251780E+01
10.400	-0.697100E+00	-0.384000E+00	0.337320E+01	0.240270E+01	-0.111640E+01	-0.236860E+01
10.600	-0.793200E+00	-0.545000E+00	0.335920E+01	0.245860E+01	-0.135910E+01	-0.207940E+01
10.800	-0.870900E+00	-0.697600E+00	0.333720E+01	0.251760E+01	-0.189040E+01	-0.135020E+01
11.000	-0.928900E+00	-0.838600E+00	0.331040E+01	0.256980E+01	-0.208410E+01	-0.485900E+00
11.200	-0.966700E+00	-0.965000E+00	0.328030E+01	0.260850E+01	-0.193320E+01	-0.154100E+00
11.400	-0.984300E+00	-0.107400E+01	0.324610E+01	0.263130E+01	-0.172530E+01	-0.431000E-01
11.600	-0.982800E+00	-0.116340E+01	0.320500E+01	0.263940E+01	-0.150290E+01	-0.800000E-02
11.800	-0.964000E+00	-0.123140E+01	0.315400E+01	0.263510E+01	-0.127380E+01	0.340000E-02
12.000	-0.930300E+00	-0.127760E+01	0.309110E+01	0.262050E+01	-0.103980E+01	0.116000E-01
12.200	-0.884700E+00	-0.130190E+01	0.301560E+01	0.259690E+01	-0.801300E+00	0.243000E-01
12.400	-0.830300E+00	-0.130540E+01	0.292830E+01	0.256390E+01	-0.558500E+00	0.371000E-01
12.600	-0.770200E+00	-0.129000E+01	0.283070E+01	0.251980E+01	-0.310900E+00	0.478000E-01
12.800	-0.707300E+00	-0.125770E+01	0.272480E+01	0.246180E+01	0.606000E-01	0.551000E-01
13.000	-0.644100E+00	-0.121120E+01	0.261280E+01	0.238720E+01	0.189700E+00	0.590000E-01
13.200	-0.582600E+00	-0.115340E+01	0.249680E+01	0.229430E+01	0.433600E+00	0.595000E-01
13.400	-0.524100E+00	-0.108710E+01	0.237890E+01	0.218420E+01	0.663000E+00	0.576000E-01
13.600	-0.469500E+00	-0.101480E+01	0.226070E+01	0.206130E+01	0.869800E+00	0.543000E-01
13.800	-0.419500E+00	-0.938900E+00	0.214340E+01	0.193190E+01	0.104930E+01	0.510000E-01
14.000	-0.374300E+00	-0.861400E+00	0.202800E+01	0.180290E+01	0.120040E+01	0.489000E-01
14.200	-0.333700E+00	-0.784000E+00	0.191530E+01	0.167940E+01	0.132550E+01	0.499000E-01
14.400	-0.297600E+00	-0.708100E+00	0.180570E+01	0.156440E+01	0.142860E+01	0.556000E-01
14.600	-0.265700E+00	-0.634700E+00	0.169950E+01	0.145930E+01	0.151420E+01	0.684000E-01
14.800	-0.237500E+00	-0.564800E+00	0.159700E+01	0.136430E+01	0.158630E+01	0.907000E-01
15.000	-0.212800E+00	-0.498900E+00	0.149810E+01	0.127880E+01	0.164790E+01	0.126400E+00
15.200	-0.191200E+00	-0.437400E+00	0.140330E+01	0.120220E+01	0.170050E+01	0.180800E+00
15.400	-0.172200E+00	-0.380400E+00	0.131190E+01	0.113270E+01	0.174330E+01	0.264100E+00
15.600	-0.155500E+00	-0.328200E+00	0.122430E+01	0.107010E+01	0.177110E+01	0.391700E+00
15.800	-0.140800E+00	-0.280600E+00	0.114050E+01	0.101320E+01	0.176790E+01	0.589100E+00
16.000	-0.128000E+00	-0.237600E+00	0.106040E+01	0.961400E+00	0.169710E+01	0.882800E+00
16.200	-0.116600E+00	-0.199000E+00	0.984000E+00	0.913900E+00	0.151590E+01	0.124730E+01
16.400	-0.106600E+00	-0.164500E+00	0.911300E+00	0.870000E+00	0.126260E+01	0.156970E+01
16.600	-0.978000E-01	-0.133800E+00	0.842500E+00	0.829700E+00	0.103660E+01	0.178920E+01
16.800	-0.899000E-01	-0.106800E+00	0.777200E+00	0.791700E+00	0.871500E+00	0.193550E+01
17.000	-0.829000E-01	-0.829000E-01	0.715500E+00	0.755900E+00	0.755000E+00	0.204440E+01
17.200	-0.766000E-01	-0.621000E-01	0.657400E+00	0.722100E+00	0.670600E+00	0.213500E+01
17.400	-0.710000E-01	-0.439000E-01	0.603000E+00	0.689800E+00	0.606800E+00	0.221610E+01
17.600	-0.659000E-01	-0.281000E-01	0.552100E+00	0.658800E+00	0.556500E+00	0.229200E+01
17.800	-0.614000E-01	-0.145000E-01	0.504800E+00	0.629000E+00	0.515500E+00	0.236460E+01
18.000	-0.572000E-01	-0.280000E-02	0.460900E+00	0.600300E+00	0.481200E+00	0.243470E+01
18.200	-0.535000E-01	0.730000E-02	0.420400E+00	0.572400E+00	0.451500E+00	0.250250E+01
18.400	-0.500000E-01	0.159000E-01	0.383100E+00	0.545300E+00	0.425500E+00	0.256780E+01

18.600	-0.469000E-01	0.232000E-01	0.349000E+00	0.519000E+00	0.402300E+00	0.263020E+01
18.800	-0.440000E-01	0.294000E-01	0.317900E+00	0.493500E+00	0.381400E+00	0.268970E+01
19.000	-0.413000E-01	0.346000E-01	0.289200E+00	0.467000E+00	0.360600E+00	0.274240E+01
19.200	-0.389000E-01	0.389000E-01	0.263500E+00	0.443000E+00	0.342900E+00	0.279440E+01
19.400	-0.366000E-01	0.424000E-01	0.240400E+00	0.419800E+00	0.326700E+00	0.284250E+01
19.600	-0.345000E-01	0.453000E-01	0.219500E+00	0.397400E+00	0.311500E+00	0.288660E+01
19.800	-0.325000E-01	0.477000E-01	0.200700E+00	0.376200E+00	0.297600E+00	0.292660E+01
20.000	-0.307000E-01	0.496000E-01	0.183800E+00	0.355500E+00	0.284400E+00	0.296250E+01
20.200	-0.290000E-01	0.510000E-01	0.168600E+00	0.335800E+00	0.272000E+00	0.299450E+01
20.400	-0.274000E-01	0.521000E-01	0.155000E+00	0.316900E+00	0.260500E+00	0.302250E+01
20.600	-0.259000E-01	0.529000E-01	0.142700E+00	0.298800E+00	0.249500E+00	0.304670E+01
20.800	-0.245000E-01	0.534000E-01	0.131700E+00	0.281600E+00	0.239300E+00	0.306700E+01
21.000	-0.232000E-01	0.537000E-01	0.121800E+00	0.265200E+00	0.229600E+00	0.308320E+01
21.200	-0.219000E-01	0.538000E-01	0.113000E+00	0.249600E+00	0.220400E+00	0.309430E+01
21.400	-0.208000E-01	0.537000E-01	0.105000E+00	0.234700E+00	0.211800E+00	0.309680E+01
21.600	-0.197000E-01	0.535000E-01	0.977000E-01	0.220600E+00	0.203700E+00	0.307500E+01
21.800	-0.186000E-01	0.532000E-01	0.912000E-01	0.207200E+00	0.196000E+00	0.288160E+01
22.000	-0.176000E-01	0.528000E-01	0.853000E-01	0.194500E+00	0.188800E+00	0.123410E+01
22.200	-0.167000E-01	0.523000E-01	0.800000E-01	0.182400E+00	0.181900E+00	0.419200E+00
22.400	-0.158000E-01	0.517000E-01	0.751000E-01	0.171000E+00	0.175400E+00	0.200700E+00
22.600	-0.150000E-01	0.511000E-01	0.707000E-01	0.160100E+00	0.169200E+00	0.106000E+00
22.800	-0.142000E-01	0.504000E-01	0.667000E-01	0.150000E+00	0.163500E+00	0.545000E-01
23.000	-0.135000E-01	0.497000E-01	0.630000E-01	0.140200E+00	0.158100E+00	0.225000E-01
23.200	-0.128000E-01	0.489000E-01	0.596000E-01	0.131000E+00	0.152800E+00	0.100000E-02
23.400	-0.121000E-01	0.482000E-01	0.565000E-01	0.122200E+00	0.147900E+00	0.141000E-01
23.600	-0.115000E-01	0.474000E-01	0.537000E-01	0.113800E+00	0.143200E+00	0.251000E-01
23.800	-0.109000E-01	0.466000E-01	0.510000E-01	0.105900E+00	0.138700E+00	0.333000E-01
24.000	-0.103000E-01	0.458000E-01	0.486000E-01	0.984000E-01	0.134400E+00	0.395000E-01
24.200	-0.970000E-02	0.450000E-01	0.464000E-01	0.913000E-01	0.130300E+00	0.442000E-01
24.400	-0.920000E-02	0.442000E-01	0.443000E-01	0.846000E-01	0.126400E+00	0.478000E-01
24.800	-0.830000E-02	0.427000E-01	0.406000E-01	0.723000E-01	0.119000E+00	0.526000E-01
25.000	-0.780000E-02	0.419000E-01	0.389000E-01	0.667000E-01	0.115400E+00	0.541000E-01
25.400	-0.700000E-02	0.404000E-01	0.358000E-01	0.563000E-01	0.108700E+00	0.560000E-01
25.600	-0.660000E-02	0.396000E-01	0.345000E-01	0.517000E-01	0.105500E+00	0.564000E-01
25.800	-0.620000E-02	0.389000E-01	0.332000E-01	0.473000E-01	0.102400E+00	0.565000E-01
26.000	-0.590000E-02	0.381000E-01	0.319000E-01	0.433000E-01	0.994000E-01	0.564000E-01
26.400	-0.520000E-02	0.367000E-01	0.297000E-01	0.361000E-01	0.937000E-01	0.557000E-01
26.600	-0.490000E-02	0.360000E-01	0.287000E-01	0.329000E-01	0.909000E-01	0.551000E-01
26.800	-0.460000E-02	0.353000E-01	0.277000E-01	0.299000E-01	0.883000E-01	0.544000E-01
27.000	-0.430000E-02	0.347000E-01	0.268000E-01	0.272000E-01	0.856000E-01	0.539000E-01
27.200	-0.410000E-02	0.340000E-01	0.259000E-01	0.247000E-01	0.831000E-01	0.530000E-01
27.400	-0.380000E-02	0.334000E-01	0.250000E-01	0.224000E-01	0.806000E-01	0.522000E-01
27.600	-0.360000E-02	0.327000E-01	0.242000E-01	0.203000E-01	0.783000E-01	0.513000E-01
28.000	-0.310000E-02	0.315000E-01	0.228000E-01	0.167000E-01	0.738000E-01	0.492000E-01
28.200	-0.290000E-02	0.309000E-01	0.221000E-01	0.152000E-01	0.716000E-01	0.482000E-01
28.600	-0.250000E-02	0.298000E-01	0.208000E-01	0.125000E-01	0.676000E-01	0.460000E-01
28.800	-0.230000E-02	0.293000E-01	0.202000E-01	0.113000E-01	0.657000E-01	0.448000E-01
29.400	-0.180000E-02	0.277000E-01	0.185000E-01	0.850000E-02	0.603000E-01	0.413000E-01
30.200	-0.120000E-02	0.257000E-01	0.165000E-01	0.570000E-02	0.540000E-01	0.369000E-01
30.400	-0.110000E-02	0.253000E-01	0.161000E-01	0.520000E-02	0.525000E-01	0.358000E-01
31.400	-0.500000E-03	0.231000E-01	0.141000E-01	0.320000E-02	0.459000E-01	0.307000E-01
31.600	-0.400000E-03	0.227000E-01	0.137000E-01	0.290000E-02	0.447000E-01	0.298000E-01
31.800	-0.300000E-03	0.223000E-01	0.134000E-01	0.260000E-02	0.435000E-01	0.289000E-01

Table 6: (3)³Π -(3-7)³Π transitions

R	3-3	3-4	3-5	3-6	3-7
3.000	0.411700E+00	0.173600E+00	0.214100E+00	0.251800E+00	-0.116900E+00
3.200	0.405200E+00	0.140000E+00	0.249300E+00	0.215700E+00	-0.120000E+00
3.400	0.401500E+00	0.967000E-01	0.301500E+00	0.207500E+00	-0.122800E+00
3.800	0.406100E+00	-0.933000E-01	0.515700E+00	0.242500E+00	-0.173100E+00
4.000	0.374000E+00	-0.447100E+00	-0.854200E+00	0.250800E+00	-0.313900E+00
4.200	-0.971500E+00	-0.222080E+01	-0.269510E+01	0.842000E-01	-0.122010E+01
4.400	-0.404990E+01	-0.142230E+01	-0.431770E+01	0.130800E+00	-0.203530E+01
4.600	-0.426150E+01	-0.102860E+01	-0.450050E+01	0.230000E-02	-0.204840E+01
4.800	-0.427330E+01	-0.948000E+00	-0.462660E+01	-0.216400E+00	-0.202250E+01
5.200	-0.417740E+01	-0.104830E+01	-0.479970E+01	-0.838900E+00	-0.193910E+01
5.400	-0.410120E+01	-0.116940E+01	-0.482610E+01	-0.125130E+01	-0.188630E+01
5.600	-0.401250E+01	-0.130870E+01	-0.479440E+01	-0.172940E+01	-0.182820E+01
5.800	-0.391360E+01	-0.140980E+01	-0.470440E+01	-0.226140E+01	-0.176650E+01
6.000	-0.380620E+01	-0.138280E+01	-0.457810E+01	-0.282500E+01	-0.170200E+01
6.200	-0.369160E+01	-0.117250E+01	-0.443230E+01	-0.339480E+01	-0.163530E+01
6.400	-0.357030E+01	-0.823700E+00	-0.425060E+01	-0.394480E+01	-0.156660E+01
6.600	-0.344200E+01	-0.437900E+00	-0.401580E+01	-0.445220E+01	-0.149570E+01
6.800	-0.330560E+01	-0.895000E-01	-0.374080E+01	-0.490300E+01	-0.142190E+01
7.000	-0.315850E+01	0.200100E+00	-0.345290E+01	-0.529560E+01	-0.134390E+01
7.200	-0.299720E+01	0.442700E+00	-0.317450E+01	-0.563570E+01	-0.125580E+01
7.400	-0.280850E+01	0.660500E+00	-0.291120E+01	-0.593160E+01	-0.116150E+01
7.600	-0.257090E+01	0.880600E+00	-0.266090E+01	-0.618530E+01	-0.104890E+01
7.800	-0.222100E+01	0.113250E+01	-0.240200E+01	-0.637150E+01	-0.898300E+00
8.000	-0.156310E+01	0.139920E+01	-0.204900E+01	-0.632480E+01	-0.652300E+00
8.200	-0.380100E+00	0.120210E+01	-0.137320E+01	-0.534870E+01	-0.224400E+00
8.400	0.275200E+00	0.364200E+00	-0.669500E+00	-0.375710E+01	-0.111200E+00
8.600	0.347400E+00	0.190600E+00	-0.326600E+00	-0.283800E+01	-0.179500E+00
8.800	0.301100E+00	0.520600E+00	-0.171100E+00	-0.236440E+01	0.399000E-01
9.000	0.228400E+00	0.758600E+00	-0.962000E-01	-0.209330E+01	0.379900E+00
9.200	0.141800E+00	0.958300E+00	-0.601000E-01	-0.192470E+01	0.795700E+00
9.400	0.413000E-01	0.114280E+01	-0.431000E-01	-0.181610E+01	0.104580E+01
9.600	-0.750000E-01	0.132340E+01	-0.327000E-01	-0.174670E+01	0.121970E+01
9.800	-0.208600E+00	0.150630E+01	-0.193000E-01	-0.170700E+01	0.134990E+01
10.000	-0.360300E+00	0.169460E+01	0.510000E-02	-0.169520E+01	0.144290E+01
10.200	-0.529800E+00	0.188950E+01	0.467000E-01	-0.171590E+01	0.148980E+01
10.400	-0.716300E+00	0.209080E+01	0.109200E+00	-0.179160E+01	0.145980E+01
10.600	-0.918300E+00	0.229740E+01	0.192600E+00	-0.198430E+01	0.123920E+01
10.800	-0.113320E+01	0.250810E+01	0.292600E+00	-0.231090E+01	0.452800E+00
11.000	-0.135830E+01	0.272210E+01	0.402700E+00	-0.231120E+01	0.460300E+00
11.200	-0.159040E+01	0.293880E+01	0.516600E+00	-0.220360E+01	0.804600E+00
11.400	-0.182560E+01	0.315790E+01	0.630700E+00	-0.212580E+01	0.934100E+00
11.600	-0.205980E+01	0.337780E+01	0.743600E+00	-0.205860E+01	0.991000E+00
11.800	-0.228920E+01	0.359750E+01	0.856500E+00	-0.199130E+01	0.101820E+01
12.000	-0.250900E+01	0.381440E+01	0.971000E+00	-0.191750E+01	0.103130E+01
12.200	-0.271490E+01	0.402650E+01	0.108840E+01	-0.183380E+01	0.103790E+01
12.400	-0.290270E+01	0.423160E+01	0.120930E+01	-0.173750E+01	0.104210E+01
12.600	-0.306840E+01	0.442760E+01	0.133290E+01	-0.162550E+01	0.104630E+01
12.800	-0.320950E+01	0.461370E+01	0.145740E+01	-0.149800E+01	0.105340E+01
13.000	-0.332330E+01	0.478840E+01	0.157830E+01	-0.135410E+01	0.106410E+01
13.200	-0.340810E+01	0.495020E+01	0.169020E+01	-0.119600E+01	0.107950E+01
13.400	-0.346300E+01	0.509830E+01	0.178760E+01	-0.102950E+01	0.110040E+01
13.600	-0.348810E+01	0.523160E+01	0.186640E+01	-0.862100E+00	0.112690E+01
13.800	-0.348390E+01	0.534930E+01	0.192580E+01	-0.701800E+00	0.115910E+01
14.000	-0.345190E+01	0.545050E+01	0.196720E+01	-0.554100E+00	0.119680E+01
14.200	-0.339400E+01	0.553440E+01	0.199410E+01	-0.421600E+00	0.123960E+01
14.400	-0.331260E+01	0.560040E+01	0.201020E+01	-0.303800E+00	0.128680E+01
14.600	-0.321060E+01	0.564820E+01	0.201870E+01	-0.198300E+00	0.133740E+01
14.800	-0.309110E+01	0.567760E+01	0.202240E+01	-0.101200E+00	0.139030E+01
15.000	-0.295740E+01	0.568870E+01	0.202330E+01	-0.690000E-02	0.144370E+01
15.200	-0.281270E+01	0.568160E+01	0.202200E+01	0.912000E-01	0.149520E+01
15.400	-0.266060E+01	0.565760E+01	0.202140E+01	0.204200E+00	0.154160E+01
15.600	-0.250400E+01	0.561760E+01	0.202130E+01	0.347900E+00	0.157490E+01
15.800	-0.234580E+01	0.556270E+01	0.202250E+01	0.546700E+00	0.157820E+01
16.000	-0.218860E+01	0.549450E+01	0.202520E+01	0.825500E+00	0.151600E+01
16.200	-0.203430E+01	0.541450E+01	0.202980E+01	0.116120E+01	0.134900E+01
16.400	-0.188490E+01	0.532460E+01	0.203640E+01	0.145250E+01	0.111540E+01
16.600	-0.174160E+01	0.522680E+01	0.204570E+01	0.164630E+01	0.908000E+00
16.800	-0.160530E+01	0.512220E+01	0.205590E+01	0.176950E+01	0.759700E+00
17.000	-0.147680E+01	0.501270E+01	0.206760E+01	0.185490E+01	0.658100E+00
17.200	-0.135640E+01	0.490000E+01	0.208020E+01	0.191970E+01	0.587600E+00
17.400	-0.124420E+01	0.478540E+01	0.209320E+01	0.197220E+01	0.537200E+00
17.600	-0.114020E+01	0.467030E+01	0.210610E+01	0.201660E+01	0.500100E+00
17.800	-0.104420E+01	0.455600E+01	0.211810E+01	0.205510E+01	0.471900E+00
18.000	-0.955900E+00	0.444340E+01	0.212880E+01	0.208910E+01	0.450000E+00
18.200	-0.874800E+00	0.433360E+01	0.213760E+01	0.211950E+01	0.432400E+00
18.400	-0.800700E+00	0.422730E+01	0.214400E+01	0.214690E+01	0.417900E+00

18.600	-0.732900E+00	0.412510E+01	0.214780E+01	0.217170E+01	0.405700E+00
18.800	-0.671000E+00	0.402760E+01	0.214860E+01	0.219440E+01	0.394900E+00
19.000	-0.614600E+00	0.393490E+01	0.214520E+01	0.221430E+01	0.387000E+00
19.200	-0.563300E+00	0.384770E+01	0.214010E+01	0.223380E+01	0.378200E+00
19.400	-0.516600E+00	0.376590E+01	0.213200E+01	0.225210E+01	0.370000E+00
19.600	-0.474200E+00	0.368940E+01	0.212100E+01	0.226940E+01	0.362400E+00
19.800	-0.435500E+00	0.361820E+01	0.210730E+01	0.228540E+01	0.355100E+00
20.000	-0.400400E+00	0.355220E+01	0.209130E+01	0.230150E+01	0.348800E+00
20.200	-0.368500E+00	0.349110E+01	0.207300E+01	0.231720E+01	0.343300E+00
20.400	-0.339500E+00	0.343470E+01	0.205270E+01	0.233270E+01	0.339000E+00
20.600	-0.313100E+00	0.338270E+01	0.203070E+01	0.234830E+01	0.336500E+00
20.800	-0.289000E+00	0.333500E+01	0.200700E+01	0.236390E+01	0.336500E+00
21.000	-0.267200E+00	0.329110E+01	0.198190E+01	0.238000E+01	0.341100E+00
21.200	-0.247300E+00	0.325080E+01	0.195550E+01	0.239640E+01	0.353600E+00
21.400	-0.229100E+00	0.321380E+01	0.192790E+01	0.241350E+01	0.382900E+00
21.600	-0.212600E+00	0.317990E+01	0.189920E+01	0.243130E+01	0.457400E+00
21.800	-0.197500E+00	0.314890E+01	0.186950E+01	0.244980E+01	0.725000E+00
22.000	-0.183700E+00	0.312040E+01	0.183870E+01	0.246940E+01	0.139670E+01
22.200	-0.171100E+00	0.309430E+01	0.180700E+01	0.249000E+01	0.149430E+01
22.400	-0.159600E+00	0.307040E+01	0.177420E+01	0.251170E+01	0.152850E+01
22.600	-0.149100E+00	0.304850E+01	0.174030E+01	0.253460E+01	0.155860E+01
22.800	-0.139500E+00	0.302840E+01	0.170530E+01	0.255870E+01	0.158680E+01
23.000	-0.130600E+00	0.300990E+01	0.166920E+01	0.258410E+01	0.161270E+01
23.200	-0.122500E+00	0.299290E+01	0.163180E+01	0.261090E+01	0.163600E+01
23.400	-0.115100E+00	0.297740E+01	0.159320E+01	0.263890E+01	0.165650E+01
23.600	-0.108300E+00	0.296310E+01	0.155330E+01	0.266830E+01	0.167410E+01
23.800	-0.102000E+00	0.294990E+01	0.151200E+01	0.269890E+01	0.168870E+01
24.000	-0.962000E-01	0.293780E+01	0.146940E+01	0.273060E+01	0.170010E+01
24.200	-0.909000E-01	0.292660E+01	0.142540E+01	0.276350E+01	0.170820E+01
24.400	-0.860000E-01	0.291640E+01	0.138020E+01	0.279730E+01	0.171310E+01
24.800	-0.773000E-01	0.289810E+01	0.128610E+01	0.286720E+01	0.171330E+01
25.000	-0.735000E-01	0.289010E+01	0.123760E+01	0.290290E+01	0.170860E+01
25.400	-0.666000E-01	0.287570E+01	0.113850E+01	0.297500E+01	0.168980E+01
25.600	-0.635000E-01	0.286930E+01	0.108840E+01	0.301110E+01	0.167590E+01
25.800	-0.607000E-01	0.286340E+01	0.103830E+01	0.304690E+01	0.165920E+01
26.000	-0.580000E-01	0.285790E+01	0.988500E+00	0.308230E+01	0.163970E+01
26.400	-0.532000E-01	0.284810E+01	0.890700E+00	0.315130E+01	0.159300E+01
26.600	-0.511000E-01	0.284370E+01	0.843200E+00	0.318460E+01	0.156620E+01
26.800	-0.491000E-01	0.283960E+01	0.797000E+00	0.321710E+01	0.153730E+01
27.000	-0.472000E-01	0.283580E+01	0.752400E+00	0.324880E+01	0.150590E+01
27.200	-0.454000E-01	0.283220E+01	0.709200E+00	0.327930E+01	0.147350E+01
27.400	-0.438000E-01	0.282890E+01	0.667800E+00	0.330860E+01	0.143970E+01
27.600	-0.422000E-01	0.282570E+01	0.628100E+00	0.333700E+01	0.140470E+01
28.000	-0.394000E-01	0.282010E+01	0.554500E+00	0.339020E+01	0.133190E+01
28.200	-0.381000E-01	0.281750E+01	0.520600E+00	0.341510E+01	0.129470E+01
28.600	-0.358000E-01	0.281280E+01	0.458300E+00	0.346130E+01	0.122000E+01
28.800	-0.347000E-01	0.281060E+01	0.429900E+00	0.348280E+01	0.118280E+01
30.200	-0.285000E-01	0.279850E+01	0.275300E+00	0.360230E+01	0.943400E+00
30.400	-0.278000E-01	0.279720E+01	0.258600E+00	0.361550E+01	0.913500E+00
31.400	-0.246000E-01	0.279110E+01	0.190700E+00	0.366890E+01	0.783400E+00
31.600	-0.241000E-01	0.279010E+01	0.179800E+00	0.367740E+01	0.761300E+00
31.800	-0.236000E-01	0.278910E+01	0.169500E+00	0.368520E+01	0.740300E+00

The following tables display the transition dipole moments between the four lowest Σ^+ states with the lowest seven Π states of **NaK**, for singlet (Tables 1 to 4) and triplet (Tables 5 to 8) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr =0.0529177 nm, and 1 a.u. =2.54158059 Debye. All states are identified with their number with increasing energy.

Table 1: (1)¹ Σ^+ -(1-7)¹ Π transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	0.314890E+01	-0.272000E-01	-0.506000E-01	0.198400E+00	0.237000E+00	0.260000E-02	-0.460000E-01
3.200	0.314850E+01	0.900000E-03	0.170000E-02	0.192100E+00	0.270200E+00	0.600000E-02	-0.544000E-01
3.400	0.314580E+01	0.928000E-01	0.232000E-01	0.187000E+00	0.287600E+00	0.103000E-01	-0.553000E-01
3.800	0.312710E+01	0.351500E+00	0.267000E-01	0.187400E+00	0.283900E+00	0.193000E-01	-0.351000E-01
4.000	0.311120E+01	0.477600E+00	0.896000E-01	0.187800E+00	0.264600E+00	0.212000E-01	-0.158000E-01
4.200	0.309320E+01	0.587400E+00	0.167200E+00	0.186700E+00	0.234400E+00	0.187000E-01	0.790000E-02
4.400	0.307510E+01	0.678300E+00	0.250100E+00	0.186100E+00	0.195300E+00	0.960000E-02	0.340000E-01
4.600	0.305800E+01	0.751100E+00	0.331000E+00	0.189100E+00	0.150300E+00	-0.750000E-02	0.607000E-01
4.800	0.304270E+01	0.809300E+00	0.404700E+00	0.197100E+00	0.103400E+00	-0.325000E-01	0.858000E-01
5.200	0.301860E+01	0.898700E+00	0.521400E+00	0.224100E+00	0.153000E-01	-0.960000E-01	0.127800E+00
5.400	0.300930E+01	0.938000E+00	0.564000E+00	0.239500E+00	-0.231000E-01	-0.127500E+00	0.145300E+00
5.600	0.300140E+01	0.977800E+00	0.597400E+00	0.255000E+00	-0.573000E-01	-0.155300E+00	0.161700E+00
5.800	0.299420E+01	0.102040E+01	0.622700E+00	0.270700E+00	-0.876000E-01	-0.177900E+00	0.178100E+00
6.000	0.298710E+01	0.106750E+01	0.640900E+00	0.287900E+00	-0.114000E+00	-0.194500E+00	0.195000E+00
6.200	0.297940E+01	0.112020E+01	0.652400E+00	0.307800E+00	-0.137200E+00	-0.205200E+00	0.212800E+00
6.400	0.297040E+01	0.117920E+01	0.657400E+00	0.332200E+00	-0.157400E+00	-0.210200E+00	0.231100E+00
6.600	0.295930E+01	0.124500E+01	0.655200E+00	0.362500E+00	-0.175100E+00	-0.210100E+00	0.249700E+00
6.800	0.294540E+01	0.131780E+01	0.644700E+00	0.399900E+00	-0.190600E+00	-0.205800E+00	0.267400E+00
7.000	0.292800E+01	0.139730E+01	0.624300E+00	0.444900E+00	-0.204300E+00	-0.198400E+00	0.283300E+00
7.200	0.290670E+01	0.148290E+01	0.592000E+00	0.496300E+00	-0.216100E+00	-0.188600E+00	0.296100E+00
7.400	0.288120E+01	0.157370E+01	0.548300E+00	0.550800E+00	-0.226500E+00	-0.178700E+00	0.306100E+00
7.600	0.285150E+01	0.166820E+01	0.495100E+00	0.603100E+00	-0.235200E+00	-0.168900E+00	0.312400E+00
7.800	0.281790E+01	0.176500E+01	0.437500E+00	0.648200E+00	-0.242400E+00	-0.159500E+00	0.314700E+00
8.000	0.278120E+01	0.186220E+01	0.380900E+00	0.683300E+00	-0.247700E+00	-0.150900E+00	0.313100E+00
8.200	0.274230E+01	0.195790E+01	0.329400E+00	0.708200E+00	-0.251100E+00	-0.143400E+00	0.307700E+00
8.400	0.270230E+01	0.205030E+01	0.284500E+00	0.724200E+00	-0.252300E+00	-0.136500E+00	0.298400E+00
8.600	0.266260E+01	0.213810E+01	0.246500E+00	0.732900E+00	-0.251200E+00	-0.130600E+00	0.285500E+00
8.800	0.262420E+01	0.222030E+01	0.214800E+00	0.735600E+00	-0.247700E+00	-0.125300E+00	0.269600E+00
9.000	0.258820E+01	0.229620E+01	0.188700E+00	0.733300E+00	-0.242000E+00	-0.120500E+00	0.251200E+00
9.200	0.255540E+01	0.236550E+01	0.167600E+00	0.726800E+00	-0.234000E+00	-0.116200E+00	0.231100E+00
9.400	0.252610E+01	0.242810E+01	0.150700E+00	0.716400E+00	-0.224200E+00	-0.112100E+00	0.210100E+00
9.600	0.250070E+01	0.248430E+01	0.137600E+00	0.702500E+00	-0.212900E+00	-0.108200E+00	0.188900E+00
9.800	0.247920E+01	0.253430E+01	0.128000E+00	0.685600E+00	-0.200500E+00	-0.104200E+00	0.168300E+00
10.000	0.246150E+01	0.257840E+01	0.121200E+00	0.666000E+00	-0.187700E+00	-0.100200E+00	0.148700E+00
10.200	0.244740E+01	0.261710E+01	0.116900E+00	0.644100E+00	-0.174800E+00	-0.959000E-01	0.130800E+00
10.400	0.243670E+01	0.265070E+01	0.114700E+00	0.620600E+00	-0.162200E+00	-0.914000E-01	0.114700E+00
10.600	0.242900E+01	0.267980E+01	0.114100E+00	0.595700E+00	-0.150400E+00	-0.867000E-01	0.100500E+00
10.800	0.242400E+01	0.270460E+01	0.114600E+00	0.570100E+00	-0.139600E+00	-0.819000E-01	0.885000E-01
11.000	0.242150E+01	0.272550E+01	0.115900E+00	0.544300E+00	-0.129900E+00	-0.770000E-01	0.785000E-01
11.200	0.242120E+01	0.274290E+01	0.117600E+00	0.518500E+00	-0.121400E+00	-0.721000E-01	0.704000E-01
11.400	0.242280E+01	0.275710E+01	0.119500E+00	0.493300E+00	-0.114100E+00	-0.672000E-01	0.641000E-01
11.600	0.242600E+01	0.276850E+01	0.121200E+00	0.468900E+00	-0.107900E+00	-0.624000E-01	0.597000E-01
11.800	0.243070E+01	0.277730E+01	0.122600E+00	0.445600E+00	-0.102600E+00	-0.577000E-01	0.563000E-01
12.000	0.243660E+01	0.278390E+01	0.123600E+00	0.423400E+00	-0.981000E-01	-0.531000E-01	0.540000E-01
12.200	0.244350E+01	0.278850E+01	0.124200E+00	0.402600E+00	-0.943000E-01	-0.486000E-01	0.527000E-01
12.400	0.245140E+01	0.279130E+01	0.124300E+00	0.383200E+00	-0.909000E-01	-0.441000E-01	0.521000E-01
12.600	0.246000E+01	0.279260E+01	0.123900E+00	0.365300E+00	-0.879000E-01	-0.397000E-01	0.522000E-01
12.800	0.246910E+01	0.279260E+01	0.123000E+00	0.348800E+00	-0.851000E-01	-0.354000E-01	0.523000E-01
13.000	0.247880E+01	0.279140E+01	0.121800E+00	0.333700E+00	-0.822000E-01	-0.312000E-01	0.521000E-01
13.200	0.248880E+01	0.278930E+01	0.120200E+00	0.319900E+00	-0.794000E-01	-0.271000E-01	0.511000E-01
13.400	0.249910E+01	0.278640E+01	0.118200E+00	0.307500E+00	-0.764000E-01	-0.231000E-01	0.476000E-01
13.600	0.250960E+01	0.278270E+01	0.116000E+00	0.296300E+00	-0.733000E-01	-0.193000E-01	0.390000E-01
13.800	0.252020E+01	0.277850E+01	0.113600E+00	0.286200E+00	-0.701000E-01	-0.157000E-01	0.266000E-01
14.000	0.253090E+01	0.277380E+01	0.110900E+00	0.277100E+00	-0.667000E-01	-0.123000E-01	0.169000E-01
14.200	0.254150E+01	0.276880E+01	0.108200E+00	0.269000E+00	-0.632000E-01	-0.920000E-02	0.106000E-01
14.400	0.255210E+01	0.276340E+01	0.105300E+00	0.261700E+00	-0.596000E-01	-0.640000E-02	0.660000E-02
14.600	0.256260E+01	0.275780E+01	0.102300E+00	0.255300E+00	-0.560000E-01	-0.400000E-02	0.370000E-02
14.800	0.257290E+01	0.275200E+01	0.993000E-01	0.249500E+00	-0.523000E-01	-0.190000E-02	0.170000E-02
15.000	0.258310E+01	0.274610E+01	0.962000E-01	0.244300E+00	-0.486000E-01	-0.100000E-03	-0.100000E-03
15.200	0.259300E+01	0.274020E+01	0.932000E-01	0.239700E+00	-0.449000E-01	-0.130000E-02	-0.100000E-02
15.400	0.260270E+01	0.273410E+01	0.901000E-01	0.235500E+00	-0.413000E-01	-0.230000E-02	-0.180000E-02
15.600	0.261230E+01	0.272810E+01	0.871000E-01	0.231800E+00	-0.378000E-01	-0.300000E-02	-0.230000E-02
15.800	0.262150E+01	0.272220E+01	0.841000E-01	0.228500E+00	-0.344000E-01	-0.330000E-02	-0.250000E-02
16.000	0.263050E+01	0.271620E+01	0.812000E-01	0.225500E+00	-0.311000E-01	-0.340000E-02	-0.250000E-02
16.200	0.263930E+01	0.271040E+01	0.783000E-01	0.222900E+00	-0.281000E-01	-0.330000E-02	-0.210000E-02
16.400	0.264770E+01	0.270460E+01	0.755000E-01	0.220500E+00	-0.252000E-01	-0.300000E-02	-0.150000E-02
16.600	0.265590E+01	0.269890E+01	0.728000E-01	0.218300E+00	-0.226000E-01	-0.270000E-02	-0.800000E-03

1								
2								
3	16.800	0.266390E+01	0.269340E+01	0.701000E-01	0.216400E+00	-0.202000E-01	-0.230000E-02	0.200000E-03
4	17.000	0.267160E+01	0.268790E+01	0.675000E-01	0.214700E+00	-0.179000E-01	-0.180000E-02	0.140000E-02
5	17.200	0.267900E+01	0.268260E+01	0.650000E-01	0.213100E+00	-0.158000E-01	-0.130000E-02	0.280000E-02
6	17.400	0.268620E+01	0.267740E+01	0.626000E-01	0.211700E+00	-0.140000E-01	-0.800000E-03	0.420000E-02
7	17.600	0.269310E+01	0.267240E+01	0.602000E-01	0.210400E+00	-0.123000E-01	-0.400000E-03	0.560000E-02
8	17.800	0.269970E+01	0.266750E+01	0.580000E-01	0.209200E+00	-0.107000E-01	0.100000E-03	0.710000E-02
9	18.000	0.270620E+01	0.266270E+01	0.558000E-01	0.208200E+00	-0.930000E-02	0.500000E-03	0.860000E-02
10	18.200	0.271240E+01	0.265810E+01	0.537000E-01	0.207200E+00	-0.800000E-02	0.800000E-03	0.100000E-01
11	18.400	0.271830E+01	0.265360E+01	0.517000E-01	0.206400E+00	-0.690000E-02	0.110000E-02	0.114000E-01
12	18.600	0.272410E+01	0.264930E+01	0.498000E-01	0.205600E+00	-0.590000E-02	0.140000E-02	0.128000E-01
13	18.800	0.272960E+01	0.264500E+01	0.479000E-01	0.204900E+00	-0.500000E-02	0.160000E-02	0.141000E-01
14	19.000	0.273500E+01	0.264090E+01	0.461000E-01	0.204200E+00	-0.410000E-02	0.190000E-02	0.154000E-01
15	19.200	0.274010E+01	0.263700E+01	0.444000E-01	0.203600E+00	-0.340000E-02	0.210000E-02	0.166000E-01
16	19.400	0.274500E+01	0.263320E+01	0.428000E-01	0.203100E+00	-0.270000E-02	0.220000E-02	0.178000E-01
17	19.600	0.274980E+01	0.262950E+01	0.412000E-01	0.202600E+00	-0.220000E-02	0.230000E-02	0.189000E-01
18	19.800	0.275440E+01	0.262590E+01	0.397000E-01	0.202100E+00	-0.170000E-02	0.240000E-02	0.201000E-01
19	20.000	0.275880E+01	0.262240E+01	0.382000E-01	0.201700E+00	-0.120000E-02	0.250000E-02	0.214000E-01
20	20.200	0.276310E+01	0.261900E+01	0.368000E-01	0.201300E+00	-0.800000E-03	0.250000E-02	0.228000E-01
21	20.400	0.276720E+01	0.261580E+01	0.355000E-01	0.200900E+00	-0.400000E-03	0.260000E-02	0.244000E-01
22	20.600	0.277110E+01	0.261270E+01	0.342000E-01	0.200600E+00	-0.100000E-03	0.260000E-02	0.262000E-01
23	20.800	0.277500E+01	0.260960E+01	0.330000E-01	0.200300E+00	0.200000E-03	0.260000E-02	0.285000E-01
24	21.200	0.278220E+01	0.260390E+01	0.307000E-01	0.199800E+00	0.600000E-03	0.260000E-02	0.348000E-01
25	21.400	0.278560E+01	0.260110E+01	0.297000E-01	0.199500E+00	0.800000E-03	0.260000E-02	0.391000E-01
26	21.600	0.278890E+01	0.259850E+01	0.287000E-01	0.199300E+00	0.100000E-02	0.250000E-02	0.440000E-01
27	22.000	0.279520E+01	0.259340E+01	0.267000E-01	0.198900E+00	0.120000E-02	0.250000E-02	0.538000E-01
28	22.200	0.279810E+01	0.259100E+01	0.258000E-01	0.198700E+00	0.130000E-02	0.240000E-02	0.573000E-01
29	22.400	0.280100E+01	0.258870E+01	0.250000E-01	0.198600E+00	0.140000E-02	0.240000E-02	0.597000E-01
30	23.600	0.281620E+01	0.257610E+01	0.204000E-01	0.197700E+00	0.170000E-02	0.210000E-02	0.639000E-01
31	24.000	0.282070E+01	0.257250E+01	0.192000E-01	0.197500E+00	0.170000E-02	0.200000E-02	0.643000E-01
32	24.200	0.282280E+01	0.257070E+01	0.185000E-01	0.197400E+00	0.170000E-02	0.190000E-02	0.645000E-01
33	24.400	0.282480E+01	0.256890E+01	0.180000E-01	0.197300E+00	0.170000E-02	0.190000E-02	0.646000E-01
34	24.800	0.282870E+01	0.256580E+01	0.169000E-01	0.197200E+00	0.170000E-02	0.180000E-02	0.649000E-01
35	25.000	0.283060E+01	0.256390E+01	0.163000E-01	0.197100E+00	0.170000E-02	0.180000E-02	0.650000E-01
36	25.400	0.283410E+01	0.256120E+01	0.154000E-01	0.196900E+00	0.170000E-02	0.170000E-02	0.652000E-01
37	25.600	0.283580E+01	0.255940E+01	0.149000E-01	0.196900E+00	0.170000E-02	0.170000E-02	0.653000E-01
38	25.800	0.283740E+01	0.255820E+01	0.145000E-01	0.196800E+00	0.170000E-02	0.170000E-02	0.654000E-01
39	26.000	0.283900E+01	0.255720E+01	0.140000E-01	0.196700E+00	0.170000E-02	0.160000E-02	0.654000E-01
40	26.400	0.284200E+01	0.255460E+01	0.132000E-01	0.196600E+00	0.160000E-02	0.160000E-02	0.656000E-01
41	26.600	0.284350E+01	0.255350E+01	0.128000E-01	0.196500E+00	0.160000E-02	0.150000E-02	0.657000E-01
42	26.800	0.284490E+01	0.255230E+01	0.124000E-01	0.196500E+00	0.160000E-02	0.150000E-02	0.658000E-01
43	27.000	0.284630E+01	0.255110E+01	0.121000E-01	0.196400E+00	0.160000E-02	0.150000E-02	0.658000E-01
44	27.200	0.284760E+01	0.255000E+01	0.117000E-01	0.196400E+00	0.160000E-02	0.150000E-02	0.659000E-01
45	27.400	0.284890E+01	0.254890E+01	0.114000E-01	0.196300E+00	0.150000E-02	0.150000E-02	0.660000E-01
46	27.600	0.285010E+01	0.254790E+01	0.111000E-01	0.196300E+00	0.150000E-02	0.140000E-02	0.660000E-01
47	28.000	0.285250E+01	0.254590E+01	0.105000E-01	0.196200E+00	0.150000E-02	0.140000E-02	0.662000E-01
48	28.200	0.285370E+01	0.254480E+01	0.102000E-01	0.196100E+00	0.150000E-02	0.140000E-02	0.662000E-01
49	28.600	0.285590E+01	0.254300E+01	0.960000E-02	0.196100E+00	0.140000E-02	0.140000E-02	0.664000E-01
50	28.800	0.285690E+01	0.254210E+01	0.930000E-02	0.196000E+00	0.140000E-02	0.130000E-02	0.664000E-01
51	29.400	0.285990E+01	0.253950E+01	0.860000E-02	0.195900E+00	0.140000E-02	0.130000E-02	0.666000E-01
52	30.200	0.286350E+01	0.253640E+01	0.770000E-02	0.195800E+00	0.130000E-02	0.130000E-02	0.669000E-01
53	30.400	0.286360E+01	0.253490E+01	0.750000E-02	0.195700E+00	0.120000E-02	0.130000E-02	0.669000E-01
54	31.400	0.286820E+01	0.253230E+01	0.660000E-02	0.195600E+00	0.120000E-02	0.130000E-02	0.672000E-01
55	31.600	0.286910E+01	0.253170E+01	0.640000E-02	0.195600E+00	0.110000E-02	0.130000E-02	0.673000E-01
56	31.800	0.286970E+01	0.253110E+01	0.630000E-02	0.195600E+00	0.110000E-02	0.130000E-02	0.673000E-01

Table 2: $(2)^1\Sigma^+ - (1-7)^1\Pi$ transitions

R	2-1	2-2	2-3	2-4	2-5	2-6	2-7
3.000	0.390200E+00	-0.728700E+00	0.537500E+00	-0.171840E+01	-0.175770E+01	-0.500400E+00	0.488700E+00
3.200	0.423500E+00	-0.760800E+00	0.745800E+00	-0.192860E+01	-0.149600E+01	-0.506100E+00	0.563800E+00
3.400	0.461200E+00	-0.792600E+00	0.847500E+00	-0.208420E+01	-0.127030E+01	-0.518000E+00	0.631300E+00
3.800	0.547500E+00	-0.892000E+00	0.837500E+00	-0.232150E+01	-0.859200E+00	-0.568500E+00	0.767700E+00
4.000	0.594100E+00	-0.966700E+00	0.763800E+00	-0.239550E+01	-0.663000E+00	-0.609100E+00	0.845300E+00
4.200	0.641200E+00	-0.105540E+01	0.675300E+00	-0.242490E+01	-0.482100E+00	-0.655200E+00	0.930900E+00
4.400	0.686800E+00	-0.115210E+01	0.595100E+00	-0.240550E+01	-0.332600E+00	-0.698800E+00	0.102380E+01
4.600	0.729700E+00	-0.124970E+01	0.537900E+00	-0.234430E+01	-0.227800E+00	-0.731200E+00	0.111650E+01
4.800	0.768900E+00	-0.134140E+01	0.507000E+00	-0.225590E+01	-0.172600E+00	-0.747300E+00	0.120220E+01
5.200	0.836200E+00	-0.148840E+01	0.509400E+00	-0.205790E+01	-0.177000E+00	-0.745600E+00	0.131800E+01
5.400	0.865200E+00	-0.153880E+01	0.532200E+00	-0.196920E+01	-0.211200E+00	-0.744700E+00	0.134110E+01
5.600	0.892100E+00	-0.157300E+01	0.565000E+00	-0.189420E+01	-0.253500E+00	-0.753000E+00	0.134450E+01
5.800	0.917300E+00	-0.159190E+01	0.606600E+00	-0.183440E+01	-0.297800E+00	-0.773500E+00	0.133240E+01
6.000	0.941300E+00	-0.159650E+01	0.657600E+00	-0.178910E+01	-0.341100E+00	-0.806300E+00	0.130860E+01
6.200	0.964300E+00	-0.158790E+01	0.719700E+00	-0.175580E+01	-0.381900E+00	-0.849900E+00	0.127490E+01
6.400	0.986200E+00	-0.156750E+01	0.795700E+00	-0.173000E+01	-0.420300E+00	-0.901300E+00	0.123350E+01
6.600	0.100700E+01	-0.153630E+01	0.888700E+00	-0.170720E+01	-0.456500E+00	-0.956600E+00	0.118630E+01
6.800	0.102630E+01	-0.149540E+01	0.100210E+01	-0.168020E+01	-0.491300E+00	-0.101140E+01	0.113560E+01
7.000	0.104360E+01	-0.144610E+01	0.113820E+01	-0.164120E+01	-0.525300E+00	-0.106150E+01	0.108460E+01
7.200	0.105820E+01	-0.138890E+01	0.129490E+01	-0.158200E+01	-0.558500E+00	-0.110110E+01	0.103300E+01
7.400	0.106910E+01	-0.132630E+01	0.146710E+01	-0.149920E+01	-0.592300E+00	-0.113500E+01	0.990700E+00
7.600	0.107560E+01	-0.125900E+01	0.164130E+01	-0.139520E+01	-0.626600E+00	-0.115990E+01	0.955300E+00
7.800	0.107680E+01	-0.118860E+01	0.180440E+01	-0.128030E+01	-0.661400E+00	-0.117630E+01	0.927100E+00
8.000	0.107220E+01	-0.111670E+01	0.194780E+01	-0.116820E+01	-0.697200E+00	-0.118540E+01	0.906000E+00
8.200	0.106110E+01	-0.104500E+01	0.206990E+01	-0.106940E+01	-0.733900E+00	-0.118950E+01	0.891800E+00
8.400	0.104360E+01	-0.973900E+00	0.217210E+01	-0.989200E+00	-0.771200E+00	-0.118710E+01	0.881100E+00
8.600	0.101980E+01	-0.905300E+00	0.225860E+01	-0.928000E+00	-0.809400E+00	-0.118230E+01	0.875000E+00
8.800	0.990200E+00	-0.839500E+00	0.233190E+01	-0.885100E+00	-0.848000E+00	-0.117230E+01	0.870200E+00
9.000	0.953800E+00	-0.777000E+00	0.239470E+01	-0.857800E+00	-0.886800E+00	-0.115870E+01	0.865900E+00
9.200	0.916100E+00	-0.718200E+00	0.244860E+01	-0.843900E+00	-0.925700E+00	-0.114350E+01	0.863000E+00
9.400	0.873400E+00	-0.662900E+00	0.249490E+01	-0.841000E+00	-0.964300E+00	-0.112580E+01	0.859300E+00
9.600	0.828100E+00	-0.610900E+00	0.253440E+01	-0.847100E+00	-0.100250E+01	-0.110660E+01	0.855100E+00
9.800	0.781200E+00	-0.562000E+00	0.256770E+01	-0.860300E+00	-0.104030E+01	-0.108750E+01	0.851000E+00
10.000	0.733300E+00	-0.516000E+00	0.259550E+01	-0.878600E+00	-0.107770E+01	-0.106860E+01	0.845900E+00
10.200	0.685200E+00	-0.472500E+00	0.261820E+01	-0.900400E+00	-0.111460E+01	-0.105050E+01	0.839500E+00
10.400	0.637600E+00	-0.431300E+00	0.263630E+01	-0.924000E+00	-0.115120E+01	-0.103380E+01	0.831400E+00
10.600	0.590900E+00	-0.392300E+00	0.265050E+01	-0.947800E+00	-0.118780E+01	-0.101940E+01	0.821800E+00
10.800	0.545600E+00	-0.355400E+00	0.266120E+01	-0.970300E+00	-0.122440E+01	-0.100700E+01	0.809300E+00
11.000	0.502000E+00	-0.320500E+00	0.266910E+01	-0.990200E+00	-0.126100E+01	-0.997100E+00	0.793700E+00
11.200	0.460400E+00	-0.287600E+00	0.267470E+01	-0.100630E+01	-0.129790E+01	-0.989600E+00	0.775000E+00
11.400	0.420900E+00	-0.256700E+00	0.267880E+01	-0.101750E+01	-0.133470E+01	-0.984500E+00	0.752800E+00
11.600	0.383600E+00	-0.227700E+00	0.268190E+01	-0.102300E+01	-0.137110E+01	-0.981400E+00	0.725900E+00
11.800	0.348600E+00	-0.200700E+00	0.268440E+01	-0.102240E+01	-0.140700E+01	-0.980500E+00	0.696900E+00
12.000	0.316000E+00	-0.175600E+00	0.268700E+01	-0.101540E+01	-0.144170E+01	-0.981200E+00	0.664700E+00
12.200	0.285700E+00	-0.152300E+00	0.268990E+01	-0.100200E+01	-0.147430E+01	-0.983300E+00	0.629300E+00
12.400	0.257600E+00	-0.130700E+00	0.269360E+01	-0.982600E+00	-0.150410E+01	-0.986700E+00	0.590500E+00
12.600	0.231800E+00	-0.110800E+00	0.269820E+01	-0.957400E+00	-0.152960E+01	-0.990700E+00	0.546600E+00
12.800	0.208100E+00	-0.926000E-01	0.270390E+01	-0.927500E+00	-0.155080E+01	-0.996000E+00	0.499000E+00
13.000	0.186500E+00	-0.758000E-01	0.271080E+01	-0.893500E+00	-0.156620E+01	-0.100220E+01	0.442100E+00
13.200	0.166800E+00	-0.605000E-01	0.271900E+01	-0.856100E+00	-0.157500E+01	-0.100910E+01	0.365300E+00
13.400	0.149000E+00	-0.466000E-01	0.272840E+01	-0.816300E+00	-0.157640E+01	-0.101650E+01	0.244600E+00
13.600	0.133000E+00	-0.339000E-01	0.273890E+01	-0.774700E+00	-0.156990E+01	-0.102430E+01	-0.505000E-01
13.800	0.118600E+00	-0.225000E-01	0.275030E+01	-0.732000E+00	-0.155510E+01	-0.103190E+01	-0.170300E+00
14.000	0.105800E+00	-0.121000E-01	0.276260E+01	-0.688700E+00	-0.153140E+01	-0.103860E+01	-0.338800E+00
14.200	0.944000E-01	-0.290000E-02	0.277540E+01	-0.645200E+00	-0.149880E+01	-0.104360E+01	-0.462000E+00
14.400	0.844000E-01	0.540000E-02	0.278870E+01	-0.602000E+00	-0.145760E+01	-0.104570E+01	-0.563600E+00
14.600	0.755000E-01	0.127000E-01	0.280210E+01	-0.559400E+00	-0.140800E+01	-0.104360E+01	-0.655500E+00
14.800	0.679000E-01	0.191000E-01	0.281540E+01	-0.517600E+00	-0.135070E+01	-0.103600E+01	-0.742800E+00
15.000	0.612000E-01	0.247000E-01	0.282860E+01	-0.477000E+00	-0.128660E+01	-0.102130E+01	-0.827200E+00
15.200	0.554000E-01	0.295000E-01	0.284130E+01	-0.437600E+00	-0.121690E+01	-0.997500E+00	-0.908200E+00
15.400	0.504000E-01	0.336000E-01	0.285350E+01	-0.399900E+00	-0.114320E+01	-0.966100E+00	-0.985600E+00
15.600	0.462000E-01	0.370000E-01	0.286510E+01	-0.363700E+00	-0.106680E+01	-0.925800E+00	-0.105790E+01
15.800	0.425000E-01	0.398000E-01	0.287590E+01	-0.329300E+00	-0.989200E+00	-0.877200E+00	-0.112310E+01
16.000	0.394000E-01	0.421000E-01	0.288600E+01	-0.296800E+00	-0.911900E+00	-0.821600E+00	-0.118010E+01
16.200	0.367000E-01	0.438000E-01	0.289530E+01	-0.266200E+00	-0.836000E+00	-0.761000E+00	-0.122770E+01
16.400	0.345000E-01	0.452000E-01	0.290380E+01	-0.237600E+00	-0.762800E+00	-0.697200E+00	-0.126530E+01
16.600	0.325000E-01	0.461000E-01	0.291160E+01	-0.211100E+00	-0.693300E+00	-0.633600E+00	-0.129460E+01
16.800	0.308000E-01	0.467000E-01	0.291880E+01	-0.186500E+00	-0.627100E+00	-0.569100E+00	-0.131240E+01
17.000	0.293000E-01	0.470000E-01	0.292530E+01	-0.163800E+00	-0.564900E+00	-0.506800E+00	-0.132110E+01
17.200	0.280000E-01	0.470000E-01	0.293130E+01	-0.142900E+00	-0.507000E+00	-0.447600E+00	-0.132180E+01
17.400	0.269000E-01	0.469000E-01	0.293680E+01	-0.123900E+00	-0.453400E+00	-0.392100E+00	-0.131560E+01
17.600	0.258000E-01	0.465000E-01	0.294190E+01	-0.106600E+00	-0.403900E+00	-0.340700E+00	-0.130370E+01
17.800	0.249000E-01	0.460000E-01	0.294660E+01	-0.909000E-01	-0.358500E+00	-0.293700E+00	-0.128720E+01
18.000	0.240000E-01	0.453000E-01	0.295100E+01	-0.768000E-01	-0.316900E+00	-0.250800E+00	-0.126710E+01
18.200	0.231000E-01	0.446000E-01	0.295510E+01	-0.640000E-01	-0.278900E+00	-0.212000E+00	-0.124420E+01
18.400	0.224000E-01	0.437000E-01	0.295900E+01	-0.526000E-01	-0.244200E+00	-0.177100E+00	-0.121950E+01

18.600	0.216000E-01	0.428000E-01	0.296260E+01	-0.423000E-01	-0.212700E+00	-0.145600E+00	-0.119350E+01
18.800	0.209000E-01	0.418000E-01	0.296620E+01	-0.332000E-01	-0.184100E+00	-0.117500E+00	-0.116680E+01
19.000	0.202000E-01	0.408000E-01	0.296960E+01	-0.251000E-01	-0.158000E+00	-0.920000E-01	-0.113790E+01
19.200	0.196000E-01	0.398000E-01	0.297280E+01	-0.179000E-01	-0.134500E+00	-0.695000E-01	-0.111100E+01
19.400	0.189000E-01	0.388000E-01	0.297600E+01	-0.116000E-01	-0.113300E+00	-0.495000E-01	-0.108420E+01
19.600	0.183000E-01	0.377000E-01	0.297900E+01	-0.600000E-02	-0.941000E-01	-0.317000E-01	-0.105770E+01
19.800	0.177000E-01	0.367000E-01	0.298200E+01	-0.120000E-02	-0.767000E-01	-0.159000E-01	-0.103090E+01
20.000	0.171000E-01	0.357000E-01	0.298490E+01	0.310000E-02	-0.611000E-01	-0.180000E-02	-0.100470E+01
20.200	0.165000E-01	0.346000E-01	0.298780E+01	0.680000E-02	-0.471000E-01	0.106000E-01	-0.978400E+00
20.400	0.159000E-01	0.336000E-01	0.299060E+01	0.100000E-01	-0.345000E-01	0.217000E-01	-0.951500E+00
20.600	0.154000E-01	0.326000E-01	0.299330E+01	0.127000E-01	-0.231000E-01	0.316000E-01	-0.923400E+00
20.800	0.148000E-01	0.316000E-01	0.299590E+01	0.150000E-01	-0.130000E-01	0.403000E-01	-0.893000E+00
21.200	0.137000E-01	0.297000E-01	0.300100E+01	0.186000E-01	-0.430000E-02	0.548000E-01	-0.817600E+00
21.400	0.132000E-01	0.288000E-01	0.300350E+01	0.200000E-01	0.115000E-01	0.607000E-01	-0.766000E+00
21.600	0.127000E-01	0.279000E-01	0.300590E+01	0.211000E-01	0.180000E-01	0.660000E-01	-0.699800E+00
22.000	0.117000E-01	0.262000E-01	0.301060E+01	0.227000E-01	0.289000E-01	0.745000E-01	-0.527400E+00
22.200	0.112000E-01	0.253000E-01	0.301280E+01	0.233000E-01	0.334000E-01	0.779000E-01	-0.439400E+00
22.400	0.108000E-01	0.245000E-01	0.301500E+01	0.237000E-01	0.373000E-01	0.809000E-01	-0.363400E+00
23.600	0.820000E-02	0.203000E-01	0.302670E+01	0.238000E-01	0.526000E-01	0.907000E-01	-0.142300E+00
24.000	0.750000E-02	0.191000E-01	0.303020E+01	0.232000E-01	0.553000E-01	0.919000E-01	-0.112400E+00
24.200	0.710000E-02	0.185000E-01	0.303180E+01	0.229000E-01	0.563000E-01	0.921000E-01	-0.100800E+00
24.400	0.680000E-02	0.179000E-01	0.303340E+01	0.226000E-01	0.572000E-01	0.923000E-01	-0.909000E-01
24.800	0.610000E-02	0.168000E-01	0.303640E+01	0.218000E-01	0.585000E-01	0.920000E-01	-0.746000E-01
25.000	0.580000E-02	0.163000E-01	0.303780E+01	0.214000E-01	0.590000E-01	0.917000E-01	-0.679000E-01
25.400	0.520000E-02	0.154000E-01	0.304050E+01	0.205000E-01	0.596000E-01	0.908000E-01	-0.565000E-01
25.600	0.490000E-02	0.149000E-01	0.304180E+01	0.201000E-01	0.597000E-01	0.901000E-01	-0.517000E-01
25.800	0.470000E-02	0.145000E-01	0.304300E+01	0.196000E-01	0.597000E-01	0.893000E-01	-0.474000E-01
26.000	0.440000E-02	0.140000E-01	0.304420E+01	0.191000E-01	0.597000E-01	0.885000E-01	-0.434000E-01
26.400	0.400000E-02	0.132000E-01	0.304650E+01	0.182000E-01	0.596000E-01	0.866000E-01	-0.365000E-01
26.600	0.370000E-02	0.128000E-01	0.304760E+01	0.178000E-01	0.594000E-01	0.856000E-01	-0.334000E-01
26.800	0.350000E-02	0.125000E-01	0.304870E+01	0.173000E-01	0.592000E-01	0.845000E-01	-0.306000E-01
27.000	0.330000E-02	0.121000E-01	0.304970E+01	0.168000E-01	0.590000E-01	0.833000E-01	-0.279000E-01
27.200	0.310000E-02	0.118000E-01	0.305070E+01	0.164000E-01	0.587000E-01	0.820000E-01	-0.254000E-01
27.400	0.300000E-02	0.114000E-01	0.305160E+01	0.159000E-01	0.585000E-01	0.809000E-01	-0.231000E-01
27.600	0.280000E-02	0.111000E-01	0.305260E+01	0.155000E-01	0.582000E-01	0.796000E-01	-0.209000E-01
28.000	0.250000E-02	0.105000E-01	0.305430E+01	0.147000E-01	0.576000E-01	0.770000E-01	-0.170000E-01
28.200	0.230000E-02	0.102000E-01	0.305520E+01	0.142000E-01	0.573000E-01	0.757000E-01	-0.151000E-01
28.600	0.200000E-02	0.970000E-02	0.305680E+01	0.134000E-01	0.567000E-01	0.729000E-01	-0.118000E-01
28.800	0.190000E-02	0.940000E-02	0.305760E+01	0.130000E-01	0.564000E-01	0.715000E-01	-0.102000E-01
29.400	0.150000E-02	0.870000E-02	0.305990E+01	0.119000E-01	0.556000E-01	0.672000E-01	-0.600000E-02
30.200	0.110000E-02	0.780000E-02	0.306260E+01	0.105000E-01	0.545000E-01	0.613000E-01	-0.130000E-02
30.400	0.110000E-02	0.760000E-02	0.306330E+01	0.102000E-01	0.542000E-01	0.598000E-01	0.200000E-03
31.400	0.700000E-03	0.670000E-02	0.306630E+01	0.870000E-02	0.531000E-01	0.524000E-01	0.420000E-02
31.600	0.600000E-03	0.650000E-02	0.306680E+01	0.840000E-02	0.529000E-01	0.509000E-01	0.500000E-02
31.800	0.500000E-03	0.630000E-02	0.306740E+01	0.820000E-02	0.527000E-01	0.495000E-01	0.570000E-02

Table 3: $(3)^1\Sigma^+-(1-7)^1\Pi$ transitions

R	3-1	3-2	3-3	3-4	3-5	3-6	3-7
3.000	0.130300E+00	0.109900E+00	-0.328500E+00	0.685000E+00	-0.659600E+00	-0.125920E+01	0.541600E+00
3.200	0.992000E-01	0.118500E+00	-0.285600E+00	0.522000E+00	-0.732300E+00	-0.132160E+01	0.523900E+00
3.400	0.730000E-01	0.128600E+00	-0.245600E+00	0.422800E+00	-0.766600E+00	-0.139490E+01	0.469100E+00
3.800	0.329000E-01	0.155100E+00	-0.242600E+00	0.346000E+00	-0.815200E+00	-0.153080E+01	0.299000E+00
4.000	0.140000E-01	0.168800E+00	-0.281600E+00	0.355400E+00	-0.857700E+00	-0.156900E+01	0.209300E+00
4.200	-0.810000E-02	0.181100E+00	-0.341000E+00	0.389800E+00	-0.924900E+00	-0.157490E+01	0.124200E+00
4.400	-0.348000E-01	0.191700E+00	-0.413200E+00	0.441900E+00	-0.101800E+01	-0.154340E+01	0.469000E-01
4.600	-0.645000E-01	0.201000E+00	-0.489300E+00	0.504300E+00	-0.112920E+01	-0.147460E+01	-0.205000E-01
4.800	-0.934000E-01	0.208900E+00	-0.560400E+00	0.571500E+00	-0.124380E+01	-0.137810E+01	-0.727000E-01
5.200	-0.133600E+00	0.219600E+00	-0.661500E+00	0.712400E+00	-0.143090E+01	-0.115970E+01	-0.121600E+00
5.400	-0.139600E+00	0.221700E+00	-0.686700E+00	0.783900E+00	-0.149240E+01	0.106280E+01	-0.121300E+00
5.600	-0.135200E+00	0.221500E+00	-0.695500E+00	0.853100E+00	-0.153360E+01	0.984200E+00	-0.109400E+00
5.800	-0.120800E+00	0.219100E+00	-0.690800E+00	0.916600E+00	-0.155850E+01	0.926100E+00	-0.896000E-01
6.000	-0.975000E-01	0.214400E+00	-0.676100E+00	0.971500E+00	-0.157170E+01	0.887200E+00	-0.636000E-01
6.200	-0.667000E-01	0.207600E+00	-0.655200E+00	0.101580E+01	-0.157680E+01	0.866300E+00	-0.307000E-01
6.400	-0.301000E-01	0.198700E+00	-0.632200E+00	0.104840E+01	-0.157690E+01	0.859900E+00	0.940000E-02
6.600	0.110000E-01	0.187600E+00	-0.611100E+00	0.106910E+01	-0.157380E+01	0.864500E+00	0.570000E-01
6.800	0.549000E-01	0.174300E+00	-0.595700E+00	0.107850E+01	-0.156860E+01	0.876900E+00	0.112200E+00
7.000	0.100200E+00	0.158700E+00	-0.589100E+00	0.107760E+01	-0.156170E+01	0.894000E+00	0.174300E+00
7.200	0.145500E+00	0.141300E+00	-0.593200E+00	0.106920E+01	-0.155300E+01	0.909000E+00	0.241700E+00
7.400	0.190000E+00	0.121200E+00	-0.604400E+00	0.105430E+01	-0.154230E+01	0.929900E+00	0.314700E+00
7.600	0.232400E+00	0.989000E-01	-0.618200E+00	0.103780E+01	-0.152950E+01	0.950700E+00	0.392700E+00
7.800	0.272100E+00	0.753000E-01	-0.629200E+00	0.102660E+01	-0.151430E+01	0.970500E+00	0.473800E+00
8.000	0.308100E+00	0.506000E-01	-0.632400E+00	0.102430E+01	-0.149660E+01	0.989100E+00	0.557800E+00
8.200	0.340500E+00	0.251000E-01	-0.626700E+00	0.103220E+01	-0.147740E+01	0.100820E+01	0.643800E+00
8.400	0.368100E+00	0.100000E-03	-0.612500E+00	0.105040E+01	-0.145530E+01	0.102470E+01	0.730200E+00
8.600	0.391400E+00	-0.241000E-01	-0.592100E+00	0.107610E+01	-0.143180E+01	0.104270E+01	0.817400E+00
8.800	0.410200E+00	-0.466000E-01	-0.567400E+00	0.110720E+01	-0.140620E+01	0.105910E+01	0.901000E+00
9.000	0.424800E+00	-0.671000E-01	-0.540200E+00	0.114120E+01	-0.137900E+01	0.107570E+01	0.980900E+00
9.200	0.435500E+00	-0.851000E-01	-0.511800E+00	0.117600E+01	-0.135080E+01	0.109500E+01	0.105600E+01
9.400	0.442600E+00	-0.100500E+00	-0.483100E+00	0.121030E+01	-0.132140E+01	0.111530E+01	0.112480E+01
9.600	0.446500E+00	-0.113000E+00	-0.454700E+00	0.124280E+01	-0.129060E+01	0.113750E+01	0.118650E+01
9.800	0.447700E+00	-0.122900E+00	-0.427000E+00	0.127270E+01	-0.125850E+01	0.116320E+01	0.124310E+01
10.000	0.446500E+00	-0.130300E+00	-0.400200E+00	0.129950E+01	-0.122430E+01	0.119080E+01	0.129350E+01
10.200	0.443200E+00	-0.135300E+00	-0.374400E+00	0.132310E+01	-0.118760E+01	0.121950E+01	0.134070E+01
10.400	0.438200E+00	-0.138200E+00	-0.349500E+00	0.134330E+01	-0.114750E+01	0.124780E+01	0.138400E+01
10.600	0.431900E+00	-0.139400E+00	-0.325700E+00	0.136030E+01	-0.110340E+01	0.127590E+01	0.142820E+01
10.800	0.424500E+00	-0.139100E+00	-0.302800E+00	0.137400E+01	-0.105440E+01	0.130030E+01	0.146980E+01
11.000	0.416300E+00	-0.137600E+00	-0.280800E+00	0.138480E+01	-0.100030E+01	0.132030E+01	0.151090E+01
11.200	0.407500E+00	-0.135200E+00	-0.259600E+00	0.139270E+01	-0.940600E+00	0.133420E+01	0.155180E+01
11.400	0.398300E+00	-0.132100E+00	-0.239300E+00	0.139800E+01	-0.875400E+00	0.134130E+01	0.159240E+01
11.600	0.388900E+00	-0.128400E+00	-0.219700E+00	0.140080E+01	-0.805200E+00	0.134060E+01	0.163050E+01
11.800	0.379500E+00	-0.124300E+00	-0.200900E+00	0.140150E+01	-0.730000E+00	0.133130E+01	0.167060E+01
12.000	0.370300E+00	-0.120000E+00	-0.182700E+00	0.140030E+01	-0.650500E+00	0.131280E+01	0.170860E+01
12.200	0.361200E+00	-0.115600E+00	-0.165000E+00	0.139730E+01	-0.567300E+00	0.128460E+01	0.174270E+01
12.400	0.352400E+00	-0.111000E+00	-0.148000E+00	0.139280E+01	-0.481200E+00	0.124700E+01	0.177090E+01
12.600	0.344100E+00	-0.106300E+00	-0.131400E+00	0.138710E+01	-0.393400E+00	0.120060E+01	0.178900E+01
12.800	0.336200E+00	-0.101700E+00	-0.115400E+00	0.138110E+01	-0.303400E+00	0.114560E+01	0.180110E+01
13.000	0.328800E+00	-0.971000E-01	-0.100000E+00	0.137490E+01	-0.212100E+00	0.108290E+01	0.180600E+01
13.200	0.321900E+00	-0.925000E-01	-0.856000E-01	0.136890E+01	-0.119900E+00	0.101360E+01	0.180860E+01
13.400	0.315600E+00	-0.878000E-01	-0.724000E-01	0.136330E+01	-0.271000E-01	0.938500E+00	0.181180E+01
13.600	0.309800E+00	-0.831000E-01	-0.608000E-01	0.135810E+01	0.657000E-01	0.858400E+00	0.178790E+01
13.800	0.304500E+00	-0.782000E-01	-0.517000E-01	0.135300E+01	0.158000E+00	0.774200E+00	0.170110E+01
14.000	0.299600E+00	-0.732000E-01	-0.458000E-01	0.134710E+01	0.248500E+00	0.686900E+00	0.161690E+01
14.200	0.295000E+00	-0.677000E-01	0.439000E-01	0.133920E+01	0.335200E+00	0.597900E+00	0.157040E+01
14.400	0.290500E+00	-0.619000E-01	0.470000E-01	0.132750E+01	0.415700E+00	0.509200E+00	0.153410E+01
14.600	0.285700E+00	-0.555000E-01	0.558000E-01	0.130970E+01	0.486900E+00	0.423400E+00	0.154860E+01
14.800	0.280300E+00	-0.484000E-01	0.709000E-01	0.128320E+01	0.545000E+00	0.344000E+00	0.152080E+01
15.000	0.274000E+00	-0.406000E-01	0.921000E-01	0.124540E+01	0.586300E+00	0.275000E+00	0.150190E+01
15.200	0.266100E+00	-0.321000E-01	0.118800E+00	0.119390E+01	0.607700E+00	0.216800E+00	0.147580E+01
15.400	0.256300E+00	-0.231000E-01	0.149300E+00	0.112720E+01	0.606900E+00	0.180600E+00	0.144400E+01
15.600	0.244300E+00	-0.138000E-01	0.181100E+00	0.104600E+01	0.584500E+00	0.163700E+00	0.140880E+01
15.800	0.230400E+00	-0.480000E-02	0.211400E+00	0.953600E+00	0.544300E+00	0.164000E+00	0.137350E+01
16.000	0.215100E+00	0.360000E-02	0.237400E+00	0.855800E+00	0.492600E+00	0.176500E+00	0.134250E+01
16.200	0.199300E+00	0.109000E-01	0.257600E+00	0.759000E+00	0.436200E+00	0.195500E+00	0.131870E+01
16.400	0.183900E+00	0.170000E-01	0.271600E+00	0.668700E+00	0.381400E+00	0.215300E+00	0.130380E+01
16.600	0.169400E+00	0.218000E-01	0.279900E+00	0.588000E+00	0.331400E+00	0.232900E+00	0.129880E+01
16.800	0.156200E+00	0.256000E-01	0.283600E+00	0.518100E+00	0.288700E+00	0.245500E+00	0.130040E+01
17.000	0.144500E+00	0.284000E-01	0.283700E+00	0.458400E+00	0.252800E+00	0.253600E+00	0.130800E+01
17.200	0.134000E+00	0.305000E-01	0.281200E+00	0.407900E+00	0.223100E+00	0.257600E+00	0.132020E+01
17.400	0.124700E+00	0.320000E-01	0.277000E+00	0.365300E+00	0.198800E+00	0.258400E+00	0.133570E+01
17.600	0.116500E+00	0.330000E-01	0.271700E+00	0.329200E+00	0.178700E+00	0.256600E+00	0.135320E+01
17.800	0.109200E+00	0.336000E-01	0.265600E+00	0.298400E+00	0.162200E+00	0.253100E+00	0.137200E+01
18.000	0.102600E+00	0.340000E-01	0.259000E+00	0.272100E+00	0.148400E+00	0.248300E+00	0.139160E+01
18.200	0.967000E-01	0.341000E-01	0.252200E+00	0.249400E+00	0.136700E+00	0.242800E+00	0.141140E+01
18.400	0.913000E-01	0.340000E-01	0.245400E+00	0.229700E+00	0.126800E+00	0.236800E+00	0.143110E+01

1								
2								
3	18.600	0.864000E-01	0.338000E-01	0.238500E+00	0.212500E+00	0.118200E+00	0.230600E+00	0.145050E+01
4	18.800	0.819000E-01	0.334000E-01	0.231700E+00	0.197300E+00	0.110800E+00	0.224200E+00	0.146940E+01
5	19.000	0.778000E-01	0.330000E-01	0.225100E+00	0.184000E+00	0.104300E+00	0.217700E+00	0.148720E+01
6	19.200	0.741000E-01	0.324000E-01	0.218600E+00	0.172000E+00	0.984000E-01	0.211700E+00	0.150470E+01
7	19.400	0.706000E-01	0.319000E-01	0.212200E+00	0.161300E+00	0.933000E-01	0.205800E+00	0.152120E+01
8	19.600	0.673000E-01	0.313000E-01	0.206100E+00	0.151700E+00	0.886000E-01	0.199900E+00	0.153650E+01
9	19.800	0.643000E-01	0.306000E-01	0.200100E+00	0.143100E+00	0.843000E-01	0.194300E+00	0.155080E+01
10	20.000	0.614000E-01	0.299000E-01	0.194400E+00	0.135200E+00	0.805000E-01	0.188900E+00	0.156240E+01
11	20.200	0.588000E-01	0.292000E-01	0.188900E+00	0.128000E+00	0.769000E-01	0.183800E+00	0.157120E+01
12	20.400	0.563000E-01	0.285000E-01	0.183500E+00	0.121500E+00	0.736000E-01	0.178700E+00	0.157640E+01
13	20.600	0.540000E-01	0.278000E-01	0.178400E+00	0.115400E+00	0.706000E-01	0.173900E+00	0.157600E+01
14	20.800	0.518000E-01	0.271000E-01	0.173400E+00	0.109900E+00	0.678000E-01	0.169300E+00	0.156760E+01
15	21.200	0.478000E-01	0.257000E-01	0.164000E+00	0.100000E+00	0.626000E-01	0.160700E+00	0.150810E+01
16	21.400	0.460000E-01	0.250000E-01	0.159500E+00	0.955000E-01	0.604000E-01	0.156600E+00	0.144150E+01
17	21.600	0.442000E-01	0.243000E-01	0.155200E+00	0.914000E-01	0.582000E-01	0.152700E+00	0.133750E+01
18	22.000	0.410000E-01	0.229000E-01	0.147000E+00	0.840000E-01	0.542000E-01	0.145200E+00	0.102150E+01
19	22.200	0.396000E-01	0.223000E-01	0.143100E+00	0.806000E-01	0.525000E-01	0.141600E+00	0.849300E+00
20	22.400	0.381000E-01	0.216000E-01	0.139400E+00	0.774000E-01	0.508000E-01	0.138200E+00	0.698100E+00
21	23.600	0.310000E-01	0.181000E-01	0.119400E+00	0.619000E-01	0.424000E-01	0.119500E+00	0.258800E+00
22	24.000	0.290000E-01	0.170000E-01	0.113600E+00	0.577000E-01	0.401000E-01	0.113900E+00	0.202400E+00
23	24.200	0.281000E-01	0.165000E-01	0.110900E+00	0.558000E-01	0.391000E-01	0.111200E+00	0.181000E+00
24	24.400	0.272000E-01	0.160000E-01	0.108200E+00	0.539000E-01	0.381000E-01	0.108700E+00	0.163000E+00
25	24.800	0.255000E-01	0.151000E-01	0.103100E+00	0.505000E-01	0.362000E-01	0.103700E+00	0.134500E+00
26	25.000	0.247000E-01	0.147000E-01	0.100700E+00	0.489000E-01	0.353000E-01	0.101300E+00	0.123100E+00
27	25.400	0.232000E-01	0.138000E-01	0.960000E-01	0.459000E-01	0.336000E-01	0.967000E-01	0.104500E+00
28	25.600	0.225000E-01	0.134000E-01	0.938000E-01	0.446000E-01	0.329000E-01	0.944000E-01	0.968000E-01
29	25.800	0.219000E-01	0.130000E-01	0.917000E-01	0.432000E-01	0.321000E-01	0.923000E-01	0.900000E-01
30	26.000	0.212000E-01	0.126000E-01	0.896000E-01	0.419000E-01	0.314000E-01	0.901000E-01	0.839000E-01
31	26.400	0.200000E-01	0.119000E-01	0.856000E-01	0.395000E-01	0.300000E-01	0.861000E-01	0.736000E-01
32	26.600	0.194000E-01	0.115000E-01	0.837000E-01	0.384000E-01	0.293000E-01	0.841000E-01	0.691000E-01
33	26.800	0.189000E-01	0.112000E-01	0.819000E-01	0.373000E-01	0.287000E-01	0.822000E-01	0.652000E-01
34	27.000	0.184000E-01	0.109000E-01	0.801000E-01	0.362000E-01	0.280000E-01	0.803000E-01	0.615000E-01
35	27.200	0.178000E-01	0.106000E-01	0.783000E-01	0.352000E-01	0.274000E-01	0.784000E-01	0.581000E-01
36	27.400	0.173000E-01	0.103000E-01	0.766000E-01	0.343000E-01	0.268000E-01	0.767000E-01	0.550000E-01
37	27.600	0.169000E-01	0.100000E-01	0.750000E-01	0.333000E-01	0.263000E-01	0.749000E-01	0.522000E-01
38	28.000	0.160000E-01	0.940000E-02	0.719000E-01	0.316000E-01	0.252000E-01	0.716000E-01	0.472000E-01
39	28.200	0.155000E-01	0.910000E-02	0.704000E-01	0.307000E-01	0.246000E-01	0.700000E-01	0.450000E-01
40	28.600	0.147000E-01	0.860000E-02	0.675000E-01	0.291000E-01	0.236000E-01	0.669000E-01	0.411000E-01
41	28.800	0.143000E-01	0.840000E-02	0.661000E-01	0.284000E-01	0.231000E-01	0.654000E-01	0.393000E-01
42	29.400	0.132000E-01	0.770000E-02	0.622000E-01	0.263000E-01	0.217000E-01	0.612000E-01	0.344000E-01
43	30.200	0.119000E-01	0.690000E-02	0.574000E-01	0.238000E-01	0.200000E-01	0.560000E-01	0.293000E-01
44	30.400	0.116000E-01	0.670000E-02	0.563000E-01	0.232000E-01	0.196000E-01	0.547000E-01	0.282000E-01
45	31.400	0.103000E-01	0.580000E-02	0.511000E-01	0.206000E-01	0.178000E-01	0.491000E-01	0.235000E-01
46	31.600	0.100000E-01	0.570000E-02	0.502000E-01	0.202000E-01	0.174000E-01	0.480000E-01	0.227000E-01
47	31.800	0.980000E-02	0.550000E-02	0.492000E-01	0.197000E-01	0.171000E-01	0.470000E-01	0.219000E-01

Table 4: $(4)^1\Sigma^+-(1-7)^1\Pi$ transitions

R	4-1	4-2	4-3	4-4	4-5	4-6	4-7
3.000	0.238370E+01	-0.497200E+00	-0.400600E+01	0.413730E+01	-0.202970E+01	0.394200E+00	-0.605800E+00
3.200	0.239490E+01	-0.539300E+00	-0.381840E+01	0.413600E+01	-0.240080E+01	0.342900E+00	-0.624400E+00
3.400	0.243330E+01	-0.511000E+00	-0.387230E+01	0.397050E+01	-0.263230E+01	0.280500E+00	-0.611400E+00
3.800	0.257810E+01	-0.328100E+00	-0.433510E+01	0.338450E+01	-0.283250E+01	0.159900E+00	-0.515100E+00
4.000	0.267100E+01	-0.201500E+00	-0.462310E+01	0.301950E+01	-0.283790E+01	0.112800E+00	-0.447600E+00
4.200	0.276890E+01	-0.630000E-01	-0.488910E+01	0.266300E+01	-0.279400E+01	0.749000E-01	-0.374600E+00
4.400	0.286630E+01	0.812000E-01	-0.511090E+01	0.236640E+01	-0.271280E+01	0.452000E-01	-0.299600E+00
4.600	0.295970E+01	0.225700E+00	-0.528510E+01	0.216600E+01	-0.260650E+01	0.245000E-01	-0.223400E+00
4.800	0.304640E+01	0.366000E+00	-0.541760E+01	0.207190E+01	-0.248610E+01	-0.145000E-01	-0.150200E+00
5.200	0.319330E+01	0.623900E+00	-0.559120E+01	0.214520E+01	-0.222360E+01	-0.316000E-01	-0.202000E-01
5.400	0.325190E+01	0.740000E+00	-0.564410E+01	0.226810E+01	-0.208440E+01	-0.525000E-01	0.347000E-01
5.600	0.329990E+01	0.848500E+00	-0.567830E+01	0.242240E+01	-0.194230E+01	-0.746000E-01	0.816000E-01
5.800	0.333690E+01	0.950800E+00	-0.569410E+01	0.259700E+01	-0.179990E+01	-0.931000E-01	0.121300E+00
6.000	0.336250E+01	0.104840E+01	-0.568990E+01	0.278710E+01	-0.166080E+01	-0.104700E+00	0.154200E+00
6.200	0.337580E+01	0.114260E+01	-0.566170E+01	0.299380E+01	-0.152810E+01	-0.106500E+00	0.180400E+00
6.400	0.337590E+01	0.123390E+01	-0.560310E+01	0.322190E+01	-0.140380E+01	-0.967000E-01	0.200200E+00
6.600	0.336140E+01	0.132250E+01	-0.550490E+01	0.347790E+01	-0.128930E+01	-0.745000E-01	0.212600E+00
6.800	0.332990E+01	0.140730E+01	-0.535410E+01	0.376630E+01	-0.118380E+01	-0.374000E-01	0.218700E+00
7.000	0.327760E+01	0.148600E+01	-0.513680E+01	0.408440E+01	-0.108640E+01	-0.164000E-01	0.218300E+00
7.200	0.319800E+01	0.155440E+01	-0.484200E+01	0.441290E+01	-0.993500E+00	0.906000E-01	0.215500E+00
7.400	0.307920E+01	0.160300E+01	-0.447250E+01	0.470760E+01	-0.901000E+00	0.192400E+00	0.208000E+00
7.600	0.290090E+01	0.161740E+01	-0.405070E+01	0.489350E+01	-0.798500E+00	0.329800E+00	0.202900E+00
7.800	0.263470E+01	0.157630E+01	-0.361340E+01	0.487770E+01	-0.671000E+00	0.506700E+00	0.206600E+00
8.000	0.226520E+01	0.146250E+01	-0.319160E+01	0.459880E+01	-0.506600E+00	0.707600E+00	0.220200E+00
8.200	0.183260E+01	0.129060E+01	-0.280830E+01	0.410960E+01	-0.314800E+00	0.892600E+00	0.236100E+00
8.400	0.142140E+01	0.110780E+01	-0.248660E+01	0.356800E+01	-0.126700E+00	0.102700E+01	0.244100E+00
8.600	0.108510E+01	0.949600E+00	-0.223430E+01	0.309660E+01	0.331000E-01	0.111070E+01	0.239600E+00
8.800	0.828400E+00	0.824400E+00	-0.204260E+01	0.272760E+01	0.159400E+00	0.115750E+01	0.225600E+00
9.000	0.635500E+00	0.727000E+00	-0.189630E+01	0.244790E+01	0.255800E+00	0.118160E+01	0.205400E+00
9.200	0.490000E+00	0.650500E+00	-0.178210E+01	0.223610E+01	0.328000E+00	0.119300E+01	0.182400E+00
9.400	0.379200E+00	0.589200E+00	-0.169100E+01	0.207430E+01	0.381300E+00	0.119570E+01	0.158500E+00
9.600	0.294400E+00	0.539200E+00	-0.161630E+01	0.194900E+01	0.420200E+00	0.119280E+01	0.135800E+00
9.800	0.229400E+00	0.497600E+00	-0.155370E+01	0.185100E+01	0.448300E+00	0.118710E+01	0.115100E+00
10.000	0.179900E+00	0.462600E+00	-0.150020E+01	0.177370E+01	0.468600E+00	0.117930E+01	0.966000E-01
10.200	0.142600E+00	0.432700E+00	-0.145380E+01	0.171220E+01	0.483700E+00	0.116990E+01	0.805000E-01
10.400	0.115000E+00	0.406700E+00	-0.141290E+01	0.166330E+01	0.496000E+00	0.115970E+01	0.662000E-01
10.600	0.953000E-01	0.383700E+00	-0.137640E+01	0.162420E+01	0.507400E+00	0.114990E+01	0.534000E-01
10.800	0.818000E-01	0.363200E+00	-0.134340E+01	0.159300E+01	0.519600E+00	0.113990E+01	0.416000E-01
11.000	0.733000E-01	0.344500E+00	-0.131330E+01	0.156810E+01	0.534000E+00	0.113050E+01	0.302000E-01
11.200	0.686000E-01	0.327300E+00	-0.128530E+01	0.154800E+01	0.552100E+00	0.112190E+01	0.199000E-01
11.400	0.669000E-01	0.311300E+00	-0.125900E+01	0.153220E+01	0.573900E+00	0.111440E+01	0.920000E-02
11.600	0.673000E-01	0.296200E+00	-0.123370E+01	0.151960E+01	0.600500E+00	0.110840E+01	-0.130000E-02
11.800	0.693000E-01	0.281900E+00	-0.120900E+01	0.150920E+01	0.632200E+00	0.110400E+01	-0.101000E-01
12.000	0.724000E-01	0.268300E+00	-0.118450E+01	0.150050E+01	0.668800E+00	0.110180E+01	-0.174000E-01
12.200	0.762000E-01	0.255300E+00	-0.115970E+01	0.149230E+01	0.710800E+00	0.110160E+01	-0.214000E-01
12.400	0.803000E-01	0.242700E+00	-0.113410E+01	0.148420E+01	0.757400E+00	0.110390E+01	-0.197000E-01
12.600	0.845000E-01	0.230600E+00	-0.110760E+01	0.147580E+01	0.808100E+00	0.110890E+01	0.830000E-02
12.800	0.887000E-01	0.218900E+00	-0.107960E+01	0.146680E+01	0.861900E+00	0.111730E+01	0.202000E-01
13.000	0.927000E-01	0.207600E+00	-0.104990E+01	0.145690E+01	0.917900E+00	0.112950E+01	0.777000E-01
13.200	0.966000E-01	0.196800E+00	-0.101840E+01	0.144600E+01	0.975200E+00	0.114570E+01	0.186100E+00
13.400	0.100200E+00	0.186300E+00	-0.984800E+00	0.143430E+01	0.103270E+01	0.116640E+01	0.380800E+00
13.600	0.103700E+00	0.176400E+00	-0.949100E+00	0.142240E+01	0.108920E+01	0.119190E+01	0.667800E+00
13.800	0.107300E+00	0.166900E+00	-0.911300E+00	0.141070E+01	0.114380E+01	0.122210E+01	0.907300E+00
14.000	0.111100E+00	0.157900E+00	-0.871500E+00	0.140070E+01	0.119610E+01	0.125690E+01	0.100270E+01
14.200	0.115600E+00	0.149600E+00	-0.830000E+00	0.139340E+01	0.124530E+01	0.129630E+01	0.101100E+01
14.400	0.121000E+00	0.141800E+00	-0.786600E+00	0.139130E+01	0.129260E+01	0.133940E+01	0.981300E+00
14.600	0.127800E+00	0.134800E+00	-0.741700E+00	0.139610E+01	0.133810E+01	0.138620E+01	0.934800E+00
14.800	0.136600E+00	0.128300E+00	-0.695400E+00	0.141000E+01	0.138340E+01	0.143630E+01	0.881700E+00
15.000	0.147600E+00	0.122400E+00	-0.647500E+00	0.143460E+01	0.143010E+01	0.148940E+01	0.827700E+00
15.200	0.161100E+00	0.117000E+00	-0.597600E+00	0.147030E+01	0.147910E+01	0.154370E+01	0.776500E+00
15.400	0.176900E+00	0.111600E+00	-0.545000E+00	0.151650E+01	0.153160E+01	0.160230E+01	0.728700E+00
15.600	0.194300E+00	0.106300E+00	-0.490100E+00	0.156910E+01	0.158500E+01	0.166120E+01	0.683400E+00
15.800	0.212500E+00	0.100700E+00	-0.432800E+00	0.162360E+01	0.163740E+01	0.171910E+01	0.638400E+00
16.000	0.230200E+00	0.949000E-01	-0.374400E+00	0.167520E+01	0.168540E+01	0.177370E+01	0.590600E+00
16.200	0.246800E+00	0.889000E-01	-0.316300E+00	0.171970E+01	0.172630E+01	0.182350E+01	0.538100E+00
16.400	0.261500E+00	0.828000E-01	-0.260000E+00	0.175690E+01	0.176030E+01	0.186740E+01	0.480200E+00
16.600	0.274500E+00	0.768000E-01	-0.206500E+00	0.178670E+01	0.178690E+01	0.190510E+01	0.418600E+00
16.800	0.285900E+00	0.711000E-01	-0.156500E+00	0.181050E+01	0.180740E+01	0.193660E+01	0.355100E+00
17.000	0.296100E+00	0.657000E-01	-0.110300E+00	0.182990E+01	0.182270E+01	0.196220E+01	0.292200E+00
17.200	0.305400E+00	0.607000E-01	-0.677000E-01	0.184630E+01	0.183410E+01	0.198250E+01	0.231800E+00
17.400	0.314000E+00	0.561000E-01	-0.288000E-01	0.186120E+01	0.184190E+01	0.199770E+01	0.175500E+00
17.600	0.322300E+00	0.519000E-01	0.700000E-02	0.187490E+01	0.184750E+01	0.200940E+01	0.124100E+00
17.800	0.330400E+00	0.481000E-01	0.397000E-01	0.188840E+01	0.185080E+01	0.201790E+01	0.782000E-01
18.000	0.338500E+00	0.446000E-01	0.696000E-01	0.190210E+01	0.185260E+01	0.202360E+01	0.377000E-01
18.200	0.346600E+00	0.415000E-01	0.968000E-01	0.191650E+01	0.185250E+01	0.202700E+01	0.290000E-02
18.400	0.355000E+00	0.386000E-01	0.121600E+00	0.193180E+01	0.185130E+01	0.202900E+01	-0.269000E-01

1								
2								
3	18.600	0.363600E+00	0.361000E-01	0.144100E+00	0.194820E+01	0.184900E+01	0.202970E+01	-0.520000E-01
4	18.800	0.372700E+00	0.338000E-01	0.164500E+00	0.196610E+01	0.184560E+01	0.202940E+01	-0.729000E-01
5	19.000	0.382300E+00	0.317000E-01	0.183000E+00	0.198570E+01	0.184100E+01	0.202830E+01	-0.898000E-01
6	19.200	0.392400E+00	0.299000E-01	0.199600E+00	0.200710E+01	0.183540E+01	0.202690E+01	-0.103500E+00
7	19.400	0.403200E+00	0.283000E-01	0.214500E+00	0.203060E+01	0.182870E+01	0.202500E+01	-0.114500E+00
8	19.600	0.414800E+00	0.269000E-01	0.227900E+00	0.205640E+01	0.182100E+01	0.202280E+01	-0.123100E+00
9	19.800	0.427300E+00	0.256000E-01	0.239700E+00	0.208470E+01	0.181140E+01	0.201930E+01	-0.129300E+00
10	20.000	0.440700E+00	0.245000E-01	0.250100E+00	0.211600E+01	0.180150E+01	0.201690E+01	-0.134300E+00
11	20.200	0.455300E+00	0.236000E-01	0.259300E+00	0.215040E+01	0.179040E+01	0.201440E+01	-0.138000E+00
12	20.400	0.471200E+00	0.228000E-01	0.267200E+00	0.218820E+01	0.177800E+01	0.201160E+01	-0.140700E+00
13	20.600	0.488600E+00	0.221000E-01	0.273900E+00	0.223000E+01	0.176430E+01	0.200870E+01	-0.142600E+00
14	20.800	0.507500E+00	0.216000E-01	0.279500E+00	0.227610E+01	0.174920E+01	0.200550E+01	-0.144000E+00
15	21.200	0.551300E+00	0.210000E-01	0.287500E+00	0.238340E+01	0.171400E+01	0.199790E+01	-0.145600E+00
16	21.400	0.576700E+00	0.208000E-01	0.290000E+00	0.244570E+01	0.169370E+01	0.199310E+01	-0.145600E+00
17	21.600	0.604900E+00	0.208000E-01	0.291500E+00	0.251470E+01	0.167140E+01	0.198740E+01	-0.144000E+00
18	22.000	0.671000E+00	0.211000E-01	0.291600E+00	0.267610E+01	0.161960E+01	0.197210E+01	-0.131500E+00
19	22.200	0.709900E+00	0.215000E-01	0.290100E+00	0.277030E+01	0.158960E+01	0.196170E+01	-0.119700E+00
20	22.400	0.753400E+00	0.219000E-01	0.287600E+00	0.287500E+01	0.155660E+01	0.194890E+01	-0.105100E+00
21	23.600	0.114560E+01	0.277000E-01	0.248100E+00	0.377840E+01	0.126940E+01	0.177700E+01	0.344000E-01
22	24.000	0.133600E+01	0.308000E-01	0.224800E+00	0.419170E+01	0.113250E+01	0.166150E+01	0.103100E+00
23	24.200	0.144090E+01	0.323000E-01	0.211200E+00	0.441240E+01	0.105590E+01	0.158780E+01	0.142800E+00
24	24.400	0.155010E+01	0.339000E-01	0.196600E+00	0.463680E+01	0.975300E+00	0.150400E+01	0.184700E+00
25	24.800	0.177100E+01	0.369000E-01	0.165700E+00	0.507460E+01	0.808000E+00	0.131260E+01	0.271400E+00
26	25.000	0.187720E+01	0.382000E-01	0.150200E+00	0.527680E+01	0.725100E+00	0.120940E+01	0.314100E+00
27	25.400	0.206930E+01	0.401000E-01	0.120700E+00	0.562790E+01	0.569600E+00	0.100240E+01	0.393300E+00
28	25.600	0.215250E+01	0.407000E-01	0.107300E+00	0.577350E+01	0.499700E+00	0.903700E+00	0.428500E+00
29	25.800	0.222640E+01	0.411000E-01	0.951000E-01	0.589910E+01	0.436100E+00	0.810800E+00	0.460500E+00
30	26.000	0.229130E+01	0.413000E-01	0.840000E-01	0.600630E+01	0.378800E+00	0.724800E+00	0.489200E+00
31	26.400	0.239680E+01	0.412000E-01	0.654000E-01	0.617360E+01	0.283000E+00	0.575300E+00	0.537500E+00
32	26.600	0.243910E+01	0.410000E-01	0.576000E-01	0.623790E+01	0.243500E+00	0.511600E+00	0.557500E+00
33	26.800	0.247560E+01	0.407000E-01	0.508000E-01	0.629200E+01	0.209000E+00	0.454700E+00	0.575200E+00
34	27.000	0.250710E+01	0.403000E-01	0.448000E-01	0.633760E+01	0.178900E+00	0.404200E+00	0.590800E+00
35	27.200	0.253430E+01	0.398000E-01	0.395000E-01	0.637610E+01	0.152600E+00	0.359300E+00	0.604600E+00
36	27.400	0.255780E+01	0.393000E-01	0.349000E-01	0.640870E+01	0.129700E+00	0.319500E+00	0.616900E+00
37	27.600	0.257830E+01	0.387000E-01	0.309000E-01	0.643640E+01	0.109700E+00	0.284200E+00	0.627800E+00
38	28.000	0.261160E+01	0.375000E-01	0.242000E-01	0.648030E+01	0.771000E-01	0.225300E+00	0.646300E+00
39	28.200	0.262530E+01	0.369000E-01	0.215000E-01	0.649780E+01	0.639000E-01	0.200700E+00	0.654200E+00
40	28.600	0.264780E+01	0.356000E-01	0.169000E-01	0.652610E+01	0.422000E-01	0.159600E+00	0.667600E+00
41	28.800	0.265720E+01	0.350000E-01	0.151000E-01	0.653760E+01	0.334000E-01	0.142400E+00	0.673400E+00
42	29.400	0.267950E+01	0.331000E-01	0.107000E-01	0.656440E+01	0.130000E-01	0.101200E+00	0.687700E+00
43	30.200	0.269980E+01	0.308000E-01	0.680000E-02	0.658810E+01	0.390000E-02	0.641000E-01	0.701800E+00
44	30.400	0.270370E+01	0.302000E-01	0.610000E-02	0.659260E+01	0.690000E-02	0.571000E-01	0.704700E+00
45	31.400	0.271850E+01	0.275000E-01	0.370000E-02	0.660970E+01	0.167000E-01	0.315000E-01	0.716100E+00
46	31.600	0.272090E+01	0.270000E-01	0.330000E-02	0.661230E+01	0.179000E-01	0.278000E-01	0.718000E+00
47	31.800	0.272300E+01	0.265000E-01	0.300000E-02	0.661470E+01	0.189000E-01	0.244000E-01	0.719700E+00

Table 5: $(1)^3\Sigma^+-(1-7)^3\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.200	0.105600E+00	0.194830E+01	-0.236970E+01	-0.760300E+00	0.254900E+00	-0.180500E+00	-0.274100E+00
3.400	0.135800E+00	0.198550E+01	-0.238180E+01	-0.790300E+00	0.189000E+00	-0.221200E+00	-0.273600E+00
3.800	0.200700E+00	0.209150E+01	-0.234780E+01	-0.880400E+00	0.574000E-01	-0.279500E+00	-0.262900E+00
4.000	0.231900E+00	0.215420E+01	-0.225910E+01	-0.104310E+01	0.810000E-02	-0.297500E+00	-0.256400E+00
4.200	0.260900E+00	0.221750E+01	-0.151970E+01	-0.193670E+01	0.728000E-01	-0.309300E+00	-0.249800E+00
4.400	0.287300E+00	0.227780E+01	-0.105100E+00	-0.242890E+01	0.136300E+00	-0.316200E+00	-0.243300E+00
4.600	0.310900E+00	0.233280E+01	0.344400E+00	-0.237430E+01	0.199300E+00	-0.318800E+00	-0.236200E+00
4.800	0.331900E+00	0.238170E+01	0.409600E+00	-0.233170E+01	0.263300E+00	-0.317300E+00	-0.228600E+00
5.200	0.367400E+00	0.246160E+01	0.437200E+00	-0.226370E+01	0.408000E+00	-0.296200E+00	-0.209800E+00
5.400	0.383000E+00	0.249400E+01	0.435300E+00	-0.223100E+01	0.498000E+00	-0.269700E+00	-0.197700E+00
5.600	0.397800E+00	0.252230E+01	0.430000E+00	-0.219500E+01	0.602700E+00	-0.226900E+00	-0.183700E+00
5.800	0.412200E+00	0.254760E+01	0.423600E+00	-0.215570E+01	0.708900E+00	-0.167500E+00	-0.168300E+00
6.000	0.426800E+00	0.257050E+01	0.417700E+00	-0.212270E+01	0.782000E+00	-0.101600E+00	-0.152400E+00
6.200	0.441900E+00	0.259170E+01	0.413400E+00	-0.211090E+01	0.787800E+00	-0.487000E-01	-0.136900E+00
6.400	0.457800E+00	0.261200E+01	0.411900E+00	-0.212140E+01	0.726200E+00	-0.227000E-01	-0.122700E+00
6.600	0.474800E+00	0.263200E+01	0.414500E+00	-0.213970E+01	0.626300E+00	0.210000E-01	-0.110300E+00
6.800	0.493200E+00	0.265210E+01	0.422700E+00	-0.215240E+01	0.519400E+00	0.340000E-01	-0.999000E-01
7.000	0.513300E+00	0.267290E+01	0.439100E+00	-0.215410E+01	0.423200E+00	0.523000E-01	-0.913000E-01
7.200	0.535200E+00	0.269450E+01	0.467500E+00	-0.214380E+01	0.343300E+00	0.707000E-01	-0.838000E-01
7.400	0.559300E+00	0.271760E+01	0.515900E+00	-0.212050E+01	0.279000E+00	0.874000E-01	-0.779000E-01
7.600	0.585800E+00	0.274200E+01	0.600300E+00	-0.207940E+01	0.227900E+00	0.101400E+00	-0.729000E-01
7.800	0.614900E+00	0.276810E+01	0.759200E+00	-0.209160E+01	0.187200E+00	0.113000E+00	-0.682000E-01
8.000	0.646900E+00	0.279570E+01	0.108810E+01	-0.181020E+01	0.154600E+00	0.122300E+00	-0.635000E-01
8.200	0.682100E+00	0.282470E+01	0.163290E+01	-0.128590E+01	0.128400E+00	0.129700E+00	-0.581000E-01
8.400	0.720600E+00	0.285480E+01	0.192480E+01	-0.676000E+00	0.107300E+00	0.135300E+00	-0.501000E-01
8.600	0.762800E+00	0.288560E+01	0.196340E+01	-0.365400E+00	0.901000E-01	0.139400E+00	-0.355000E-01
8.800	0.808800E+00	0.291660E+01	0.193790E+01	-0.213800E+00	0.763000E-01	0.142200E+00	-0.180000E-02
9.000	0.858800E+00	0.294720E+01	0.189370E+01	-0.128400E+00	0.650000E-01	0.143600E+00	0.688000E-01
9.200	0.913100E+00	0.297680E+01	0.184100E+01	-0.744000E-01	0.558000E-01	0.143800E+00	0.124800E+00
9.400	0.971600E+00	0.300460E+01	0.178300E+01	-0.371000E-01	0.484000E-01	0.142800E+00	0.146900E+00
9.600	0.103430E+01	0.303010E+01	0.172120E+01	-0.980000E-02	0.423000E-01	0.140500E+00	0.156900E+00
9.800	0.110120E+01	0.305260E+01	0.165630E+01	0.114000E-01	0.373000E-01	0.136500E+00	0.162700E+00
10.000	0.117200E+01	0.307150E+01	0.158900E+01	0.284000E-01	0.329000E-01	0.130500E+00	0.167400E+00
10.200	0.124610E+01	0.308660E+01	0.151960E+01	0.423000E-01	0.291000E-01	0.121100E+00	0.172800E+00
10.400	0.132300E+01	0.309750E+01	0.144870E+01	0.539000E-01	0.257000E-01	0.105300E+00	0.180700E+00
10.600	0.140210E+01	0.310420E+01	0.137650E+01	0.636000E-01	0.227000E-01	0.718000E-01	0.194100E+00
10.800	0.148230E+01	0.310680E+01	0.130330E+01	0.717000E-01	0.203000E-01	-0.114000E-01	0.204300E+00
11.000	0.156280E+01	0.310540E+01	0.122940E+01	0.784000E-01	0.189000E-01	-0.951000E-01	0.178600E+00
11.200	0.164250E+01	0.310040E+01	0.115500E+01	0.839000E-01	0.186000E-01	-0.126600E+00	0.154800E+00
11.400	0.172070E+01	0.309220E+01	0.108060E+01	0.884000E-01	0.196000E-01	-0.140500E+00	0.139000E+00
11.600	0.179630E+01	0.308110E+01	0.100660E+01	0.920000E-01	0.219000E-01	-0.148700E+00	0.126600E+00
11.800	0.186880E+01	0.306780E+01	0.933500E+00	0.950000E-01	0.255000E-01	-0.154200E+00	0.115800E+00
12.000	0.193750E+01	0.305260E+01	0.861700E+00	0.974000E-01	0.304000E-01	-0.158100E+00	0.105700E+00
12.200	0.200220E+01	0.303590E+01	0.792100E+00	0.993000E-01	0.366000E-01	-0.160700E+00	0.960000E-01
12.400	0.206260E+01	0.301810E+01	0.725000E+00	0.101000E+00	0.442000E-01	-0.162000E+00	0.865000E-01
12.600	0.211860E+01	0.299960E+01	0.661000E+00	0.102400E+00	0.532000E-01	-0.162000E+00	0.771000E-01
12.800	0.217040E+01	0.298070E+01	0.600700E+00	0.103800E+00	0.634000E-01	-0.160500E+00	0.679000E-01
13.000	0.221800E+01	0.296160E+01	0.544200E+00	0.105100E+00	0.746000E-01	-0.157400E+00	0.589000E-01
13.200	0.226170E+01	0.294260E+01	0.491900E+00	0.106400E+00	0.862000E-01	-0.152600E+00	0.502000E-01
13.400	0.230180E+01	0.292390E+01	0.443800E+00	0.107800E+00	0.976000E-01	-0.146300E+00	0.419000E-01
13.600	0.233840E+01	0.290570E+01	0.399900E+00	0.109200E+00	0.108200E+00	-0.139000E+00	0.339000E-01
13.800	0.237200E+01	0.288800E+01	0.360100E+00	0.110900E+00	0.117300E+00	-0.131200E+00	0.264000E-01
14.000	0.240270E+01	0.287100E+01	0.324200E+00	0.112600E+00	0.124900E+00	-0.123400E+00	0.195000E-01
14.200	0.243080E+01	0.285470E+01	0.292000E+00	0.114500E+00	0.130700E+00	-0.115900E+00	0.130000E-01
14.400	0.245660E+01	0.283920E+01	0.263300E+00	0.116600E+00	0.135100E+00	-0.109000E+00	0.690000E-02
14.600	0.248030E+01	0.282440E+01	0.237600E+00	0.118900E+00	0.138200E+00	-0.102600E+00	0.130000E-02
14.800	0.250200E+01	0.281050E+01	0.214900E+00	0.121400E+00	0.140100E+00	-0.967000E-01	-0.400000E-02
15.000	0.252210E+01	0.279730E+01	0.194700E+00	0.124000E+00	0.141200E+00	-0.911000E-01	-0.920000E-02
15.200	0.254060E+01	0.278480E+01	0.176800E+00	0.126900E+00	0.141400E+00	-0.859000E-01	-0.145000E-01
15.400	0.255780E+01	0.277310E+01	0.161000E+00	0.129800E+00	0.141000E+00	-0.806000E-01	-0.201000E-01
15.600	0.257360E+01	0.276200E+01	0.147000E+00	0.132900E+00	0.140000E+00	-0.749000E-01	-0.266000E-01
15.800	0.258840E+01	0.275160E+01	0.134700E+00	0.136200E+00	0.138500E+00	-0.679000E-01	-0.346000E-01
16.000	0.260210E+01	0.274180E+01	0.123700E+00	0.139500E+00	0.136500E+00	-0.581000E-01	-0.444000E-01
16.200	0.261490E+01	0.273250E+01	0.114000E+00	0.142900E+00	0.134100E+00	-0.447000E-01	-0.542000E-01
16.400	0.262690E+01	0.272370E+01	0.105400E+00	0.146400E+00	0.131300E+00	-0.304000E-01	-0.602000E-01
16.600	0.263810E+01	0.271550E+01	0.978000E-01	0.149900E+00	0.128200E+00	-0.190000E-01	-0.619000E-01
16.800	0.264870E+01	0.270770E+01	0.909000E-01	0.153400E+00	0.124700E+00	-0.113000E-01	-0.611000E-01
17.000	0.265860E+01	0.270030E+01	0.848000E-01	0.156900E+00	0.120900E+00	-0.600000E-02	-0.592000E-01
17.200	0.266790E+01	0.269320E+01	0.794000E-01	0.160300E+00	0.116900E+00	-0.230000E-02	-0.568000E-01
17.400	0.267670E+01	0.268660E+01	0.745000E-01	0.163600E+00	0.112700E+00	0.400000E-03	-0.543000E-01
17.600	0.268500E+01	0.268030E+01	0.700000E-01	0.166800E+00	0.108200E+00	0.240000E-02	-0.516000E-01
17.800	0.269280E+01	0.267420E+01	0.660000E-01	0.169900E+00	0.103700E+00	0.400000E-02	-0.488000E-01
18.000	0.270030E+01	0.266850E+01	0.624000E-01	0.172800E+00	0.990000E-01	0.520000E-02	-0.460000E-01
18.200	0.270730E+01	0.266310E+01	0.591000E-01	0.175500E+00	0.943000E-01	0.620000E-02	-0.432000E-01
18.400	0.271400E+01	0.265790E+01	0.561000E-01	0.178000E+00	0.896000E-01	0.690000E-02	-0.404000E-01
18.600	0.272040E+01	0.265290E+01	0.533000E-01	0.180300E+00	0.850000E-01	0.750000E-02	-0.376000E-01

18.800	0.272650E+01	0.264820E+01	0.507000E-01	0.182400E+00	0.804000E-01	0.800000E-02	-0.349000E-01
19.000	0.273230E+01	0.264360E+01	0.483000E-01	0.184300E+00	0.758000E-01	0.830000E-02	-0.324000E-01
19.200	0.273780E+01	0.263930E+01	0.462000E-01	0.186000E+00	0.715000E-01	0.860000E-02	-0.299000E-01
19.400	0.274310E+01	0.263510E+01	0.441000E-01	0.187500E+00	0.673000E-01	0.890000E-02	-0.274000E-01
19.600	0.274820E+01	0.263110E+01	0.422000E-01	0.188800E+00	0.634000E-01	0.910000E-02	-0.249000E-01
19.800	0.275300E+01	0.262730E+01	0.405000E-01	0.190000E+00	0.596000E-01	0.920000E-02	-0.226000E-01
20.000	0.275760E+01	0.262360E+01	0.388000E-01	0.191000E+00	0.560000E-01	0.930000E-02	-0.204000E-01
20.200	0.276210E+01	0.262010E+01	0.372000E-01	0.191900E+00	0.526000E-01	0.940000E-02	-0.182000E-01
20.400	0.276630E+01	0.261670E+01	0.358000E-01	0.192600E+00	0.495000E-01	0.950000E-02	-0.162000E-01
20.600	0.277040E+01	0.261340E+01	0.344000E-01	0.193300E+00	0.465000E-01	0.960000E-02	-0.142000E-01
20.800	0.277430E+01	0.261030E+01	0.331000E-01	0.193800E+00	0.437000E-01	0.960000E-02	-0.122000E-01
21.200	0.278170E+01	0.260430E+01	0.307000E-01	0.194700E+00	0.386000E-01	0.970000E-02	-0.780000E-02
21.400	0.278520E+01	0.260150E+01	0.296000E-01	0.195000E+00	0.363000E-01	0.970000E-02	-0.480000E-02
21.600	0.278860E+01	0.259880E+01	0.285000E-01	0.195300E+00	0.342000E-01	0.970000E-02	-0.300000E-03
22.000	0.279490E+01	0.259360E+01	0.266000E-01	0.195800E+00	0.303000E-01	0.970000E-02	0.544000E-01
22.200	0.279790E+01	0.259120E+01	0.257000E-01	0.195900E+00	0.286000E-01	0.970000E-02	0.616000E-01
22.400	0.280080E+01	0.258880E+01	0.248000E-01	0.196100E+00	0.269000E-01	0.970000E-02	0.624000E-01
23.600	0.281620E+01	0.257610E+01	0.203000E-01	0.196500E+00	0.190000E-01	0.960000E-02	0.611000E-01
24.000	0.282060E+01	0.257260E+01	0.190000E-01	0.196500E+00	0.169000E-01	0.950000E-02	0.605000E-01
24.200	0.282270E+01	0.257070E+01	0.184000E-01	0.196500E+00	0.159000E-01	0.950000E-02	0.602000E-01
24.400	0.282480E+01	0.256900E+01	0.179000E-01	0.196500E+00	0.150000E-01	0.940000E-02	0.600000E-01
24.800	0.282870E+01	0.256590E+01	0.168000E-01	0.196500E+00	0.133000E-01	0.930000E-02	0.596000E-01
25.000	0.283050E+01	0.256400E+01	0.163000E-01	0.196500E+00	0.125000E-01	0.920000E-02	0.595000E-01
25.400	0.283410E+01	0.256120E+01	0.153000E-01	0.196400E+00	0.111000E-01	0.900000E-02	0.593000E-01
25.600	0.283580E+01	0.255950E+01	0.148000E-01	0.196400E+00	0.104000E-01	0.890000E-02	0.593000E-01
25.800	0.283740E+01	0.255820E+01	0.144000E-01	0.196400E+00	0.980000E-02	0.880000E-02	0.593000E-01
26.000	0.283900E+01	0.255720E+01	0.140000E-01	0.196400E+00	0.920000E-02	0.860000E-02	0.593000E-01
26.400	0.284200E+01	0.255460E+01	0.132000E-01	0.196300E+00	0.810000E-02	0.830000E-02	0.595000E-01
26.600	0.284350E+01	0.255350E+01	0.128000E-01	0.196300E+00	0.760000E-02	0.810000E-02	0.596000E-01
26.800	0.284490E+01	0.255230E+01	0.124000E-01	0.196200E+00	0.720000E-02	0.790000E-02	0.597000E-01
27.000	0.284630E+01	0.255120E+01	0.121000E-01	0.196200E+00	0.670000E-02	0.770000E-02	0.599000E-01
27.200	0.284760E+01	0.255000E+01	0.117000E-01	0.196200E+00	0.630000E-02	0.750000E-02	0.601000E-01
27.400	0.284890E+01	0.254890E+01	0.114000E-01	0.196100E+00	0.590000E-02	0.730000E-02	0.604000E-01
27.600	0.285010E+01	0.254790E+01	0.110000E-01	0.196100E+00	0.560000E-02	0.700000E-02	0.606000E-01
28.000	0.285250E+01	0.254590E+01	0.104000E-01	0.196000E+00	0.490000E-02	0.660000E-02	0.611000E-01
28.200	0.285370E+01	0.254480E+01	0.101000E-01	0.196000E+00	0.460000E-02	0.630000E-02	0.614000E-01
28.600	0.285590E+01	0.254300E+01	0.960000E-02	0.196000E+00	0.410000E-02	0.590000E-02	0.620000E-01
28.800	0.285690E+01	0.254210E+01	0.930000E-02	0.195900E+00	0.390000E-02	0.570000E-02	0.623000E-01
29.400	0.285990E+01	0.253950E+01	0.860000E-02	0.195800E+00	0.330000E-02	0.500000E-02	0.632000E-01
30.200	0.286350E+01	0.253640E+01	0.770000E-02	0.195700E+00	0.270000E-02	0.420000E-02	0.642000E-01
30.400	0.286360E+01	0.253490E+01	0.750000E-02	0.195700E+00	0.250000E-02	0.410000E-02	0.644000E-01
31.400	0.286820E+01	0.253230E+01	0.660000E-02	0.195600E+00	0.200000E-02	0.330000E-02	0.655000E-01
31.600	0.286910E+01	0.253170E+01	0.640000E-02	0.195600E+00	0.190000E-02	0.320000E-02	0.657000E-01
31.800	0.286970E+01	0.253110E+01	0.630000E-02	0.195500E+00	0.180000E-02	0.310000E-02	0.659000E-01

Table 6: $(2)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	2-1	2-2	2-3	2-4	2-5	2-6	2-7
3.000	-0.549000E-01	0.582500E+00	0.278700E+00	-0.154920E+01	-0.264100E+00	-0.121390E+01	-0.180500E+00
3.200	0.400000E-02	0.673200E+00	0.266400E+00	-0.149290E+01	-0.295300E+00	-0.125980E+01	-0.125800E+00
3.400	0.254000E-01	0.756600E+00	0.258800E+00	-0.148360E+01	-0.304900E+00	-0.131670E+01	-0.855000E-01
3.800	0.355000E-01	0.944100E+00	0.306600E+00	-0.168310E+01	-0.292900E+00	-0.142200E+01	0.563000E-01
4.000	0.151900E+00	0.105850E+01	0.464800E+00	-0.190060E+01	-0.272600E+00	-0.142800E+01	0.792000E-01
4.200	0.327300E+00	0.117520E+01	0.146950E+01	-0.173780E+01	-0.234400E+00	-0.137910E+01	0.131700E+00
4.400	0.533500E+00	0.126920E+01	0.255900E+01	-0.433700E+00	-0.169700E+00	-0.128320E+01	0.206400E+00
4.600	0.729000E+00	0.132070E+01	0.283130E+01	-0.206300E+00	-0.792000E-01	-0.117130E+01	0.288500E+00
4.800	0.888000E+00	0.132980E+01	0.297700E+01	-0.144200E+00	0.267000E-01	-0.107180E+01	0.364500E+00
5.200	0.109350E+01	0.127040E+01	0.303980E+01	-0.146400E+00	0.242500E+00	-0.933600E+00	0.481500E+00
5.400	0.115420E+01	0.122320E+01	0.301030E+01	-0.184500E+00	0.341600E+00	-0.882800E+00	0.523100E+00
5.600	0.119560E+01	0.117270E+01	0.296190E+01	-0.245000E+00	0.431000E+00	-0.832000E+00	0.555500E+00
5.800	0.122170E+01	0.112200E+01	0.290320E+01	-0.322900E+00	0.509400E+00	-0.778400E+00	0.580600E+00
6.000	0.123570E+01	0.107290E+01	0.283930E+01	-0.401700E+00	0.581800E+00	-0.715400E+00	0.599800E+00
6.200	0.123960E+01	0.102620E+01	0.277330E+01	-0.457600E+00	0.659500E+00	-0.645200E+00	0.614500E+00
6.400	0.123520E+01	0.982500E+00	0.270730E+01	-0.477600E+00	0.746500E+00	-0.572100E+00	0.625800E+00
6.600	0.122370E+01	0.941800E+00	0.264250E+01	-0.466100E+00	0.834400E+00	-0.501300E+00	0.634600E+00
6.800	0.120620E+01	0.904100E+00	0.258010E+01	-0.435000E+00	0.913100E+00	-0.436800E+00	0.641500E+00
7.000	0.118350E+01	0.869100E+00	0.252120E+01	-0.393300E+00	0.978300E+00	-0.387000E+00	0.647500E+00
7.200	0.115640E+01	0.836900E+00	0.246660E+01	-0.341800E+00	0.103060E+01	-0.332600E+00	0.652600E+00
7.400	0.112580E+01	0.806500E+00	0.241750E+01	-0.275100E+00	0.107130E+01	-0.293400E+00	0.658700E+00
7.600	0.109220E+01	0.778000E+00	0.237430E+01	-0.174100E+00	0.110270E+01	-0.261500E+00	0.666300E+00
7.800	0.105600E+01	0.751100E+00	0.233300E+01	0.830000E-02	0.112570E+01	-0.235400E+00	0.676100E+00
8.000	0.101780E+01	0.725400E+00	0.225540E+01	0.399500E+00	0.114140E+01	-0.214400E+00	0.690300E+00
8.200	0.978200E+00	0.700500E+00	0.194510E+01	0.113650E+01	0.115010E+01	-0.198500E+00	0.711800E+00
8.400	0.937100E+00	0.676600E+00	0.146950E+01	0.166500E+01	0.115310E+01	-0.185700E+00	0.748700E+00
8.600	0.895300E+00	0.653100E+00	0.120430E+01	0.183380E+01	0.115020E+01	-0.177400E+00	0.818300E+00
8.800	0.852800E+00	0.630300E+00	0.107890E+01	0.188580E+01	0.114260E+01	-0.171200E+00	0.961800E+00
9.000	0.810100E+00	0.608000E+00	0.101690E+01	0.190190E+01	0.113110E+01	-0.167900E+00	0.118600E+01
9.200	0.767500E+00	0.586200E+00	0.987000E+00	0.190550E+01	0.111700E+01	-0.167800E+00	0.131750E+01
9.400	0.725100E+00	0.564900E+00	0.975200E+00	0.190500E+01	0.110200E+01	-0.171000E+00	0.139450E+01
9.600	0.683300E+00	0.544200E+00	0.974900E+00	0.190360E+01	0.108820E+01	-0.178700E+00	0.145610E+01
9.800	0.642400E+00	0.524100E+00	0.982400E+00	0.190270E+01	0.107780E+01	-0.193400E+00	0.150090E+01
10.000	0.602400E+00	0.504900E+00	0.995700E+00	0.190270E+01	0.107270E+01	-0.218900E+00	0.152640E+01
10.200	0.563600E+00	0.486500E+00	0.101370E+01	0.190390E+01	0.107400E+01	-0.265400E+00	0.153160E+01
10.400	0.526300E+00	0.469100E+00	0.103570E+01	0.190680E+01	0.108120E+01	-0.357000E+00	0.151010E+01
10.600	0.490400E+00	0.452600E+00	0.106150E+01	0.191220E+01	0.109170E+01	-0.568200E+00	0.142630E+01
10.800	0.456300E+00	0.436900E+00	0.109090E+01	0.192150E+01	0.110160E+01	-0.103700E+01	0.109320E+01
11.000	0.423900E+00	0.422000E+00	0.112390E+01	0.193550E+01	0.110730E+01	-0.134490E+01	0.587700E+00
11.200	0.393300E+00	0.407600E+00	0.116040E+01	0.195400E+01	0.110690E+01	-0.137360E+01	0.355200E+00
11.400	0.364600E+00	0.393700E+00	0.120050E+01	0.197520E+01	0.110060E+01	-0.133830E+01	0.254100E+00
11.600	0.337700E+00	0.379900E+00	0.124410E+01	0.199680E+01	0.109060E+01	-0.128370E+01	0.200500E+00
11.800	0.312700E+00	0.366100E+00	0.129130E+01	0.201600E+01	0.107960E+01	-0.121940E+01	0.167100E+00
12.000	0.289500E+00	0.352100E+00	0.134170E+01	0.203090E+01	0.107030E+01	-0.114840E+01	0.143200E+00
12.200	0.268000E+00	0.337900E+00	0.139530E+01	0.203990E+01	0.106480E+01	-0.107160E+01	0.123800E+00
12.400	0.248100E+00	0.323400E+00	0.145180E+01	0.204250E+01	0.106420E+01	-0.989400E+00	0.106300E+00
12.600	0.229700E+00	0.308700E+00	0.151070E+01	0.203830E+01	0.106860E+01	-0.901500E+00	0.891000E-01
12.800	0.212800E+00	0.293700E+00	0.157200E+01	0.202710E+01	0.107700E+01	-0.807500E+00	0.718000E-01
13.000	0.197200E+00	0.278800E+00	0.163510E+01	0.200910E+01	0.108730E+01	-0.708100E+00	0.539000E-01
13.200	0.182900E+00	0.263900E+00	0.169970E+01	0.198460E+01	0.109640E+01	-0.605300E+00	0.354000E-01
13.400	0.169700E+00	0.249200E+00	0.176540E+01	0.195390E+01	0.110140E+01	-0.502400E+00	0.165000E-01
13.600	0.157500E+00	0.234900E+00	0.183190E+01	0.191750E+01	0.110040E+01	-0.403600E+00	-0.250000E-02
13.800	0.146300E+00	0.221000E+00	0.189860E+01	0.187560E+01	0.109280E+01	-0.311900E+00	-0.211000E-01
14.000	0.136000E+00	0.207700E+00	0.196510E+01	0.182860E+01	0.107950E+01	-0.229800E+00	-0.391000E-01
14.200	0.126500E+00	0.194900E+00	0.203100E+01	0.177690E+01	0.106200E+01	-0.157500E+00	-0.557000E-01
14.400	0.117700E+00	0.182800E+00	0.209590E+01	0.172100E+01	0.104170E+01	-0.943000E-01	-0.706000E-01
14.600	0.109600E+00	0.171400E+00	0.215940E+01	0.166120E+01	0.101980E+01	-0.388000E-01	-0.833000E-01
14.800	0.102200E+00	0.160700E+00	0.222100E+01	0.159810E+01	0.997200E+00	0.105000E-01	-0.932000E-01
15.000	0.953000E-01	0.150700E+00	0.228040E+01	0.153220E+01	0.974600E+00	0.552000E-01	-0.999000E-01
15.200	0.889000E-01	0.141300E+00	0.233730E+01	0.146420E+01	0.952600E+00	0.970000E-01	-0.102800E+00
15.400	0.831000E-01	0.132600E+00	0.239150E+01	0.139420E+01	0.930400E+00	0.136800E+00	-0.995000E-01
15.600	0.776000E-01	0.124500E+00	0.244270E+01	0.132320E+01	0.908800E+00	0.175800E+00	-0.878000E-01
15.800	0.726000E-01	0.116900E+00	0.249080E+01	0.125160E+01	0.887700E+00	0.214000E+00	-0.627000E-01
16.000	0.680000E-01	0.110000E+00	0.253570E+01	0.117990E+01	0.867000E+00	0.248200E+00	-0.167000E-01
16.200	0.637000E-01	0.103500E+00	0.257750E+01	0.110870E+01	0.846700E+00	0.269000E+00	0.523000E-01
16.400	0.597000E-01	0.975000E-01	0.261610E+01	0.103850E+01	0.826500E+00	0.270600E+00	0.127700E+00
16.600	0.560000E-01	0.919000E-01	0.265180E+01	0.969700E+00	0.806500E+00	0.261500E+00	0.191700E+00
16.800	0.526000E-01	0.868000E-01	0.268440E+01	0.902700E+00	0.786600E+00	0.251100E+00	0.243500E+00
17.000	0.495000E-01	0.820000E-01	0.271440E+01	0.837800E+00	0.766500E+00	0.241800E+00	0.287500E+00
17.200	0.465000E-01	0.776000E-01	0.274170E+01	0.775400E+00	0.746300E+00	0.233800E+00	0.327000E+00
17.400	0.438000E-01	0.735000E-01	0.276660E+01	0.715600E+00	0.725700E+00	0.226800E+00	0.363900E+00
17.600	0.413000E-01	0.697000E-01	0.278940E+01	0.658800E+00	0.704900E+00	0.220300E+00	0.399100E+00
17.800	0.389000E-01	0.662000E-01	0.281000E+01	0.605000E+00	0.683700E+00	0.214200E+00	0.433100E+00
18.000	0.367000E-01	0.629000E-01	0.282880E+01	0.554400E+00	0.662200E+00	0.208400E+00	0.466000E+00
18.200	0.347000E-01	0.598000E-01	0.284590E+01	0.507000E+00	0.640400E+00	0.202800E+00	0.497800E+00
18.400	0.328000E-01	0.570000E-01	0.286150E+01	0.462900E+00	0.618400E+00	0.197300E+00	0.528300E+00

18.600	0.310000E-01	0.543000E-01	0.287570E+01	0.422100E+00	0.596200E+00	0.191900E+00	0.557300E+00
18.800	0.294000E-01	0.518000E-01	0.288870E+01	0.384400E+00	0.573900E+00	0.186600E+00	0.584700E+00
19.000	0.278000E-01	0.495000E-01	0.290050E+01	0.349600E+00	0.550700E+00	0.180400E+00	0.608400E+00
19.200	0.264000E-01	0.473000E-01	0.291130E+01	0.318000E+00	0.528500E+00	0.175200E+00	0.631700E+00
19.400	0.250000E-01	0.453000E-01	0.292130E+01	0.289200E+00	0.506700E+00	0.170200E+00	0.652800E+00
19.600	0.237000E-01	0.433000E-01	0.293040E+01	0.263000E+00	0.485200E+00	0.165400E+00	0.671700E+00
19.800	0.225000E-01	0.415000E-01	0.293870E+01	0.239300E+00	0.464600E+00	0.160900E+00	0.687700E+00
20.000	0.214000E-01	0.398000E-01	0.294640E+01	0.217900E+00	0.444100E+00	0.156400E+00	0.702000E+00
20.200	0.203000E-01	0.382000E-01	0.295360E+01	0.198500E+00	0.424300E+00	0.152000E+00	0.714000E+00
20.400	0.193000E-01	0.367000E-01	0.296020E+01	0.181000E+00	0.405100E+00	0.147900E+00	0.723700E+00
20.600	0.184000E-01	0.353000E-01	0.296630E+01	0.165200E+00	0.386600E+00	0.143900E+00	0.731300E+00
20.800	0.175000E-01	0.339000E-01	0.297200E+01	0.151000E+00	0.368800E+00	0.140100E+00	0.736900E+00
21.200	0.158000E-01	0.314000E-01	0.298220E+01	0.126700E+00	0.335400E+00	0.133000E+00	0.741800E+00
21.400	0.151000E-01	0.303000E-01	0.298680E+01	0.116300E+00	0.319800E+00	0.129800E+00	0.740300E+00
21.600	0.143000E-01	0.291000E-01	0.299110E+01	0.107000E+00	0.304900E+00	0.126700E+00	0.732800E+00
22.000	0.130000E-01	0.271000E-01	0.299890E+01	0.909000E-01	0.277200E+00	0.121100E+00	0.301200E+00
22.200	0.123000E-01	0.261000E-01	0.300250E+01	0.840000E-01	0.264300E+00	0.118600E+00	0.109800E+00
22.400	0.117000E-01	0.252000E-01	0.300590E+01	0.778000E-01	0.252000E+00	0.116200E+00	0.581000E-01
23.600	0.870000E-02	0.206000E-01	0.302230E+01	0.510000E-01	0.190400E+00	0.105400E+00	0.250000E-02
24.000	0.780000E-02	0.192000E-01	0.302670E+01	0.449000E-01	0.173600E+00	0.102700E+00	0.190000E-02
24.200	0.740000E-02	0.186000E-01	0.302870E+01	0.422000E-01	0.165800E+00	0.101500E+00	0.350000E-02
24.400	0.700000E-02	0.180000E-01	0.303070E+01	0.398000E-01	0.158400E+00	0.100300E+00	0.480000E-02
24.800	0.630000E-02	0.169000E-01	0.303430E+01	0.355000E-01	0.144700E+00	0.982000E-01	0.670000E-02
25.000	0.600000E-02	0.164000E-01	0.303590E+01	0.336000E-01	0.138400E+00	0.972000E-01	0.730000E-02
25.400	0.530000E-02	0.154000E-01	0.303900E+01	0.302000E-01	0.126600E+00	0.951000E-01	0.850000E-02
25.600	0.510000E-02	0.149000E-01	0.304050E+01	0.287000E-01	0.121300E+00	0.941000E-01	0.870000E-02
25.800	0.480000E-02	0.145000E-01	0.304190E+01	0.273000E-01	0.116200E+00	0.931000E-01	0.880000E-02
26.000	0.450000E-02	0.141000E-01	0.304320E+01	0.261000E-01	0.111400E+00	0.921000E-01	0.880000E-02
26.400	0.400000E-02	0.133000E-01	0.304570E+01	0.237000E-01	0.102700E+00	0.899000E-01	0.850000E-02
26.600	0.380000E-02	0.129000E-01	0.304690E+01	0.227000E-01	0.988000E-01	0.888000E-01	0.830000E-02
26.800	0.360000E-02	0.125000E-01	0.304800E+01	0.217000E-01	0.951000E-01	0.876000E-01	0.790000E-02
27.000	0.340000E-02	0.121000E-01	0.304910E+01	0.208000E-01	0.916000E-01	0.862000E-01	0.790000E-02
27.200	0.320000E-02	0.118000E-01	0.305020E+01	0.199000E-01	0.884000E-01	0.850000E-01	0.740000E-02
27.400	0.300000E-02	0.114000E-01	0.305120E+01	0.191000E-01	0.854000E-01	0.836000E-01	0.700000E-02
27.600	0.280000E-02	0.111000E-01	0.305220E+01	0.183000E-01	0.826000E-01	0.823000E-01	0.640000E-02
28.000	0.250000E-02	0.105000E-01	0.305410E+01	0.169000E-01	0.777000E-01	0.796000E-01	0.510000E-02
28.200	0.230000E-02	0.102000E-01	0.305490E+01	0.162000E-01	0.755000E-01	0.781000E-01	0.440000E-02
28.600	0.200000E-02	0.970000E-02	0.305660E+01	0.150000E-01	0.716000E-01	0.752000E-01	0.290000E-02
28.800	0.190000E-02	0.940000E-02	0.305750E+01	0.144000E-01	0.699000E-01	0.737000E-01	0.220000E-02
29.400	0.160000E-02	0.870000E-02	0.305980E+01	0.129000E-01	0.655000E-01	0.692000E-01	0.400000E-03
30.200	0.120000E-02	0.780000E-02	0.306250E+01	0.112000E-01	0.611000E-01	0.630000E-01	0.330000E-02
30.400	0.110000E-02	0.760000E-02	0.306320E+01	0.108000E-01	0.602000E-01	0.614000E-01	0.400000E-02

Table 7: $(3)^3\Sigma^+-(1-7)^3\Pi$ transitions

	R	3-1	3-2	3-3	3-4	3-5	3-6	3-7
1	3.000	0.205030E+01	-0.117120E+01	-0.631600E+00	0.545640E+01	-0.186500E+01	-0.138700E+01	-0.242700E+00
2	3.200	0.201650E+01	-0.128470E+01	-0.636400E+00	0.538260E+01	-0.187580E+01	-0.140470E+01	-0.234100E+00
3	3.400	0.200230E+01	-0.135900E+01	-0.662300E+00	0.530750E+01	-0.180350E+01	-0.143120E+01	-0.241400E+00
4	3.800	0.202910E+01	-0.137990E+01	-0.834700E+00	0.507290E+01	-0.150020E+01	-0.157000E+01	-0.312800E+00
5	4.000	0.205890E+01	-0.131250E+01	-0.117360E+01	0.482530E+01	-0.131210E+01	-0.170380E+01	-0.368300E+00
6	4.200	0.208400E+01	-0.119110E+01	-0.309930E+01	0.357220E+01	-0.113590E+01	-0.187870E+01	-0.423800E+00
7	4.400	0.209470E+01	-0.103500E+01	-0.441210E+01	0.629900E+00	-0.100100E+01	-0.206990E+01	-0.468800E+00
8	4.600	0.209460E+01	-0.877600E+00	-0.420270E+01	0.133000E+00	-0.925700E+00	-0.224510E+01	-0.499500E+00
9	4.800	0.209580E+01	-0.742800E+00	-0.401730E+01	0.482000E-01	-0.911100E+00	-0.238680E+01	-0.519300E+00
10	5.200	0.212740E+01	-0.551000E+00	-0.384350E+01	0.287400E+00	-0.102420E+01	-0.256150E+01	-0.543900E+00
11	5.400	0.215770E+01	-0.481800E+00	-0.382790E+01	0.432100E+00	-0.112830E+01	-0.259490E+01	-0.553100E+00
12	5.600	0.219490E+01	-0.422400E+00	-0.383930E+01	0.619300E+00	-0.124590E+01	-0.258910E+01	-0.561700E+00
13	5.800	0.223650E+01	-0.369000E+00	-0.386630E+01	0.846400E+00	-0.136490E+01	-0.254110E+01	-0.570300E+00
14	6.000	0.228070E+01	-0.319100E+00	-0.390070E+01	0.107620E+01	-0.149040E+01	-0.245190E+01	-0.578900E+00
15	6.200	0.232620E+01	-0.271200E+00	-0.393710E+01	0.125100E+01	-0.164650E+01	-0.233100E+01	-0.587600E+00
16	6.400	0.237150E+01	-0.224500E+00	-0.397120E+01	0.133910E+01	-0.184040E+01	-0.219530E+01	-0.596300E+00
17	6.600	0.241590E+01	-0.178500E+00	-0.399980E+01	0.135520E+01	-0.204470E+01	-0.206220E+01	-0.605000E+00
18	6.800	0.245820E+01	-0.132900E+00	-0.401990E+01	0.133820E+01	-0.222720E+01	-0.194440E+01	-0.613100E+00
19	7.000	0.249770E+01	-0.875000E-01	-0.402810E+01	0.132360E+01	-0.237270E+01	-0.184890E+01	-0.620300E+00
20	7.200	0.253370E+01	-0.420000E-01	-0.401930E+01	0.133570E+01	-0.248100E+01	-0.177740E+01	-0.624700E+00
21	7.400	0.256530E+01	-0.370000E-02	-0.398680E+01	0.139620E+01	-0.255680E+01	-0.172980E+01	-0.628500E+00
22	7.600	0.259160E+01	0.497000E-01	-0.391320E+01	0.153600E+01	-0.260590E+01	-0.170380E+01	-0.629500E+00
23	7.800	0.261170E+01	0.962000E-01	-0.375160E+01	0.182560E+01	-0.263260E+01	-0.169690E+01	-0.626500E+00
24	8.000	0.262460E+01	0.143100E+00	-0.333120E+01	0.243540E+01	-0.263970E+01	-0.170680E+01	-0.617900E+00
25	8.200	0.262880E+01	0.190500E+00	-0.221120E+01	0.341030E+01	-0.262860E+01	-0.173110E+01	-0.601000E+00
26	8.400	0.262290E+01	0.238300E+00	-0.955100E+00	0.386530E+01	-0.260000E+01	-0.176890E+01	-0.567600E+00
27	8.600	0.260460E+01	0.286400E+00	-0.321200E+00	0.386170E+01	-0.255310E+01	-0.181220E+01	-0.501700E+00
28	8.800	0.257110E+01	0.334300E+00	-0.570000E-02	0.373980E+01	-0.248700E+01	-0.186210E+01	-0.346800E+00
29	9.000	0.251880E+01	0.381500E+00	0.178000E+00	0.356650E+01	-0.240010E+01	-0.191220E+01	0.115000E-01
30	9.200	0.244300E+01	0.426800E+00	0.297000E+00	0.334970E+01	-0.229040E+01	-0.195610E+01	0.367300E+00
31	9.400	0.233860E+01	0.468400E+00	0.377400E+00	0.308800E+01	-0.215700E+01	-0.198440E+01	0.546200E+00
32	9.600	0.220120E+01	0.503800E+00	0.429500E+00	0.278140E+01	-0.200030E+01	-0.198700E+01	0.620500E+00
33	9.800	0.203030E+01	0.530200E+00	0.458200E+00	0.243760E+01	-0.182400E+01	-0.195440E+01	0.622300E+00
34	10.000	0.183290E+01	0.545200E+00	0.467800E+00	0.207570E+01	-0.164100E+01	-0.188350E+01	0.565800E+00
35	10.200	0.162360E+01	0.548600E+00	0.463800E+00	0.172290E+01	-0.146220E+01	-0.178130E+01	0.459600E+00
36	10.400	0.141980E+01	0.542300E+00	0.453200E+00	0.140420E+01	-0.130200E+01	-0.166450E+01	0.297000E+00
37	10.600	0.123480E+01	0.529500E+00	0.441700E+00	0.113280E+01	-0.116800E+01	-0.153880E+01	-0.177000E-01
38	10.800	0.107440E+01	0.512800E+00	0.433100E+00	0.909500E+00	-0.106100E+01	-0.129240E+01	-0.528200E+00
39	11.000	0.938800E+00	0.494000E+00	0.428400E+00	0.727900E+00	-0.977400E+00	-0.875900E+00	-0.917400E+00
40	11.200	0.825300E+00	0.473900E+00	0.427300E+00	0.580300E+00	-0.911500E+00	-0.635600E+00	-0.966300E+00
41	11.400	0.730300E+00	0.453000E+00	0.429200E+00	0.459700E+00	-0.857800E+00	-0.501900E+00	-0.932700E+00
42	11.600	0.650400E+00	0.431400E+00	0.432900E+00	0.361000E+00	-0.811700E+00	-0.412200E+00	-0.882500E+00
43	11.800	0.582700E+00	0.409400E+00	0.437400E+00	0.280400E+00	-0.770600E+00	-0.343600E+00	-0.831000E+00
44	12.000	0.525000E+00	0.386900E+00	0.442100E+00	0.215100E+00	-0.732400E+00	-0.286800E+00	-0.782100E+00
45	12.200	0.475400E+00	0.364300E+00	0.446300E+00	0.162600E+00	-0.696100E+00	-0.237300E+00	-0.736600E+00
46	12.400	0.432600E+00	0.341700E+00	0.449500E+00	0.120900E+00	-0.661200E+00	-0.192500E+00	-0.694600E+00
47	12.600	0.395300E+00	0.319500E+00	0.451600E+00	0.885000E-01	-0.626900E+00	-0.151600E+00	-0.656100E+00
48	12.800	0.362700E+00	0.297900E+00	0.452300E+00	0.636000E-01	-0.593200E+00	-0.112800E+00	-0.620300E+00
49	13.000	0.334100E+00	0.277000E+00	0.451700E+00	0.450000E-01	-0.559700E+00	-0.773000E-01	-0.587300E+00
50	13.200	0.308900E+00	0.257000E+00	0.449700E+00	0.317000E-01	-0.526100E+00	-0.461000E-01	-0.556800E+00
51	13.400	0.286500E+00	0.238200E+00	0.446400E+00	0.226000E-01	-0.492700E+00	-0.207000E-01	-0.528900E+00
52	13.600	0.266600E+00	0.220500E+00	0.442000E+00	0.172000E-01	-0.460000E+00	-0.210000E-02	-0.503200E+00
53	13.800	0.248800E+00	0.204100E+00	0.436500E+00	0.145000E-01	-0.428700E+00	0.860000E-02	-0.480100E+00
54	14.000	0.232900E+00	0.188800E+00	0.430200E+00	0.143000E-01	-0.399200E+00	0.117000E-01	-0.459300E+00
55	14.200	0.218500E+00	0.174800E+00	0.423000E+00	0.159000E-01	-0.372100E+00	0.800000E-02	-0.440900E+00
56	14.400	0.205400E+00	0.161900E+00	0.415300E+00	0.190000E-01	-0.347500E+00	-0.150000E-02	-0.425100E+00
57	14.600	0.193600E+00	0.150100E+00	0.407000E+00	0.232000E-01	-0.325200E+00	-0.156000E-01	-0.412100E+00
58	14.800	0.182800E+00	0.139400E+00	0.398300E+00	0.282000E-01	-0.305000E+00	-0.329000E-01	-0.402000E+00
59	15.000	0.172900E+00	0.129600E+00	0.389300E+00	0.338000E-01	-0.286700E+00	-0.522000E-01	-0.395100E+00
60	15.200	0.163800E+00	0.120700E+00	0.380000E+00	0.396000E-01	-0.270100E+00	-0.714000E-01	-0.392200E+00
	15.400	0.155500E+00	0.112500E+00	0.370600E+00	0.457000E-01	-0.254800E+00	-0.885000E-01	-0.394100E+00
	15.600	0.147700E+00	0.105100E+00	0.361100E+00	0.517000E-01	-0.240600E+00	-0.992000E-01	-0.402600E+00
	15.800	0.140500E+00	0.984000E-01	0.351500E+00	0.577000E-01	-0.227400E+00	-0.962000E-01	-0.419800E+00
	16.000	0.133900E+00	0.923000E-01	0.342000E+00	0.634000E-01	-0.214900E+00	-0.684000E-01	-0.446700E+00
	16.200	0.127600E+00	0.867000E-01	0.332600E+00	0.689000E-01	-0.203100E+00	-0.112000E-01	-0.478300E+00
	16.400	0.121800E+00	0.815000E-01	0.323200E+00	0.741000E-01	-0.191900E+00	0.545000E-01	-0.506800E+00
	16.600	0.116300E+00	0.769000E-01	0.314100E+00	0.791000E-01	-0.180600E+00	0.103200E+00	-0.535200E+00
	16.800	0.111200E+00	0.726000E-01	0.305100E+00	0.834000E-01	-0.170300E+00	0.133800E+00	-0.569100E+00
	17.000	0.106300E+00	0.686000E-01	0.296200E+00	0.873000E-01	-0.160300E+00	0.151800E+00	-0.609100E+00
	17.200	0.101700E+00	0.650000E-01	0.287600E+00	0.907000E-01	-0.150700E+00	0.162500E+00	-0.654200E+00
	17.400	0.974000E-01	0.617000E-01	0.279200E+00	0.936000E-01	-0.141400E+00	0.168800E+00	-0.703100E+00
	17.600	0.934000E-01	0.586000E-01	0.271100E+00	0.961000E-01	-0.132500E+00	0.172200E+00	-0.755000E+00
	17.800	0.895000E-01	0.558000E-01	0.263200E+00	0.980000E-01	-0.123800E+00	0.173800E+00	-0.809200E+00
	18.000	0.858000E-01	0.531000E-01	0.255500E+00	0.995000E-01	-0.115600E+00	0.174200E+00	-0.864600E+00
	18.200	0.824000E-01	0.507000E-01	0.248100E+00	0.100500E+00	-0.107800E+00	0.173800E+00	-0.921100E+00
	18.400	0.791000E-01	0.484000E-01	0.240900E+00	0.101100E+00	-0.100300E+00	0.172700E+00	-0.978000E+00

18.600	0.759000E-01	0.462000E-01	0.233900E+00	0.101300E+00	-0.932000E-01	0.171200E+00	-0.103460E+01
18.800	0.729000E-01	0.443000E-01	0.227200E+00	0.101000E+00	-0.865000E-01	0.169400E+00	-0.109090E+01
19.000	0.701000E-01	0.424000E-01	0.220600E+00	0.100200E+00	-0.813000E-01	0.168600E+00	-0.114320E+01
19.200	0.674000E-01	0.406000E-01	0.214400E+00	0.994000E-01	-0.753000E-01	0.166200E+00	-0.119730E+01
19.400	0.648000E-01	0.390000E-01	0.208300E+00	0.983000E-01	-0.697000E-01	0.163700E+00	-0.124900E+01
19.600	0.623000E-01	0.374000E-01	0.202500E+00	0.969000E-01	-0.645000E-01	0.161100E+00	-0.129890E+01
19.800	0.600000E-01	0.360000E-01	0.196800E+00	0.953000E-01	-0.603000E-01	0.158800E+00	-0.134700E+01
20.000	0.578000E-01	0.346000E-01	0.191300E+00	0.936000E-01	-0.557000E-01	0.156100E+00	-0.139270E+01
20.200	0.556000E-01	0.333000E-01	0.186100E+00	0.918000E-01	-0.515000E-01	0.153400E+00	-0.143620E+01
20.400	0.536000E-01	0.321000E-01	0.181000E+00	0.899000E-01	-0.475000E-01	0.150600E+00	-0.147750E+01
20.600	0.516000E-01	0.309000E-01	0.176100E+00	0.879000E-01	-0.438000E-01	0.147800E+00	-0.151650E+01
20.800	0.498000E-01	0.298000E-01	0.171300E+00	0.859000E-01	-0.404000E-01	0.145000E+00	-0.155320E+01
21.200	0.463000E-01	0.277000E-01	0.162300E+00	0.817000E-01	-0.341000E-01	0.139500E+00	-0.161840E+01
21.400	0.446000E-01	0.267000E-01	0.158000E+00	0.796000E-01	-0.312000E-01	0.136700E+00	-0.164450E+01
21.600	0.431000E-01	0.258000E-01	0.153800E+00	0.775000E-01	-0.285000E-01	0.134000E+00	-0.165690E+01
22.000	0.402000E-01	0.241000E-01	0.145900E+00	0.733000E-01	-0.235000E-01	0.128600E+00	-0.688500E+00
22.200	0.388000E-01	0.233000E-01	0.142200E+00	0.713000E-01	-0.211000E-01	0.126000E+00	-0.244600E+00
22.400	0.375000E-01	0.225000E-01	0.138500E+00	0.693000E-01	-0.189000E-01	0.123400E+00	-0.127400E+00
23.600	0.307000E-01	0.185000E-01	0.119000E+00	0.582000E-01	-0.730000E-02	0.109200E+00	-0.146000E-01
24.000	0.288000E-01	0.173000E-01	0.113300E+00	0.549000E-01	-0.380000E-02	0.104800E+00	-0.880000E-02
24.200	0.279000E-01	0.168000E-01	0.110600E+00	0.533000E-01	-0.210000E-02	0.102700E+00	-0.690000E-02
24.400	0.270000E-01	0.162000E-01	0.107900E+00	0.518000E-01	0.400000E-03	0.100500E+00	-0.540000E-02
24.800	0.254000E-01	0.153000E-01	0.102900E+00	0.488000E-01	0.270000E-02	0.965000E-01	-0.320000E-02
25.000	0.246000E-01	0.148000E-01	0.100500E+00	0.475000E-01	0.420000E-02	0.945000E-01	-0.230000E-02
25.400	0.232000E-01	0.139000E-01	0.959000E-01	0.448000E-01	0.710000E-02	0.905000E-01	-0.110000E-02
25.600	0.225000E-01	0.135000E-01	0.937000E-01	0.436000E-01	0.840000E-02	0.886000E-01	-0.300000E-03
25.800	0.218000E-01	0.131000E-01	0.916000E-01	0.424000E-01	0.960000E-02	0.867000E-01	0.500000E-03
26.000	0.212000E-01	0.127000E-01	0.895000E-01	0.412000E-01	0.107000E-01	0.849000E-01	0.130000E-02
26.400	0.200000E-01	0.119000E-01	0.855000E-01	0.390000E-01	0.127000E-01	0.814000E-01	0.280000E-02
26.600	0.194000E-01	0.116000E-01	0.836000E-01	0.379000E-01	0.135000E-01	0.797000E-01	0.360000E-02
26.800	0.189000E-01	0.112000E-01	0.818000E-01	0.369000E-01	0.143000E-01	0.781000E-01	0.450000E-02
27.000	0.183000E-01	0.109000E-01	0.800000E-01	0.359000E-01	0.149000E-01	0.765000E-01	0.530000E-02
27.200	0.178000E-01	0.106000E-01	0.783000E-01	0.349000E-01	0.155000E-01	0.750000E-01	0.610000E-02
27.400	0.173000E-01	0.103000E-01	0.766000E-01	0.340000E-01	0.161000E-01	0.733000E-01	0.680000E-02
27.600	0.169000E-01	0.100000E-01	0.750000E-01	0.331000E-01	0.166000E-01	0.718000E-01	0.760000E-02
28.000	0.160000E-01	0.940000E-02	0.718000E-01	0.314000E-01	0.173000E-01	0.689000E-01	0.910000E-02
28.200	0.155000E-01	0.910000E-02	0.703000E-01	0.306000E-01	0.175000E-01	0.674000E-01	0.990000E-02
28.600	0.147000E-01	0.860000E-02	0.675000E-01	0.290000E-01	0.178000E-01	0.647000E-01	0.112000E-01
28.800	0.143000E-01	0.840000E-02	0.661000E-01	0.283000E-01	0.179000E-01	0.633000E-01	0.118000E-01
29.400	0.132000E-01	0.770000E-02	0.622000E-01	0.262000E-01	0.179000E-01	0.596000E-01	0.135000E-01
30.200	0.119000E-01	0.690000E-02	0.574000E-01	0.238000E-01	0.176000E-01	0.549000E-01	0.148000E-01
30.400	0.116000E-01	0.670000E-02	0.563000E-01	0.232000E-01	0.174000E-01	0.537000E-01	0.150000E-01
31.400	0.103000E-01	0.580000E-02	0.511000E-01	0.206000E-01	0.165000E-01	0.484000E-01	0.153000E-01
31.600	0.100000E-01	0.570000E-02	0.502000E-01	0.201000E-01	0.162000E-01	0.474000E-01	0.152000E-01
31.800	0.980000E-02	0.550000E-02	0.492000E-01	0.197000E-01	0.160000E-01	0.465000E-01	0.151000E-01

Table 8: $(4)^3\Sigma^+-(1-7)^3\Pi$ transitions

	R	4-1	4-2	4-3	4-4	4-5	4-6	4-7
1	3.000	-0.336000E-01	-0.128000E+01	0.503500E+00	-0.874800E+00	-0.511790E+01	0.154720E+01	-0.103000E+01
2	3.200	-0.679000E-01	-0.137510E+01	0.535600E+00	-0.821500E+00	-0.521490E+01	0.144240E+01	-0.113070E+01
3	3.400	-0.101400E+00	-0.148080E+01	0.564300E+00	-0.702300E+00	-0.532540E+01	0.134860E+01	-0.116590E+01
4	3.800	-0.171800E+00	-0.172690E+01	0.617500E+00	-0.317400E+00	-0.556660E+01	0.117310E+01	-0.109640E+01
5	4.000	-0.209500E+00	-0.186290E+01	0.656000E+00	-0.997000E-01	-0.567780E+01	0.110090E+01	-0.100930E+01
6	4.200	-0.248100E+00	-0.199960E+01	0.731500E+00	0.166500E+00	-0.576690E+01	0.105440E+01	-0.899300E+00
7	4.400	-0.286000E+00	-0.212950E+01	0.742700E+00	0.567700E+00	-0.582440E+01	0.104730E+01	-0.778600E+00
8	4.600	-0.322100E+00	-0.224550E+01	0.966900E+00	0.649900E+00	-0.584530E+01	0.108860E+01	-0.655700E+00
9	4.800	-0.356100E+00	-0.234340E+01	0.120900E+01	0.718400E+00	-0.582700E+01	0.118380E+01	-0.540000E+00
10	5.200	-0.419400E+00	-0.247920E+01	0.164080E+01	0.913900E+00	-0.566800E+01	0.154020E+01	-0.337600E+00
11	5.400	-0.450300E+00	-0.251870E+01	0.182600E+01	0.105260E+01	-0.551880E+01	0.179880E+01	-0.253300E+00
12	5.600	-0.481700E+00	-0.254150E+01	0.199410E+01	0.120400E+01	-0.531760E+01	0.210250E+01	-0.180300E+00
13	5.800	-0.514200E+00	-0.254980E+01	0.214860E+01	0.131750E+01	-0.507270E+01	0.243570E+01	-0.118400E+00
14	6.000	-0.548600E+00	-0.254550E+01	0.229250E+01	0.131210E+01	-0.481190E+01	0.277700E+01	-0.665000E-01
15	6.200	-0.585100E+00	-0.253030E+01	0.242870E+01	0.114430E+01	-0.455800E+01	0.310420E+01	-0.242000E-01
16	6.400	-0.624300E+00	-0.250570E+01	0.255940E+01	0.865300E+00	-0.430470E+01	0.339580E+01	0.920000E-02
17	6.600	-0.666400E+00	-0.247270E+01	0.268700E+01	0.576100E+00	-0.404260E+01	0.363240E+01	0.362000E-01
18	6.800	-0.711900E+00	-0.243230E+01	0.281310E+01	0.345700E+00	-0.378270E+01	0.380280E+01	0.544000E-01
19	7.000	-0.761300E+00	-0.238510E+01	0.293940E+01	0.196500E+00	-0.354490E+01	0.390820E+01	0.665000E-01
20	7.200	-0.815000E+00	-0.233170E+01	0.306710E+01	0.127100E+00	-0.334200E+01	0.395630E+01	0.728000E-01
21	7.400	-0.873700E+00	-0.227200E+01	0.319680E+01	0.137400E+00	-0.317740E+01	0.395760E+01	0.752000E-01
22	7.600	-0.937900E+00	-0.220630E+01	0.332510E+01	0.246400E+00	-0.304950E+01	0.391990E+01	0.745000E-01
23	7.800	-0.100840E+01	-0.213470E+01	0.343390E+01	0.524500E+00	-0.295410E+01	0.384910E+01	0.717000E-01
24	8.000	-0.108630E+01	-0.205690E+01	0.342220E+01	0.117820E+01	-0.288650E+01	0.374860E+01	0.695000E-01
25	8.200	-0.117260E+01	-0.197270E+01	0.288740E+01	0.242880E+01	-0.284180E+01	0.361940E+01	0.705000E-01
26	8.400	-0.126910E+01	-0.188110E+01	0.200170E+01	0.338930E+01	-0.281600E+01	0.345980E+01	0.844000E-01
27	8.600	-0.137780E+01	-0.178070E+01	0.147820E+01	0.383600E+01	-0.280400E+01	0.326470E+01	0.133500E+00
28	8.800	-0.150180E+01	-0.166870E+01	0.118050E+01	0.413320E+01	-0.280050E+01	0.302480E+01	0.288100E+00
29	9.000	-0.164450E+01	-0.154000E+01	0.965600E+00	0.439330E+01	-0.279750E+01	0.272190E+01	0.671100E+00
30	9.200	-0.180910E+01	-0.138490E+01	0.766500E+00	0.463920E+01	-0.278130E+01	0.232440E+01	0.108060E+01
31	9.400	-0.199280E+01	-0.118750E+01	0.543400E+01	0.484990E+01	-0.272650E+01	0.178520E+01	0.138900E+01
32	9.600	-0.217390E+01	-0.933700E+00	0.274400E+00	0.495450E+01	-0.259580E+01	0.106770E+01	0.163610E+01
33	9.800	-0.231210E+01	-0.641900E+00	-0.198000E-01	0.487330E+01	-0.237630E+01	0.231800E+00	0.179580E+01
34	10.000	-0.239190E+01	-0.370800E+00	-0.282100E+00	0.463800E+01	-0.212380E+01	0.560900E+00	0.185550E+01
35	10.200	-0.243090E+01	-0.158700E+00	-0.483000E+00	0.434920E+01	-0.189830E+01	0.122100E+01	0.183260E+01
36	10.400	-0.244130E+01	0.340000E-02	-0.629900E+00	0.405420E+01	-0.171220E+01	0.177970E+01	0.170560E+01
37	10.600	-0.242560E+01	0.108600E+00	-0.737800E+00	0.375550E+01	-0.155990E+01	0.232920E+01	0.132250E+01
38	10.800	-0.238540E+01	0.188900E+00	-0.817700E+00	0.344750E+01	-0.143820E+01	0.282720E+01	0.183900E+00
39	11.000	-0.232330E+01	0.245700E+00	-0.876700E+00	0.312740E+01	-0.134550E+01	0.270940E+01	0.112010E+01
40	11.200	-0.224200E+01	0.284200E+00	-0.918700E+00	0.279620E+01	-0.127710E+01	0.245650E+01	0.168690E+01
41	11.400	-0.214320E+01	0.308500E+00	-0.946400E+00	0.245550E+01	-0.122370E+01	0.224760E+01	0.195970E+01
42	11.600	-0.202770E+01	0.321500E+01	-0.960900E+00	0.210780E+01	-0.117410E+01	0.204530E+01	0.211560E+01
43	11.800	-0.189480E+01	0.325600E+00	-0.963000E+00	0.175450E+01	-0.111660E+01	0.182760E+01	0.220880E+01
44	12.000	-0.174330E+01	0.323100E+00	-0.952900E+00	0.139570E+01	-0.104020E+01	0.158390E+01	0.226030E+01
45	12.200	-0.157110E+01	0.315500E+00	-0.930500E+00	0.103050E+01	-0.934600E+00	0.131010E+01	0.227910E+01
46	12.400	-0.137630E+01	0.304700E+00	-0.895700E+00	0.657800E+00	-0.789200E+00	0.100700E+01	0.226990E+01
47	12.600	-0.115800E+01	0.291800E+00	-0.848400E+00	0.277600E+00	-0.594600E+00	0.681800E+00	0.223430E+01
48	12.800	-0.917900E+00	0.277900E+00	-0.789300E+00	0.106200E+00	-0.342700E+00	0.347800E+00	0.217270E+01
49	13.000	-0.661000E+00	0.263500E+00	-0.719700E+00	0.486700E+00	-0.328000E-01	-0.266000E-01	0.208630E+01
50	13.200	-0.396200E+00	0.249200E+00	-0.642200E+00	0.853500E+00	-0.326300E+00	-0.256700E+00	0.197780E+01
51	13.400	-0.134600E+00	0.235400E+00	-0.560500E+00	0.119570E+01	0.715800E+00	-0.481700E+00	0.185240E+01
52	13.600	0.113600E+00	0.222200E+00	-0.478600E+00	0.150520E+01	0.111070E+01	-0.638500E+00	0.171700E+01
53	13.800	0.340900E+00	0.209900E+00	-0.399800E+00	0.177850E+01	0.148750E+01	-0.730700E+00	0.157840E+01
54	14.000	0.543800E+00	0.198600E+00	-0.326600E+00	0.201700E+01	0.182930E+01	-0.770800E+00	0.144200E+01
55	14.200	0.722100E+00	0.188500E+00	-0.260600E+00	0.222520E+01	0.212790E+01	-0.774200E+00	0.131170E+01
56	14.400	0.877500E+00	0.179400E+00	-0.201900E+00	0.240880E+01	0.238180E+01	-0.754900E+00	0.118910E+01
57	14.600	0.101270E+01	0.171400E+00	-0.150800E+00	0.257350E+01	0.259340E+01	-0.723600E+00	0.107500E+01
58	14.800	0.113080E+01	0.164400E+00	-0.106600E+00	0.272450E+01	0.276700E+01	-0.687700E+00	0.968900E+00
59	15.000	0.123450E+01	0.158300E+00	-0.690000E-01	0.286610E+01	0.290720E+01	-0.652500E+00	0.869400E+00
60	15.200	0.132620E+01	0.152900E+00	-0.373000E-01	0.300130E+01	0.301870E+01	-0.621200E+00	0.774200E+00
	15.400	0.140790E+01	0.148100E+00	-0.107000E-01	0.313310E+01	0.310410E+01	-0.597000E+00	0.681400E+00
	15.600	0.148140E+01	0.143900E+00	0.112000E-01	0.326340E+01	0.316680E+01	-0.582700E+00	0.585900E+00
	15.800	0.154800E+01	0.140100E+00	0.290000E-01	0.339330E+01	0.320920E+01	-0.580500E+00	0.479900E+00
	16.000	0.160890E+01	0.136700E+00	0.433000E-01	0.352380E+01	0.323300E+01	-0.587700E+00	0.353800E+00
	16.200	0.166500E+01	0.133600E+00	0.546000E-01	0.365520E+01	0.323990E+01	-0.587700E+00	0.210600E+00
	16.400	0.171690E+01	0.130700E+00	0.633000E-01	0.378790E+01	0.323080E+01	-0.560800E+00	0.860000E-01
	16.600	0.176530E+01	0.128000E+00	0.699000E-01	0.392190E+01	0.320650E+01	-0.515500E+00	0.720000E-02
	16.800	0.181070E+01	0.125500E+00	0.746000E-01	0.405640E+01	0.316890E+01	-0.465900E+00	-0.333000E-01
	17.000	0.185340E+01	0.123100E+00	0.777000E-01	0.419110E+01	0.311840E+01	-0.419100E+00	-0.514000E-01
	17.200	0.189380E+01	0.120800E+00	0.796000E-01	0.432540E+01	0.305600E+01	-0.376400E+00	-0.571000E-01
	17.400	0.193210E+01	0.118600E+00	0.805000E-01	0.445840E+01	0.298290E+01	-0.337600E+00	-0.560000E-01
	17.600	0.196860E+01	0.116400E+00	0.805000E-01	0.458920E+01	0.290010E+01	-0.302100E+00	-0.509000E-01
	17.800	0.200330E+01	0.114300E+00	0.798000E-01	0.471700E+01	0.280890E+01	-0.269600E+00	-0.438000E-01
	18.000	0.203660E+01	0.112200E+00	0.787000E-01	0.484090E+01	0.271080E+01	-0.239700E+00	-0.354000E-01
	18.200	0.206840E+01	0.110100E+00	0.771000E-01	0.496020E+01	0.260730E+01	-0.212000E+00	-0.265000E-01
	18.400	0.209890E+01	0.108100E+00	0.751000E-01	0.507430E+01	0.249980E+01	-0.186300E+00	-0.176000E-01

18.600	0.212820E+01	0.106100E+00	0.730000E-01	0.518270E+01	0.238960E+01	-0.162500E+00	-0.870000E-02
18.800	0.215630E+01	0.104100E+00	0.706000E-01	0.528500E+01	0.227830E+01	-0.140200E+00	0.200000E-03
19.000	0.218330E+01	0.102100E+00	0.681000E-01	0.538100E+01	0.216740E+01	-0.119000E+00	0.870000E-02
19.200	0.220920E+01	0.100200E+00	0.655000E-01	0.547100E+01	0.205710E+01	-0.997000E-01	0.164000E-01
19.400	0.223410E+01	0.982000E-01	0.628000E-01	0.555480E+01	0.194870E+01	-0.817000E-01	0.234000E-01
19.600	0.225810E+01	0.963000E-01	0.602000E-01	0.563260E+01	0.184320E+01	-0.648000E-01	0.300000E-01
19.800	0.228110E+01	0.944000E-01	0.575000E-01	0.570460E+01	0.174090E+01	-0.489000E-01	0.361000E-01
20.000	0.230310E+01	0.925000E-01	0.548000E-01	0.577130E+01	0.164250E+01	-0.341000E-01	0.420000E-01
20.200	0.232430E+01	0.906000E-01	0.522000E-01	0.583290E+01	0.154830E+01	-0.203000E-01	0.479000E-01
20.400	0.234460E+01	0.887000E-01	0.496000E-01	0.588970E+01	0.145830E+01	-0.730000E-02	0.540000E-01
20.600	0.236410E+01	0.869000E-01	0.471000E-01	0.594210E+01	0.137270E+01	0.480000E-02	0.607000E-01
20.800	0.238270E+01	0.850000E-01	0.447000E-01	0.599050E+01	0.129150E+01	0.162000E-01	0.685000E-01
21.200	0.241760E+01	0.815000E-01	0.400000E-01	0.607630E+01	0.114210E+01	0.367000E-01	0.934000E-01
21.400	0.243400E+01	0.797000E-01	0.377000E-01	0.611430E+01	0.107350E+01	0.460000E-01	0.118300E+00
21.600	0.244960E+01	0.780000E-01	0.356000E-01	0.614940E+01	0.100900E+01	0.546000E-01	0.171100E+00
22.000	0.247870E+01	0.746000E-01	0.316000E-01	0.621200E+01	0.890900E+00	0.702000E-01	0.804500E+00
22.200	0.249220E+01	0.730000E-01	0.297000E-01	0.623990E+01	0.837000E+00	0.771000E-01	0.866000E+00
22.400	0.250510E+01	0.714000E-01	0.279000E-01	0.626570E+01	0.786300E+00	0.835000E-01	0.868600E+00
23.600	0.257050E+01	0.624000E-01	0.188000E-01	0.638640E+01	0.538900E+00	0.111500E+00	0.834600E+00
24.000	0.258830E+01	0.597000E-01	0.164000E-01	0.641630E+01	0.474300E+00	0.117100E+00	0.820200E+00
24.200	0.259650E+01	0.583000E-01	0.153000E-01	0.642990E+01	0.444800E+00	0.119100E+00	0.812800E+00
24.400	0.260430E+01	0.571000E-01	0.142000E-01	0.644250E+01	0.417100E+00	0.120700E+00	0.805600E+00
24.800	0.261870E+01	0.546000E-01	0.123000E-01	0.646530E+01	0.366200E+00	0.122400E+00	0.791300E+00
25.000	0.262540E+01	0.534000E-01	0.114000E-01	0.647570E+01	0.342900E+00	0.122500E+00	0.784400E+00
25.400	0.263770E+01	0.511000E-01	0.980000E-02	0.649440E+01	0.300500E+00	0.121400E+00	0.771600E+00
25.600	0.264340E+01	0.499000E-01	0.910000E-02	0.650290E+01	0.281200E+00	0.120200E+00	0.765600E+00
25.800	0.264880E+01	0.489000E-01	0.840000E-02	0.651080E+01	0.263100E+00	0.118500E+00	0.760100E+00
26.000	0.265390E+01	0.478000E-01	0.780000E-02	0.651830E+01	0.246100E+00	0.116400E+00	0.754900E+00
26.400	0.266340E+01	0.458000E-01	0.670000E-02	0.653190E+01	0.215400E+00	0.111300E+00	0.745800E+00
26.600	0.266780E+01	0.448000E-01	0.620000E-02	0.653810E+01	0.201600E+00	0.108300E+00	0.741900E+00
26.800	0.267200E+01	0.439000E-01	0.570000E-02	0.654390E+01	0.188700E+00	0.105000E+00	0.738400E+00
27.000	0.267590E+01	0.429000E-01	0.520000E-02	0.654940E+01	0.176700E+00	0.101600E+00	0.735500E+00
27.200	0.267970E+01	0.420000E-01	0.480000E-02	0.655460E+01	0.165600E+00	0.980000E-01	0.732800E+00
27.400	0.268320E+01	0.412000E-01	0.450000E-02	0.655950E+01	0.155300E+00	0.943000E-01	0.730500E+00
27.600	0.268660E+01	0.403000E-01	0.410000E-02	0.656410E+01	0.145700E+00	0.904000E-01	0.728500E+00
28.000	0.269290E+01	0.386000E-01	0.350000E-02	0.657250E+01	0.128500E+00	0.826000E-01	0.725500E+00
28.200	0.269580E+01	0.379000E-01	0.320000E-02	0.657640E+01	0.120900E+00	0.788000E-01	0.724400E+00
28.600	0.270110E+01	0.363000E-01	0.270000E-02	0.658350E+01	0.107300E+00	0.711000E-01	0.723100E+00
28.800	0.270360E+01	0.356000E-01	0.250000E-02	0.658670E+01	0.101300E+00	0.674000E-01	0.722700E+00
29.400	0.271040E+01	0.335000E-01	0.200000E-02	0.659560E+01	0.856000E-01	0.570000E-01	0.722500E+00
30.200	0.271800E+01	0.310000E-01	0.150000E-02	0.660540E+01	0.697000E-01	0.451000E-01	0.723900E+00
30.400	0.271970E+01	0.304000E-01	0.140000E-02	0.660760E+01	0.663000E-01	0.425000E-01	0.724400E+00
31.400	0.272700E+01	0.276000E-01	0.100000E-02	0.661700E+01	0.529000E-01	0.316000E-01	0.727200E+00
31.600	0.272830E+01	0.271000E-01	0.100000E-02	0.661860E+01	0.507000E-01	0.299000E-01	0.727900E+00
31.800	0.272960E+01	0.266000E-01	0.900000E-03	0.662020E+01	0.487000E-01	0.282000E-01	0.728500E+00

The following tables display the dipole moment functions between the four lowest Σ^+ states with the seven lowest Σ states of **NaRb**, for singlet (Tables 1 to 4) and triplet (Tables 5 to 8) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 2.54158059 Debye. All states are identified with their number with increasing energy. When both indexes are equal, the function corresponds to the permanent dipole moment.

Table 1: (1)¹ Σ^+ -(1-7)¹ Σ^+ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
4.400	-0.107890E+01	0.337260E+01	0.102700E+01	-0.417400E+00	-0.583000E-01	-0.496800E+00	-0.135000E-01
4.600	-0.109550E+01	0.340800E+01	0.968000E+00	-0.437200E+00	-0.852000E-01	-0.545000E+00	-0.105000E-01
4.800	-0.111130E+01	0.344280E+01	0.917600E+00	-0.450300E+00	-0.102100E+00	-0.581800E+00	-0.700000E-02
5.000	-0.112730E+01	0.347740E+01	0.879600E+00	-0.456000E+00	-0.112600E+00	-0.607500E+00	-0.330000E-02
5.200	-0.114400E+01	0.351300E+01	0.854800E+00	-0.455500E+00	-0.120300E+00	-0.623600E+00	0.300000E-03
5.400	-0.116160E+01	0.355040E+01	0.841700E+00	-0.450600E+00	-0.127900E+00	-0.631800E+00	0.320000E-02
5.600	-0.118030E+01	0.359020E+01	0.838400E+00	-0.443200E+00	-0.137400E+00	-0.634000E+00	0.510000E-02
5.800	-0.119970E+01	0.363260E+01	0.842900E+00	-0.435000E+00	-0.149900E+00	-0.631600E+00	0.590000E-02
6.000	-0.121970E+01	0.367760E+01	0.853900E+00	-0.427000E+00	-0.166200E+00	-0.625800E+00	0.610000E-02
6.200	-0.123980E+01	0.372490E+01	0.870400E+00	-0.420000E+00	-0.186200E+00	-0.617000E+00	0.620000E-02
6.800	-0.129640E+01	0.387690E+01	0.947300E+00	-0.406000E+00	-0.266300E+00	-0.575400E+00	0.132000E-01
7.000	-0.131230E+01	0.392900E+01	0.981200E+00	-0.402800E+00	-0.298300E+00	-0.556600E+00	0.194000E-01
7.400	-0.133550E+01	0.403160E+01	0.106010E+01	-0.390000E+00	-0.372600E+00	-0.511800E+00	0.398000E-01
7.600	-0.134170E+01	0.408060E+01	0.110480E+01	-0.363900E+00	-0.426600E+00	-0.486100E+00	0.538000E-01
8.000	-0.133960E+01	0.417020E+01	0.120330E+01	-0.308100E+00	-0.521400E+00	-0.429300E+00	0.882000E-01
8.200	-0.133030E+01	0.420920E+01	0.125660E+01	-0.398500E+00	-0.486100E+00	-0.398500E+00	0.107400E+00
8.400	-0.131460E+01	0.424350E+01	0.131180E+01	-0.443700E+00	-0.477400E+00	-0.366300E+00	0.127000E+00
8.600	-0.129250E+01	0.427210E+01	0.136850E+01	-0.479300E+00	-0.475500E+00	-0.332900E+00	0.146300E+00
8.800	-0.126350E+01	0.429460E+01	0.142610E+01	-0.511700E+00	-0.475800E+00	-0.298300E+00	0.164800E+00
9.000	-0.122780E+01	0.431010E+01	0.148390E+01	-0.543100E+00	-0.476500E+00	-0.262900E+00	0.182000E+00
9.200	-0.118560E+01	0.431830E+01	0.154130E+01	-0.574400E+00	-0.476900E+00	-0.226800E+00	0.197600E+00
9.400	-0.113730E+01	0.431880E+01	0.159760E+01	-0.605900E+00	-0.476300E+00	-0.190200E+00	0.211300E+00
9.800	-0.102530E+01	0.429600E+01	0.170470E+01	-0.670300E+00	-0.470900E+00	-0.117300E+00	0.232900E+00
10.000	-0.963400E+00	0.427280E+01	0.175470E+01	-0.702800E+00	-0.465600E+00	-0.819000E-01	0.241100E+00
10.200	-0.899000E+00	0.424230E+01	0.180190E+01	-0.735100E+00	-0.458500E+00	-0.478000E-01	0.248100E+00
10.400	-0.833300E+00	0.420500E+01	0.184630E+01	-0.766500E+00	-0.449700E+00	-0.155000E-01	0.254600E+00
10.600	-0.767400E+00	0.416170E+01	0.188790E+01	-0.796400E+00	-0.439400E+00	-0.145000E-01	0.261700E+00
10.800	-0.702300E+00	0.411340E+01	0.192700E+01	-0.824000E+00	-0.427700E+00	-0.416000E-01	0.271000E+00
11.000	-0.639000E+00	0.406100E+01	0.196390E+01	-0.848200E+00	-0.414900E+00	-0.655000E-01	0.284200E+00
11.200	-0.578200E+00	0.400550E+01	0.199910E+01	-0.868200E+00	-0.401300E+00	-0.852000E-01	0.302600E+00
11.400	-0.520600E+00	0.394810E+01	0.203310E+01	-0.882500E+00	-0.387100E+00	-0.999000E-01	0.325200E+00
11.600	-0.466600E+00	0.388990E+01	0.206660E+01	-0.889900E+00	-0.372700E+00	-0.107200E+00	0.350100E+00
11.800	-0.416500E+00	0.383170E+01	0.210040E+01	-0.888400E+00	-0.358300E+00	-0.103200E+00	0.376700E+00
12.000	-0.370300E+00	0.377450E+01	0.213530E+01	-0.875800E+00	-0.343900E+00	-0.795000E-01	0.405700E+00
12.200	-0.328100E+00	0.371910E+01	0.217230E+01	-0.848800E+00	-0.329900E+00	-0.221000E-01	0.433500E+00
12.400	-0.289900E+00	0.366610E+01	0.221230E+01	-0.803200E+00	-0.316200E+00	0.724000E-01	0.446400E+00
12.600	-0.255400E+00	0.361610E+01	0.225600E+01	-0.732500E+00	-0.303000E+00	0.165100E+00	0.437300E+00
12.800	-0.224400E+00	0.356950E+01	0.230350E+01	-0.627100E+00	-0.290300E+00	0.225000E+00	0.423200E+00
13.000	-0.196700E+00	0.352670E+01	0.235270E+01	-0.473400E+00	-0.278100E+00	0.258300E+00	0.413900E+00
13.200	-0.172100E+00	0.348780E+01	0.239620E+01	-0.254200E+00	-0.266500E+00	0.276000E+00	0.408800E+00
13.400	-0.150200E+00	0.345300E+01	0.241610E+01	-0.427000E-01	-0.255400E+00	0.284400E+00	0.405800E+00
13.600	-0.130900E+00	0.342240E+01	0.238710E+01	0.401300E+00	-0.244800E+00	0.286700E+00	0.403200E+00
13.800	-0.113800E+00	0.339600E+01	0.229860E+01	0.763500E+00	-0.234700E+00	0.285100E+00	0.400200E+00
14.000	-0.987000E-01	0.337350E+01	0.217270E+01	0.106800E+01	-0.225100E+00	0.280600E+00	0.396200E+00
14.200	-0.854000E-01	0.335480E+01	0.204060E+01	0.129620E+01	-0.216000E+00	0.274100E+00	0.391000E+00
14.400	-0.738000E-01	0.333970E+01	0.191880E+01	0.146100E+01	-0.207200E+00	0.266400E+00	0.384400E+00
14.600	-0.635000E-01	0.332790E+01	0.181050E+01	0.158130E+01	-0.198800E+00	0.257800E+00	0.376500E+00
14.800	-0.545000E-01	0.331900E+01	0.171370E+01	0.167200E+01	-0.190700E+00	0.248700E+00	0.367400E+00
15.000	-0.467000E-01	0.331270E+01	0.162570E+01	0.174250E+01	-0.182900E+00	0.239500E+00	0.357300E+00
15.200	-0.397000E-01	0.330840E+01	0.154390E+01	0.179930E+01	-0.175400E+00	0.230200E+00	0.346200E+00
15.400	-0.337000E-01	0.330590E+01	0.146680E+01	0.184620E+01	-0.168100E+00	0.221000E+00	0.334500E+00
15.600	-0.284000E-01	0.330470E+01	0.139300E+01	0.188580E+01	-0.161200E+00	0.212100E+00	0.322100E+00
15.800	-0.237000E-01	0.330440E+01	0.132210E+01	0.192000E+01	-0.154400E+00	0.203500E+00	0.309500E+00
16.200	-0.160000E-01	0.330500E+01	0.118790E+01	0.197630E+01	-0.141600E+00	0.187300E+00	0.283600E+00
16.400	-0.129000E-01	0.330550E+01	0.112470E+01	0.199980E+01	-0.135500E+00	0.179800E+00	0.270600E+00
16.600	-0.102000E-01	0.330560E+01	0.106440E+01	0.202100E+01	-0.129600E+00	0.172600E+00	0.257800E+00
16.800	-0.780000E-02	0.330540E+01	0.100730E+01	0.204000E+01	-0.123900E+00	0.165800E+00	0.245000E+00
17.000	-0.560000E-02	0.330470E+01	0.954200E+00	0.205700E+01	-0.118500E+00	0.159300E+00	0.232600E+00
17.200	-0.380000E-02	0.330340E+01	0.905900E+00	0.207190E+01	-0.113200E+00	0.153100E+00	0.220400E+00
17.400	-0.220000E-02	0.330160E+01	0.864100E+00	0.208450E+01	-0.108100E+00	0.147300E+00	0.208300E+00
17.600	-0.700000E-03	0.329910E+01	0.832300E+00	0.209350E+01	-0.103300E+00	0.141700E+00	0.196400E+00
17.800	0.500000E-03	0.329610E+01	0.821000E+00	0.209550E+01	-0.986000E-01	0.136500E+00	0.184400E+00
18.000	0.160000E-02	0.329270E+01	0.878400E+00	0.207080E+01	-0.940000E-01	0.131500E+00	0.171800E+00
18.600	0.420000E-02	0.327980E+01	0.220940E+01	0.433000E+00	-0.814000E-01	0.118000E+00	0.153600E+00
19.000	0.540000E-02	0.326980E+01	0.221540E+01	0.427100E+00	-0.737000E-01	0.110100E+00	0.177900E+00
19.200	0.590000E-02	0.326450E+01	0.222190E+01	0.409700E+00	-0.700000E-01	0.106500E+00	0.182100E+00

19.400	0.640000E-02	0.325910E+01	0.222890E+01	0.390500E+00	-0.664000E-01	0.103000E+00	0.185500E+00
19.800	0.710000E-02	0.324820E+01	0.224330E+01	0.352000E+00	-0.595000E-01	0.967000E-01	0.191300E+00
20.000	0.740000E-02	0.324260E+01	0.225030E+01	0.333700E+00	-0.561000E-01	0.938000E-01	0.193900E+00
20.400	0.790000E-02	0.323160E+01	0.226390E+01	0.300000E+00	-0.494000E-01	0.886000E-01	0.198700E+00
20.600	0.810000E-02	0.322620E+01	0.227040E+01	0.284600E+00	-0.461000E-01	0.862000E-01	0.201000E+00
21.600	0.860000E-02	0.320030E+01	0.229970E+01	0.221300E+00	-0.288000E-01	0.767000E-01	0.211100E+00
22.400	0.880000E-02	0.318140E+01	0.231970E+01	0.183500E+00	-0.127000E-01	0.720000E-01	0.217900E+00
22.600	0.880000E-02	0.317700E+01	0.232430E+01	0.175200E+00	-0.820000E-02	0.713000E-01	0.219500E+00
22.800	0.880000E-02	0.317270E+01	0.232880E+01	0.167400E+00	-0.350000E-02	0.706000E-01	0.221000E+00
23.000	0.880000E-02	0.316850E+01	0.233310E+01	0.159800E+00	0.130000E-02	0.702000E-01	0.222400E+00
23.200	0.880000E-02	0.316440E+01	0.233720E+01	0.152400E+00	0.620000E-02	0.699000E-01	0.223800E+00
23.800	0.870000E-02	0.315280E+01	0.234880E+01	0.131000E+00	0.196000E-01	0.699000E-01	0.227600E+00
24.000	0.870000E-02	0.314910E+01	0.235250E+01	0.124200E+00	0.232000E-01	0.701000E-01	0.228700E+00
24.200	0.860000E-02	0.314550E+01	0.235600E+01	0.117500E+00	0.260000E-01	0.704000E-01	0.229900E+00
24.400	0.860000E-02	0.314210E+01	0.235940E+01	0.111100E+00	0.280000E-01	0.708000E-01	0.230900E+00
24.600	0.850000E-02	0.313870E+01	0.236270E+01	0.105100E+00	0.291000E-01	0.712000E-01	0.231900E+00
24.800	0.850000E-02	0.313540E+01	0.236590E+01	0.994000E-01	0.294000E-01	0.715000E-01	0.232900E+00
25.000	0.840000E-02	0.313220E+01	0.236890E+01	0.941000E-01	0.290000E-01	0.718000E-01	0.233800E+00
25.200	0.840000E-02	0.312910E+01	0.237190E+01	0.893000E-01	0.281000E-01	0.720000E-01	0.234700E+00
25.400	0.830000E-02	0.312610E+01	0.237480E+01	0.848000E-01	0.268000E-01	0.720000E-01	0.235600E+00
25.600	0.830000E-02	0.312320E+01	0.237770E+01	0.807000E-01	0.251000E-01	0.718000E-01	0.236400E+00
25.800	0.820000E-02	0.312040E+01	0.238040E+01	0.770000E-01	0.234000E-01	0.715000E-01	0.237100E+00
26.000	0.820000E-02	0.311760E+01	0.238300E+01	0.735000E-01	0.216000E-01	0.710000E-01	0.237800E+00
26.200	0.810000E-02	0.311490E+01	0.238560E+01	0.704000E-01	0.198000E-01	0.704000E-01	0.238500E+00
26.400	0.800000E-02	0.311230E+01	0.238810E+01	0.674000E-01	0.181000E-01	0.697000E-01	0.239100E+00
26.600	0.800000E-02	0.310970E+01	0.239050E+01	0.647000E-01	0.165000E-01	0.689000E-01	0.239700E+00
26.800	0.790000E-02	0.310720E+01	0.239290E+01	0.622000E-01	0.150000E-01	0.680000E-01	0.240300E+00
27.000	0.780000E-02	0.310480E+01	0.239510E+01	0.598000E-01	0.136000E-01	0.670000E-01	0.240800E+00
27.200	0.780000E-02	0.310250E+01	0.239740E+01	0.576000E-01	0.124000E-01	0.659000E-01	0.241300E+00
27.400	0.770000E-02	0.310020E+01	0.239950E+01	0.556000E-01	0.113000E-01	0.649000E-01	0.241800E+00
27.600	0.770000E-02	0.309790E+01	0.240160E+01	0.536000E-01	0.103000E-01	0.639000E-01	0.242300E+00
27.800	0.760000E-02	0.309580E+01	0.240360E+01	0.518000E-01	0.940000E-02	0.628000E-01	0.242700E+00
28.000	0.750000E-02	0.309370E+01	0.240560E+01	0.500000E-01	0.860000E-02	0.617000E-01	0.243100E+00
28.200	0.750000E-02	0.309160E+01	0.240750E+01	0.484000E-01	0.790000E-02	0.607000E-01	0.243400E+00
28.400	0.740000E-02	0.308960E+01	0.240940E+01	0.468000E-01	0.730000E-02	0.597000E-01	0.243800E+00
28.600	0.730000E-02	0.308760E+01	0.241120E+01	0.453000E-01	0.670000E-02	0.587000E-01	0.244100E+00
28.800	0.730000E-02	0.308570E+01	0.241300E+01	0.438000E-01	0.620000E-02	0.577000E-01	0.244400E+00
29.000	0.720000E-02	0.308390E+01	0.241470E+01	0.425000E-01	0.580000E-02	0.568000E-01	0.244700E+00
29.200	0.710000E-02	0.308210E+01	0.241640E+01	0.411000E-01	0.540000E-02	0.559000E-01	0.245000E+00
29.400	0.710000E-02	0.308030E+01	0.241800E+01	0.399000E-01	0.500000E-02	0.550000E-01	0.245200E+00
29.600	0.700000E-02	0.307860E+01	0.241960E+01	0.387000E-01	0.470000E-02	0.542000E-01	0.245400E+00
29.800	0.690000E-02	0.307690E+01	0.242110E+01	0.375000E-01	0.440000E-02	0.534000E-01	0.245600E+00
30.000	0.690000E-02	0.307460E+01	0.242220E+01	0.363000E-01	0.420000E-02	0.526000E-01	0.245800E+00
30.400	0.680000E-02	0.307110E+01	0.242560E+01	0.342000E-01	0.370000E-02	0.512000E-01	0.246200E+00

Table 2: $(2)^1\Sigma^+-(2-7)^1\Sigma^+$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
4.400	0.718600E+00	-0.207130E+01	0.168080E+01	0.269160E+01	-0.150110E+01	0.124590E+01
4.600	0.670000E+00	-0.226290E+01	0.160000E+01	0.264800E+01	-0.142740E+01	0.123780E+01
4.800	0.625800E+00	-0.243820E+01	0.151860E+01	0.259110E+01	-0.138700E+01	0.120430E+01
5.000	0.587200E+00	-0.259170E+01	0.143730E+01	0.253820E+01	-0.136740E+01	0.115230E+01
5.200	0.553700E+00	-0.271950E+01	0.135810E+01	0.250090E+01	-0.136220E+01	0.109070E+01
5.400	0.523800E+00	-0.281920E+01	0.128450E+01	0.248600E+01	-0.136750E+01	0.102860E+01
5.600	0.495700E+00	-0.288990E+01	0.122030E+01	0.249730E+01	-0.138000E+01	0.974000E+00
5.800	0.467400E+00	-0.293230E+01	0.116820E+01	0.253590E+01	-0.139720E+01	0.932100E+00
6.000	0.437400E+00	-0.294750E+01	0.112960E+01	0.260190E+01	-0.141670E+01	0.906000E+00
6.200	0.404000E+00	-0.293710E+01	0.110460E+01	0.269370E+01	-0.143630E+01	0.897000E+00
6.800	0.268800E+00	-0.276750E+01	0.110880E+01	0.309630E+01	-0.147810E+01	0.967200E+00
7.000	0.207200E+00	-0.266950E+01	0.114010E+01	0.325770E+01	-0.148330E+01	0.101660E+01
7.400	0.505000E-01	-0.241950E+01	0.130440E+01	0.357140E+01	-0.148090E+01	0.113460E+01
7.600	-0.476000E-01	-0.227070E+01	0.156980E+01	0.365790E+01	-0.147580E+01	0.119550E+01
7.800	-0.160600E+00	-0.210880E+01	0.284470E+01	0.302840E+01	-0.146960E+01	0.125010E+01
8.000	-0.289600E+00	-0.193600E+01	0.432200E+01	0.144000E-01	-0.146450E+01	0.129610E+01
8.200	-0.435500E+00	-0.175510E+01	0.444840E+01	-0.522100E+00	-0.146120E+01	0.132990E+01
8.400	-0.598700E+00	-0.156890E+01	0.457280E+01	-0.685100E+00	-0.146120E+01	0.135100E+01
8.600	-0.779000E+00	-0.138060E+01	0.469380E+01	-0.761900E+00	-0.146530E+01	0.135930E+01
8.800	-0.976100E+00	-0.119300E+01	0.480600E+01	-0.804700E+00	-0.147410E+01	0.135580E+01
9.000	-0.118870E+01	-0.100890E+01	0.490720E+01	-0.829800E+00	-0.148780E+01	0.134160E+01
9.200	-0.141530E+01	-0.830900E+00	0.499710E+01	-0.843700E+00	-0.150640E+01	0.131780E+01
9.400	-0.165370E+01	-0.660700E+00	0.507640E+01	-0.849700E+00	-0.152950E+01	0.128540E+01
9.800	-0.215560E+01	-0.348500E+00	0.520780E+01	-0.844700E+00	-0.158690E+01	0.119660E+01
10.000	-0.241330E+01	-0.207000E+00	0.526300E+01	-0.835900E+00	-0.161920E+01	0.113980E+01
10.200	-0.267120E+01	-0.745000E-01	0.531340E+01	-0.823900E+00	-0.165220E+01	0.107280E+01
10.400	-0.292640E+01	0.501000E-01	0.536050E+01	-0.809700E+00	-0.168450E+01	0.992700E+00
10.600	-0.317600E+01	0.168500E+00	0.540560E+01	-0.793800E+00	-0.171480E+01	0.894000E+00
10.800	-0.341710E+01	0.282700E+00	0.544970E+01	-0.776800E+00	-0.174170E+01	0.767800E+00
11.000	-0.364750E+01	0.395200E+00	0.549370E+01	-0.759200E+00	-0.176400E+01	0.602300E+00
11.200	-0.386490E+01	0.508600E+00	0.553810E+01	-0.741400E+00	-0.178060E+01	0.391600E+00
11.400	-0.406750E+01	0.626000E+00	0.558290E+01	-0.723500E+00	-0.179080E+01	0.162400E+00
11.600	-0.425370E+01	0.751200E+00	0.562790E+01	-0.705500E+00	-0.179420E+01	0.171000E-01
11.800	-0.442220E+01	0.888600E+00	0.567200E+01	-0.687400E+00	-0.178970E+01	0.864000E-01
12.000	-0.457190E+01	0.104410E+01	0.571360E+01	-0.669000E+00	-0.177220E+01	-0.180000E-01
12.200	-0.470180E+01	0.122520E+01	0.574960E+01	-0.650000E+00	-0.171810E+01	-0.205900E+00
12.400	-0.481110E+01	0.144250E+01	0.577500E+01	-0.630100E+00	-0.157630E+01	-0.544400E+00
12.600	-0.489910E+01	0.171110E+01	0.578110E+01	-0.609000E+00	-0.135770E+01	-0.823300E+00
12.800	-0.496510E+01	0.205170E+01	0.575290E+01	-0.586400E+00	-0.114880E+01	-0.955500E+00
13.000	-0.500850E+01	0.249210E+01	0.566420E+01	-0.562000E+00	-0.975700E+00	-0.991000E+00
13.200	-0.502900E+01	0.306040E+01	0.547130E+01	-0.535500E+00	-0.826400E+00	-0.978300E+00
13.400	-0.502600E+01	0.376080E+01	0.511580E+01	-0.506400E+00	-0.688500E+00	-0.942900E+00
13.600	-0.499940E+01	0.452670E+01	0.456370E+01	-0.474600E+00	-0.554800E+00	-0.897500E+00
13.800	-0.494900E+01	0.522050E+01	0.387790E+01	-0.439800E+00	-0.421000E+00	-0.849000E+00
14.000	-0.487500E+01	0.574250E+01	0.319920E+01	-0.401800E+00	-0.285200E+00	-0.801100E+00
14.200	-0.477770E+01	0.609510E+01	0.262680E+01	-0.360200E+00	-0.146000E+00	-0.756100E+00
14.400	-0.465800E+01	0.632720E+01	0.217920E+01	-0.315000E+00	0.330000E-02	-0.715200E+00
14.600	-0.451710E+01	0.648120E+01	0.183650E+01	-0.266100E+00	0.142900E+00	-0.678800E+00
14.800	-0.435640E+01	0.658320E+01	0.157270E+01	-0.213500E+00	0.292200E+00	-0.647000E+00
15.000	-0.417800E+01	0.664740E+01	0.136660E+01	-0.157100E+00	0.444000E+00	-0.619700E+00
15.200	-0.398440E+01	0.668150E+01	0.120300E+01	-0.972000E-01	0.597300E+00	-0.596400E+00
15.400	-0.377850E+01	0.668970E+01	0.107120E+01	-0.338000E-01	0.751300E+00	-0.576600E+00
15.600	-0.356320E+01	0.667460E+01	0.963700E+00	0.326000E-01	0.904600E+00	-0.559900E+00
15.800	-0.334190E+01	0.663790E+01	0.875000E+00	0.101800E+00	0.105650E+01	-0.545800E+00
16.200	-0.289450E+01	0.650660E+01	0.740600E+00	0.246400E+00	0.135080E+01	-0.523600E+00
16.400	-0.267450E+01	0.641560E+01	0.690000E+00	0.320900E+00	0.149120E+01	-0.514600E+00
16.600	-0.246070E+01	0.631040E+01	0.648700E+00	0.396100E+00	0.162600E+01	-0.506700E+00
16.800	-0.225520E+01	0.619320E+01	0.615800E+00	0.471500E+00	0.175440E+01	-0.499400E+00
17.000	-0.205960E+01	0.606620E+01	0.591500E+00	0.546500E+00	0.187590E+01	-0.492700E+00
17.200	-0.187540E+01	0.593160E+01	0.576700E+00	0.620600E+00	0.199010E+01	-0.486400E+00
17.400	-0.170330E+01	0.579140E+01	0.574500E+00	0.693400E+00	0.209660E+01	-0.480000E+00
17.600	-0.154370E+01	0.564650E+01	0.593200E+00	0.764400E+00	0.219550E+01	-0.473400E+00
17.800	-0.139670E+01	0.549550E+01	0.657700E+00	0.833300E+00	0.228670E+01	-0.466400E+00
18.000	-0.126200E+01	0.531940E+01	0.887400E+00	0.899700E+00	0.237040E+01	-0.458200E+00
18.600	-0.926800E+00	0.336000E-01	0.498710E+01	0.108110E+01	0.257880E+01	-0.152300E+00
19.000	-0.754000E+00	0.147900E+00	0.474050E+01	0.118470E+01	0.268520E+01	-0.166900E+00
19.200	-0.680400E+00	0.163700E+00	0.462760E+01	0.123050E+01	0.272970E+01	-0.154200E+00
19.400	-0.614400E+00	0.170900E+00	0.452200E+01	0.127210E+01	0.276880E+01	-0.140600E+00
19.800	-0.502300E+00	0.173300E+00	0.433400E+01	0.134140E+01	0.283230E+01	-0.114200E+00
20.000	-0.454900E+00	0.171600E+00	0.425200E+01	0.136860E+01	0.285730E+01	-0.101800E+00
20.400	-0.374500E+00	0.165600E+00	0.411230E+01	0.140590E+01	0.289490E+01	-0.793000E-01
20.600	-0.340600E+00	0.161900E+00	0.405500E+01	0.141510E+01	0.290800E+01	-0.691000E-01
21.600	-0.217000E+00	0.141500E+00	0.389840E+01	0.133830E+01	0.292170E+01	-0.282000E-01
22.400	-0.156400E+00	0.125800E+00	0.393220E+01	0.105730E+01	0.286960E+01	-0.660000E-02
22.600	-0.144800E+00	0.122100E+00	0.396040E+01	0.942000E+00	0.284660E+01	-0.190000E-02
22.800	-0.134300E+00	0.118500E+00	0.399440E+01	0.804700E+00	0.281870E+01	0.220000E-02

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3 23.000 -0.124800E+00 0.115100E+00 0.403220E+01 0.643900E+00 0.278540E+01 0.580000E-02
4 23.200 -0.116200E+00 0.111700E+00 0.407090E+01 0.458900E+00 0.274620E+01 0.910000E-02
5 23.800 -0.949000E-01 0.102200E+00 0.416140E+01 0.222900E+00 0.258600E+01 0.173000E-01
6 24.000 -0.891000E-01 0.992000E-01 0.417390E+01 0.477200E+00 0.251580E+01 0.185000E-01
7 24.200 -0.837000E-01 0.963000E-01 0.417530E+01 0.733600E+00 0.243640E+01 0.202000E-01
8 24.400 -0.788000E-01 0.936000E-01 0.416660E+01 0.985300E+00 0.234760E+01 0.218000E-01
9 24.600 -0.743000E-01 0.909000E-01 0.414950E+01 0.122630E+01 0.224950E+01 0.231000E-01
10 24.800 -0.702000E-01 0.883000E-01 0.412620E+01 0.145210E+01 0.214290E+01 0.242000E-01
11 25.000 -0.664000E-01 0.858000E-01 0.409900E+01 0.165970E+01 0.202910E+01 0.252000E-01
12 25.200 -0.629000E-01 0.833000E-01 0.406990E+01 0.184720E+01 0.191010E+01 0.261000E-01
13 25.400 -0.597000E-01 0.810000E-01 0.404040E+01 0.201440E+01 0.178790E+01 0.266000E-01
14 25.600 -0.567000E-01 0.787000E-01 0.401160E+01 0.216150E+01 0.166490E+01 0.269000E-01
15 25.800 -0.539000E-01 0.765000E-01 0.398410E+01 0.228940E+01 0.154360E+01 0.273000E-01
16 26.000 -0.514000E-01 0.744000E-01 0.395830E+01 0.239950E+01 0.142600E+01 0.275000E-01
17 26.200 -0.490000E-01 0.724000E-01 0.393440E+01 0.249370E+01 0.131370E+01 0.277000E-01
18 26.400 -0.468000E-01 0.704000E-01 0.391240E+01 0.257380E+01 0.120760E+01 0.277000E-01
19 26.600 -0.447000E-01 0.685000E-01 0.389240E+01 0.264170E+01 0.110860E+01 0.275000E-01
20 26.800 -0.428000E-01 0.666000E-01 0.387410E+01 0.269910E+01 0.101700E+01 0.274000E-01
21 27.000 -0.410000E-01 0.648000E-01 0.385760E+01 0.274750E+01 0.932400E+00 0.268000E-01
22 27.200 -0.393000E-01 0.631000E-01 0.384260E+01 0.278840E+01 0.855200E+00 0.266000E-01
23 27.400 -0.378000E-01 0.614000E-01 0.382890E+01 0.282300E+01 0.784700E+00 0.262000E-01
24 27.600 -0.363000E-01 0.598000E-01 0.381660E+01 0.285220E+01 0.720600E+00 0.258000E-01
25 27.800 -0.349000E-01 0.582000E-01 0.380540E+01 0.287700E+01 0.662300E+00 0.255000E-01
26 28.000 -0.336000E-01 0.567000E-01 0.379520E+01 0.289810E+01 0.609300E+00 0.250000E-01
27 28.200 -0.324000E-01 0.552000E-01 0.378600E+01 0.291610E+01 0.561200E+00 0.245000E-01
28 28.400 -0.312000E-01 0.538000E-01 0.377750E+01 0.293140E+01 0.517400E+00 0.240000E-01
29 28.600 -0.301000E-01 0.524000E-01 0.376980E+01 0.294460E+01 0.477900E+00 0.237000E-01
30 28.800 -0.290000E-01 0.511000E-01 0.376280E+01 0.295590E+01 0.441800E+00 0.232000E-01
31 29.000 -0.281000E-01 0.498000E-01 0.375630E+01 0.296560E+01 0.408500E+00 0.223000E-01
32 29.200 -0.271000E-01 0.485000E-01 0.375040E+01 0.297400E+01 0.378500E+00 0.218000E-01
33 29.400 -0.262000E-01 0.473000E-01 0.374490E+01 0.298120E+01 0.351100E+00 0.213000E-01
34 29.600 -0.254000E-01 0.461000E-01 0.373990E+01 0.298750E+01 0.326000E+00 0.207000E-01
35 29.800 -0.246000E-01 0.450000E-01 0.373520E+01 0.299290E+01 0.303100E+00 0.201000E-01
36 30.000 -0.238000E-01 0.439000E-01 0.373090E+01 0.299770E+01 0.282100E+00 0.196000E-01
37 30.400 -0.224000E-01 0.418000E-01 0.372220E+01 0.300460E+01 0.245000E+00 0.185000E-01
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Table 3: $(3)^1\Sigma^+-(3-7)^1\Sigma^+$ transitions

R	3-3	3-4	3-5	3-6	3-7
4.400	-0.499000E+00	0.125000E+01	-0.248440E+01	0.129590E+01	-0.140360E+01
4.600	-0.502800E+00	0.130530E+01	-0.268420E+01	0.126590E+01	-0.131640E+01
4.800	-0.507100E+00	0.136300E+01	-0.289920E+01	0.123460E+01	-0.126580E+01
5.000	-0.519600E+00	0.141980E+01	-0.310670E+01	0.121750E+01	-0.125820E+01
5.200	-0.543200E+00	0.147090E+01	-0.328980E+01	0.122350E+01	-0.129120E+01
5.400	-0.576700E+00	0.151230E+01	-0.343740E+01	0.125530E+01	-0.135790E+01
5.600	-0.616900E+00	0.154170E+01	-0.354360E+01	0.131260E+01	-0.144940E+01
5.800	-0.660300E+00	0.155820E+01	-0.360640E+01	0.139410E+01	-0.155660E+01
6.000	-0.704300E+00	0.156250E+01	-0.362600E+01	0.149790E+01	-0.167270E+01
6.200	-0.747200E+00	0.155580E+01	-0.360390E+01	0.162140E+01	-0.179350E+01
6.800	-0.859200E+00	0.147720E+01	-0.331600E+01	0.207380E+01	-0.217490E+01
7.000	-0.888100E+00	0.143020E+01	-0.316030E+01	0.223640E+01	-0.230830E+01
7.400	-0.925200E+00	0.127150E+01	-0.280550E+01	0.255230E+01	-0.257410E+01
7.600	-0.929700E+00	0.107870E+01	-0.265210E+01	0.269950E+01	-0.270140E+01
7.800	-0.922100E+00	0.158500E+00	-0.263350E+01	0.283720E+01	-0.281550E+01
8.000	-0.900400E+00	0.159630E+01	-0.180620E+01	0.296550E+01	-0.291570E+01
8.200	-0.862700E+00	0.157760E+01	-0.151060E+01	0.308510E+01	-0.299630E+01
8.400	-0.807600E+00	0.140050E+01	-0.137610E+01	0.319740E+01	-0.305750E+01
8.600	-0.734400E+00	0.119800E+01	-0.127770E+01	0.330380E+01	-0.309970E+01
8.800	-0.642800E+00	0.994800E+00	-0.119010E+01	0.340610E+01	-0.312450E+01
9.000	-0.533600E+00	0.800200E+00	-0.110470E+01	0.350540E+01	-0.313430E+01
9.200	-0.408200E+00	0.619600E+00	-0.101800E+01	0.360260E+01	-0.313170E+01
9.400	-0.268700E+00	0.456100E+00	-0.928200E+00	0.369800E+01	-0.311950E+01
9.800	0.419000E-01	0.189000E+00	-0.737500E+00	0.388200E+01	-0.307960E+01
10.000	0.206700E+00	0.876000E-01	-0.637500E+00	0.396830E+01	-0.305950E+01
10.200	0.373600E+00	0.810000E-02	-0.535800E+00	0.404840E+01	-0.304590E+01
10.400	0.539500E+00	-0.497000E-01	-0.434100E+00	0.411990E+01	-0.304580E+01
10.600	0.701200E+00	-0.862000E-01	-0.333800E+00	0.417990E+01	-0.306810E+01
10.800	0.855900E+00	-0.102200E+00	-0.236700E+00	0.422430E+01	-0.312410E+01
11.000	0.100090E+01	-0.983000E-01	-0.143900E+00	0.424770E+01	-0.322460E+01
11.200	0.113380E+01	-0.750000E-01	-0.564000E-01	0.424180E+01	-0.337030E+01
11.400	0.125220E+01	-0.327000E-01	-0.254000E-01	0.419290E+01	-0.354600E+01
11.600	0.135370E+01	0.288000E-01	0.101500E+00	0.407650E+01	-0.374830E+01
11.800	0.143550E+01	0.110400E+00	0.172500E+00	0.384430E+01	-0.402030E+01
12.000	0.149440E+01	0.213700E+00	0.239400E+00	0.339630E+01	-0.442470E+01
12.200	0.152600E+01	0.342100E+00	0.303900E+00	0.254900E+01	-0.497520E+01
12.400	0.152350E+01	0.500400E+00	0.368500E+00	0.120040E+01	-0.547080E+01
12.600	0.147590E+01	0.695600E+00	0.436500E+00	0.228100E+00	-0.560760E+01
12.800	0.136420E+01	0.936800E+00	0.512600E+00	0.133330E+01	-0.546900E+01
13.000	0.115520E+01	0.123160E+01	0.603200E+00	0.220120E+01	-0.521630E+01
13.200	0.795500E+00	0.157490E+01	0.715400E+00	0.300240E+01	-0.487580E+01
13.400	0.220700E+00	0.192150E+01	0.853500E+00	0.382410E+01	-0.441490E+01
13.600	-0.585400E+00	0.216510E+01	0.101080E+01	0.464020E+01	-0.381710E+01
13.800	-0.151290E+01	0.220580E+01	0.116760E+01	0.533540E+01	-0.314760E+01
14.000	-0.239640E+01	0.206580E+01	0.130770E+01	0.582880E+01	-0.252770E+01
14.200	-0.316150E+01	0.184740E+01	0.142950E+01	0.613910E+01	-0.203120E+01
14.400	-0.382240E+01	0.162540E+01	0.153840E+01	0.632630E+01	-0.166150E+01
14.600	-0.441490E+01	0.142890E+01	0.163950E+01	0.643930E+01	-0.139220E+01
14.800	-0.496710E+01	0.126280E+01	0.173590E+01	0.650780E+01	-0.119500E+01
15.000	-0.549610E+01	0.112440E+01	0.182910E+01	0.654870E+01	-0.104840E+01
15.200	-0.601110E+01	0.100890E+01	0.192010E+01	0.657170E+01	-0.937000E+00
15.400	-0.651670E+01	0.912400E+00	0.200910E+01	0.658220E+01	-0.850400E+00
15.600	-0.701430E+01	0.831600E+00	0.209650E+01	0.658380E+01	-0.781200E+00
15.800	-0.750370E+01	0.763800E+00	0.218240E+01	0.657870E+01	-0.725100E+00
16.200	-0.845210E+01	0.661000E+00	0.234990E+01	0.655500E+01	-0.639300E+00
16.400	-0.890740E+01	0.624100E+00	0.243200E+01	0.653890E+01	-0.606000E+00
16.600	-0.934740E+01	0.596600E+00	0.251320E+01	0.652140E+01	-0.577700E+00
16.800	-0.977030E+01	0.579200E+00	0.259370E+01	0.650330E+01	-0.554200E+00
17.000	-0.101745E+02	0.573700E+00	0.267390E+01	0.648560E+01	-0.535600E+00
17.200	-0.105585E+02	0.584300E+00	0.275390E+01	0.646860E+01	-0.523300E+00
17.400	-0.109207E+02	0.619400E+00	0.283410E+01	0.645270E+01	-0.519300E+00
17.600	-0.112577E+02	0.699700E+00	0.291440E+01	0.643720E+01	-0.529700E+00
17.800	-0.115594E+02	0.886200E+00	0.299350E+01	0.641790E+01	-0.572600E+00
18.000	-0.117544E+02	0.146320E+01	0.306080E+01	0.636710E+01	-0.731900E+00
18.600	0.331200E+00	0.519800E+00	0.420000E-01	0.146000E+00	-0.418500E+00
19.000	0.302400E+00	0.208900E+00	-0.428000E-01	0.280800E+00	-0.395000E-01
19.200	0.283600E+00	0.155000E+00	-0.588000E-01	0.296800E+00	-0.155000E-01
19.400	0.265600E+00	0.122800E+00	-0.688000E-01	0.302100E+00	-0.630000E-02
19.800	0.233400E+00	0.901000E-01	-0.797000E-01	0.297800E+00	-0.430000E-02
20.000	0.219100E+00	0.820000E-01	-0.824000E-01	0.292100E+00	0.650000E-02
20.400	0.193800E+00	0.744000E-01	-0.846000E-01	0.277600E+00	0.131000E-01
20.600	0.182600E+00	0.732000E-01	-0.846000E-01	0.269600E+00	0.166000E-01
21.600	0.138400E+00	0.798000E-01	-0.758000E-01	0.229200E+00	0.319000E-01
22.400	0.113500E+00	0.919000E-01	-0.597000E-01	0.199600E+00	0.396000E-01
22.600	0.108300E+00	0.954000E-01	-0.541000E-01	0.192500E+00	0.408000E-01
22.800	0.103500E+00	0.988000E-01	-0.479000E-01	0.185600E+00	0.419000E-01

23.000	0.989000E-01	0.102200E+00	-0.408000E-01	0.178800E+00	0.429000E-01
23.200	0.947000E-01	0.105500E+00	-0.331000E-01	0.172100E+00	0.437000E-01
23.800	0.836000E-01	0.112600E+00	-0.590000E-02	0.152100E+00	0.451000E-01
24.000	0.804000E-01	0.113800E+00	-0.390000E-02	0.145300E+00	0.456000E-01
24.200	0.773000E-01	0.114300E+00	0.136000E-01	0.138500E+00	0.457000E-01
24.400	0.744000E-01	0.114200E+00	0.231000E-01	0.131500E+00	0.457000E-01
24.600	0.717000E-01	0.113500E+00	0.321000E-01	0.124400E+00	0.456000E-01
24.800	0.691000E-01	0.112400E+00	0.404000E-01	0.117300E+00	0.454000E-01
25.000	0.667000E-01	0.110900E+00	0.479000E-01	0.110100E+00	0.451000E-01
25.200	0.644000E-01	0.109200E+00	0.546000E-01	0.102900E+00	0.450000E-01
25.400	0.622000E-01	0.107300E+00	0.603000E-01	0.959000E-01	0.444000E-01
25.600	0.601000E-01	0.105300E+00	0.650000E-01	0.891000E-01	0.439000E-01
25.800	0.581000E-01	0.103300E+00	0.690000E-01	0.825000E-01	0.434000E-01
26.000	0.563000E-01	0.101200E+00	0.721000E-01	0.762000E-01	0.428000E-01
26.200	0.545000E-01	0.992000E-01	0.745000E-01	0.702000E-01	0.423000E-01
26.400	0.528000E-01	0.971000E-01	0.763000E-01	0.647000E-01	0.417000E-01
26.600	0.512000E-01	0.951000E-01	0.775000E-01	0.596000E-01	0.410000E-01
26.800	0.497000E-01	0.932000E-01	0.783000E-01	0.549000E-01	0.404000E-01
27.000	0.482000E-01	0.913000E-01	0.787000E-01	0.505000E-01	0.398000E-01
27.200	0.468000E-01	0.894000E-01	0.788000E-01	0.465000E-01	0.392000E-01
27.400	0.455000E-01	0.876000E-01	0.786000E-01	0.429000E-01	0.385000E-01
27.600	0.442000E-01	0.859000E-01	0.782000E-01	0.396000E-01	0.378000E-01
27.800	0.430000E-01	0.841000E-01	0.776000E-01	0.366000E-01	0.371000E-01
28.000	0.418000E-01	0.825000E-01	0.769000E-01	0.338000E-01	0.364000E-01
28.200	0.407000E-01	0.809000E-01	0.761000E-01	0.313000E-01	0.357000E-01
28.400	0.396000E-01	0.793000E-01	0.752000E-01	0.290000E-01	0.350000E-01
28.600	0.386000E-01	0.777000E-01	0.742000E-01	0.268000E-01	0.344000E-01
28.800	0.376000E-01	0.762000E-01	0.732000E-01	0.250000E-01	0.336000E-01
29.000	0.367000E-01	0.748000E-01	0.721000E-01	0.234000E-01	0.328000E-01
29.200	0.357000E-01	0.733000E-01	0.710000E-01	0.218000E-01	0.322000E-01
29.400	0.349000E-01	0.719000E-01	0.700000E-01	0.203000E-01	0.315000E-01
29.600	0.340000E-01	0.706000E-01	0.688000E-01	0.190000E-01	0.308000E-01
29.800	0.332000E-01	0.693000E-01	0.677000E-01	0.177000E-01	0.302000E-01
30.000	0.324000E-01	0.680000E-01	0.666000E-01	0.166000E-01	0.295000E-01
30.400	0.309000E-01	0.655000E-01	0.644000E-01	0.146000E-01	0.283000E-01

Table 4: $(4)^1\Sigma^+ - (4-7)^1\Sigma^+$ transitions

R	4-4	4-5	4-6	4-7
4.400	-0.162810E+01	-0.287390E+01	0.463210E+01	0.111200E+00
4.600	-0.171870E+01	-0.271760E+01	0.461870E+01	0.211700E+00
4.800	-0.177600E+01	-0.258190E+01	0.459940E+01	0.263600E+00
5.000	-0.179960E+01	-0.244940E+01	0.459240E+01	0.268600E+00
5.200	-0.179650E+01	-0.231480E+01	0.460540E+01	0.232900E+00
5.400	-0.177650E+01	-0.217910E+01	0.463920E+01	0.165300E+00
5.600	-0.174910E+01	-0.204510E+01	0.469150E+01	0.748000E-01
5.800	-0.172080E+01	-0.191530E+01	0.475910E+01	-0.302000E-01
6.000	-0.169520E+01	-0.179100E+01	0.483820E+01	-0.143800E+00
6.200	-0.167310E+01	-0.167270E+01	0.492550E+01	-0.263300E+00
6.800	-0.161100E+01	-0.136810E+01	0.521070E+01	-0.668000E+00
7.000	-0.157950E+01	-0.129850E+01	0.530910E+01	-0.831200E+00
7.400	-0.144660E+01	-0.130650E+01	0.552890E+01	-0.124540E+01
7.600	-0.123630E+01	-0.156430E+01	0.569880E+01	-0.156850E+01
7.800	0.388300E+00	-0.280070E+01	0.592070E+01	-0.234900E+01
8.000	0.411130E+01	-0.804200E+00	0.370330E+01	-0.237440E+01
8.200	0.409880E+01	-0.118900E+00	0.317290E+01	-0.199490E+01
8.400	0.397150E+01	0.618000E-01	0.305660E+01	-0.174610E+01
8.600	0.383450E+01	0.132400E+00	0.302870E+01	-0.157100E+01
8.800	0.369150E+01	0.166200E+00	0.302660E+01	-0.145250E+01
9.000	0.354100E+01	0.185100E+00	0.303120E+01	-0.138250E+01
9.200	0.338130E+01	0.197000E+00	0.303570E+01	-0.135460E+01
9.400	0.321140E+01	0.204500E+00	0.303800E+01	-0.136390E+01
9.800	0.283760E+01	0.207300E+00	0.303730E+01	-0.148260E+01
10.000	0.263340E+01	0.200700E+00	0.303840E+01	-0.159070E+01
10.200	0.241790E+01	0.187100E+00	0.304450E+01	-0.173510E+01
10.400	0.219150E+01	0.165400E+00	0.306000E+01	-0.192410E+01
10.600	0.195490E+01	0.134900E+00	0.309000E+01	-0.217220E+01
10.800	0.170900E+01	0.952000E-01	0.314050E+01	-0.250000E+01
11.000	0.145470E+01	0.464000E-01	0.321920E+01	-0.292770E+01
11.200	0.119310E+01	-0.107000E-01	0.333640E+01	-0.344220E+01
11.400	0.925400E+00	-0.754000E-01	0.350670E+01	-0.394230E+01
11.600	0.653200E+00	-0.146300E+00	0.375310E+01	-0.426520E+01
11.800	0.378300E+00	-0.222000E+00	0.411250E+01	-0.430970E+01
12.000	0.103200E+00	-0.300900E+00	0.463850E+01	-0.401070E+01
12.200	-0.168000E+00	-0.381100E+00	0.535480E+01	-0.321650E+01
12.400	-0.429200E+00	-0.460300E+00	0.605450E+01	-0.182880E+01
12.600	-0.669600E+00	-0.535800E+00	0.636860E+01	-0.316800E+00
12.800	-0.870500E+00	-0.603200E+00	0.634870E+01	-0.836300E+00
13.000	-0.998600E+00	-0.656100E+00	0.617290E+01	-0.169080E+01
13.200	-0.100070E+01	-0.684300E+00	0.587610E+01	-0.241750E+01
13.400	-0.811800E+00	-0.674400E+00	0.541950E+01	-0.310710E+01
13.600	-0.415400E+00	-0.618100E+00	0.477730E+01	0.374840E+01
13.800	0.795000E-01	-0.526600E+00	0.402170E+01	-0.425830E+01
14.000	0.508800E+00	-0.428400E+00	0.330000E+01	-0.458470E+01
14.200	0.799400E+00	-0.344900E+00	0.270890E+01	-0.475470E+01
14.400	0.967400E+00	-0.281700E+00	0.226040E+01	-0.482260E+01
14.600	0.105090E+01	-0.236400E+00	0.192770E+01	-0.483060E+01
14.800	0.108050E+01	-0.205000E+00	0.167990E+01	-0.480360E+01
15.000	0.107630E+01	-0.183600E+00	0.149250E+01	-0.475570E+01
15.200	0.105100E+01	-0.169600E+00	0.134800E+01	-0.469460E+01
15.400	0.101240E+01	-0.161000E+00	0.123420E+01	-0.462500E+01
15.600	0.965900E+00	-0.156200E+00	0.114300E+01	-0.454960E+01
15.800	0.915000E+00	-0.154400E+00	0.106850E+01	-0.447120E+01
16.200	0.808400E+00	-0.157100E+00	0.955300E+00	-0.430990E+01
16.400	0.755500E+00	-0.160800E+00	0.912100E+00	-0.422900E+01
16.600	0.704000E+00	-0.166000E+00	0.876300E+00	-0.414910E+01
16.800	0.654300E+00	-0.172800E+00	0.847600E+00	-0.407050E+01
17.000	0.606400E+00	-0.181600E+00	0.826300E+00	-0.399380E+01
17.200	0.560100E+00	-0.193600E+00	0.814300E+00	-0.392030E+01
17.400	0.514400E+00	-0.211000E+00	0.815800E+00	-0.384760E+01
17.600	0.466600E+00	-0.238900E+00	0.841100E+00	-0.377600E+01
17.800	0.406300E+00	-0.292900E+00	0.921600E+00	-0.370250E+01
18.000	0.262200E+00	-0.446000E+00	0.120440E+01	-0.360940E+01
18.600	-0.127074E+02	0.336500E+01	0.649900E+01	-0.591700E+00
19.000	-0.131606E+02	0.356470E+01	0.653850E+01	-0.561000E+00
19.200	-0.133513E+02	0.367150E+01	0.656980E+01	-0.543300E+00
19.400	-0.135218E+02	0.378380E+01	0.660860E+01	-0.523500E+00
19.800	-0.138021E+02	0.402750E+01	0.670860E+01	-0.476100E+00
20.000	-0.139104E+02	0.416010E+01	0.677010E+01	-0.447700E+00
20.400	-0.140568E+02	0.445050E+01	0.691600E+01	-0.379400E+00
20.600	-0.140910E+02	0.460950E+01	0.700050E+01	-0.338800E+00
21.600	-0.137410E+02	0.556480E+01	0.752460E+01	0.536000E-01
22.400	-0.124979E+02	0.648250E+01	0.798340E+01	0.300800E+00
22.600	-0.119889E+02	0.670210E+01	0.807610E+01	0.408300E+00
22.800	-0.113856E+02	0.689760E+01	0.814750E+01	0.522600E+00

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3 23.000 -0.106854E+02 0.705270E+01 0.818920E+01 0.642300E+00
4 23.200 -0.989220E+01 0.714800E+01 0.819250E+01 0.765300E+00
5 23.800 -0.713440E+01 0.688970E+01 0.790450E+01 0.112500E+01
6 24.000 -0.619290E+01 0.659090E+01 0.770320E+01 0.123430E+01
7 24.200 -0.530070E+01 0.619680E+01 0.745760E+01 0.133050E+01
8 24.400 -0.448600E+01 0.573010E+01 0.717780E+01 0.141500E+01
9 24.600 -0.376570E+01 0.521840E+01 0.687430E+01 0.148820E+01
10 24.800 -0.314560E+01 0.468920E+01 0.655720E+01 0.155130E+01
11 25.000 -0.262230E+01 0.416630E+01 0.623450E+01 0.160540E+01
12 25.200 -0.218660E+01 0.366750E+01 0.591250E+01 0.165220E+01
13 25.400 -0.182720E+01 0.320510E+01 0.559570E+01 0.169250E+01
14 25.600 -0.153210E+01 0.278550E+01 0.528700E+01 0.172850E+01
15 25.800 -0.129000E+01 0.241160E+01 0.498910E+01 0.176060E+01
16 26.000 -0.109140E+01 0.208300E+01 0.470380E+01 0.178950E+01
17 26.200 -0.928200E+00 0.179720E+01 0.443270E+01 0.181550E+01
18 26.400 -0.793400E+00 0.155060E+01 0.417610E+01 0.183990E+01
19 26.600 -0.681700E+00 0.133890E+01 0.393450E+01 0.186260E+01
20 26.800 -0.588800E+00 0.115790E+01 0.370820E+01 0.188370E+01
21 27.000 -0.511200E+00 0.100330E+01 0.349650E+01 0.190370E+01
22 27.200 -0.446000E+00 0.871600E+00 0.329930E+01 0.192240E+01
23 27.400 -0.391000E+00 0.759300E+00 0.311590E+01 0.193990E+01
24 27.600 -0.344400E+00 0.663400E+00 0.294530E+01 0.195650E+01
25 27.800 -0.304800E+00 0.581400E+00 0.278690E+01 0.197220E+01
26 28.000 -0.271000E+00 0.511100E+00 0.263970E+01 0.198710E+01
27 28.200 -0.242100E+00 0.450800E+00 0.250300E+01 0.200130E+01
28 28.400 -0.217200E+00 0.398900E+00 0.237580E+01 0.201470E+01
29 28.600 -0.195700E+00 0.354100E+00 0.225740E+01 0.202760E+01
30 28.800 -0.177100E+00 0.315300E+00 0.214750E+01 0.203960E+01
31 29.000 -0.160900E+00 0.281700E+00 0.204490E+01 0.205110E+01
32 29.200 -0.146900E+00 0.252500E+00 0.194920E+01 0.206210E+01
33 29.400 -0.134600E+00 0.227000E+00 0.186000E+01 0.207240E+01
34 29.600 -0.123900E+00 0.204800E+00 0.177670E+01 0.208220E+01
35 29.800 -0.114500E+00 0.185300E+00 0.169870E+01 0.209170E+01
36 30.000 -0.106300E+00 0.168200E+00 0.162590E+01 0.210040E+01
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Table 5: $(1)^3\Sigma^+ - (1-7)^3\Sigma^+$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
4.400	0.407000E-01	0.344570E+01	-0.125760E+01	0.542900E+00	0.756800E+00	0.454000E+00	-0.162600E+00
4.600	0.942000E-01	0.360480E+01	-0.105530E+01	0.563700E+00	0.755300E+00	0.367200E+00	-0.180500E+00
4.800	0.142700E+00	0.381910E+01	-0.474900E+00	0.569300E+00	0.721800E+00	0.303600E+00	-0.196100E+00
5.000	0.184100E+00	0.391720E+01	-0.421800E+00	0.562200E+00	0.670600E+00	0.260000E+00	-0.210400E+00
5.200	0.217100E+00	0.387480E+01	-0.109520E+01	0.546400E+00	0.613100E+00	0.229100E+00	-0.223900E+00
5.400	0.241400E+00	0.385000E+01	-0.142870E+01	0.525700E+00	0.555800E+00	0.205100E+00	-0.236900E+00
5.600	0.257300E+00	0.387120E+01	-0.157280E+01	0.503200E+00	0.502400E+00	0.184200E+00	-0.249100E+00
5.800	0.265200E+00	0.392000E+01	-0.162180E+01	0.481100E+00	0.454700E+00	0.164400E+00	-0.260000E+00
6.000	0.266400E+00	0.398120E+01	-0.161910E+01	0.460900E+00	0.413100E+00	0.145100E+00	-0.269200E+00
6.200	0.261800E+00	0.404560E+01	-0.158620E+01	0.443100E+00	0.377700E+00	0.126300E+00	-0.276400E+00
6.800	0.225100E+00	0.421960E+01	-0.139730E+01	0.406200E+00	0.305800E+00	0.748000E-01	-0.286500E+00
7.000	0.208300E+00	0.426580E+01	-0.131920E+01	0.398900E+00	0.292200E+00	0.586000E-01	-0.288000E+00
7.400	0.172200E+00	0.433790E+01	-0.115390E+01	0.390700E+00	0.280000E+00	0.218000E-01	-0.296100E+00
7.600	0.153900E+00	0.436400E+01	-0.106910E+01	0.389400E+00	0.282100E+00	0.360000E-02	-0.311700E+00
7.800	0.136000E+00	0.438390E+01	-0.983900E+00	0.389700E+00	0.290900E+00	0.413000E-01	-0.361400E+00
8.000	0.118800E+00	0.439780E+01	-0.898800E+00	0.391500E+00	0.308800E+00	0.104600E+00	-0.587400E+00
8.200	0.102400E+00	0.440610E+01	-0.814000E+00	0.394800E+00	0.340400E+00	0.221400E+00	-0.667300E+00
8.400	0.870000E-01	0.440940E+01	-0.729700E+00	0.399600E+00	0.394000E+00	0.394000E+00	-0.562000E+00
8.600	0.728000E-01	0.440810E+01	-0.645600E+00	0.406100E+00	0.482500E+00	0.490300E+00	-0.421900E+00
8.800	0.597000E-01	0.440250E+01	-0.561600E+00	0.414700E+00	0.608000E+00	0.448600E+00	-0.331700E+00
9.000	0.477000E-01	0.439310E+01	-0.477300E+00	0.426200E+00	0.726200E+00	0.325100E+00	-0.282700E+00
9.200	0.369000E-01	0.438020E+01	-0.392100E+00	0.441900E+00	0.797400E+00	0.209200E+00	-0.254800E+00
9.400	0.273000E-01	0.436430E+01	-0.305500E+00	0.464000E+00	0.835300E+00	0.132700E+00	-0.237900E+00
9.800	0.113000E-01	0.432470E+01	-0.125100E+00	0.550600E+00	0.853300E+00	0.544000E-01	-0.220000E+00
10.000	0.490000E-02	0.430160E+01	-0.299000E-01	0.644100E+00	0.814900E+00	0.336000E-01	-0.215200E+00
10.200	-0.600000E-03	0.427660E+01	0.693000E-01	0.807300E+00	0.683200E+00	0.191000E-01	-0.212000E+00
10.400	-0.520000E-02	0.425010E+01	0.172700E+00	0.991700E+00	0.405300E+00	0.850000E-02	-0.209800E+00
10.600	-0.900000E-02	0.422210E+01	0.280200E+00	0.106770E+01	0.153300E+00	0.700000E-03	-0.208400E+00
10.800	-0.121000E-01	0.419300E+01	0.390800E+00	0.107850E+01	-0.191000E-01	-0.520000E-02	-0.207500E+00
11.000	-0.145000E-01	0.416290E+01	0.503200E+00	0.106940E+01	-0.495000E-01	-0.960000E-02	-0.207100E+00
11.200	-0.163000E-01	0.413200E+01	0.615500E+00	0.105090E+01	-0.867000E-01	-0.128000E-01	-0.207100E+00
11.400	-0.176000E-01	0.410050E+01	0.725600E+00	0.102530E+01	-0.107600E+00	-0.151000E-01	-0.207500E+00
11.600	-0.184000E-01	0.406870E+01	0.831700E+00	0.994300E+00	-0.119200E+00	-0.167000E-01	-0.208300E+00
11.800	-0.189000E-01	0.403650E+01	0.932300E+00	0.959300E+00	-0.125000E+00	-0.175000E-01	-0.209500E+00
12.000	-0.190000E-01	0.400430E+01	0.102670E+01	0.921900E+00	-0.127200E+00	-0.177000E-01	-0.211000E+00
12.200	-0.188000E-01	0.397220E+01	0.111450E+01	0.883500E+00	-0.126800E+00	-0.174000E-01	-0.212800E+00
12.400	-0.183000E-01	0.394020E+01	0.119590E+01	0.845100E+00	-0.124700E+00	-0.166000E-01	-0.215000E+00
12.600	-0.177000E-01	0.390850E+01	0.127120E+01	0.807600E+00	-0.121500E+00	-0.154000E-01	-0.217400E+00
12.800	-0.169000E-01	0.387730E+01	0.134080E+01	0.771300E+00	-0.117500E+00	-0.137000E-01	-0.220100E+00
13.000	-0.160000E-01	0.384670E+01	0.140530E+01	0.736600E+00	-0.113000E+00	-0.115000E-01	-0.223000E+00
13.200	-0.150000E-01	0.381670E+01	0.146510E+01	0.703500E+00	-0.108200E+00	-0.890000E-02	-0.226100E+00
13.400	-0.139000E-01	0.378740E+01	0.152060E+01	0.672100E+00	-0.103100E+00	-0.570000E-02	-0.229200E+00
13.600	-0.128000E-01	0.375890E+01	0.157220E+01	0.642200E+00	-0.981000E-01	-0.170000E-02	-0.232400E+00
13.800	-0.117000E-01	0.373120E+01	0.162020E+01	0.614000E+00	-0.930000E-01	0.340000E-02	-0.235500E+00
14.000	-0.105000E-01	0.370440E+01	0.166500E+01	0.587100E+00	-0.879000E-01	0.103000E-01	-0.238400E+00
14.200	-0.930000E-02	0.367850E+01	0.170680E+01	0.561600E+00	-0.830000E-01	0.210000E-01	-0.240700E+00
14.400	-0.820000E-02	0.365360E+01	0.174590E+01	0.537300E+00	-0.782000E-01	0.399000E-01	-0.241300E+00
14.600	-0.710000E-02	0.362960E+01	0.178230E+01	0.514200E+00	-0.735000E-01	0.825000E-01	-0.233100E+00
14.800	-0.600000E-02	0.360660E+01	0.181640E+01	0.492200E+00	-0.689000E-01	0.176500E+00	-0.176900E+00
15.000	-0.490000E-02	0.358450E+01	0.184830E+01	0.471100E+00	-0.645000E-01	0.232800E+00	-0.972000E-01
15.200	-0.390000E-02	0.356330E+01	0.187820E+01	0.451100E+00	-0.603000E-01	0.246600E+00	-0.625000E-01
15.400	-0.290000E-02	0.354300E+01	0.190620E+01	0.432000E+00	-0.562000E-01	0.252200E+00	-0.463000E-01
15.600	-0.200000E-02	0.352350E+01	0.193240E+01	0.413700E+00	-0.522000E-01	0.255500E+00	-0.371000E-01
15.800	-0.110000E-02	0.350500E+01	0.195700E+01	0.396200E+00	-0.484000E-01	0.257800E+00	-0.310000E-01
16.200	0.500000E-03	0.347030E+01	0.200170E+01	0.363600E+00	-0.413000E-01	0.261100E+00	-0.233000E-01
16.400	0.120000E-02	0.345400E+01	0.202210E+01	0.348400E+00	-0.379000E-01	0.262200E+00	-0.207000E-01
16.600	0.190000E-02	0.343850E+01	0.204130E+01	0.333800E+00	-0.348000E-01	0.263100E+00	-0.186000E-01
16.800	0.260000E-02	0.342370E+01	0.205930E+01	0.320000E+00	-0.317000E-01	0.263800E+00	-0.168000E-01
17.000	0.320000E-02	0.340960E+01	0.207630E+01	0.306700E+00	-0.289000E-01	0.264300E+00	-0.153000E-01
17.200	0.370000E-02	0.339600E+01	0.209240E+01	0.294100E+00	-0.261000E-01	0.264700E+00	-0.144000E-01
17.400	0.430000E-02	0.338310E+01	0.210750E+01	0.282100E+00	-0.236000E-01	0.264900E+00	-0.129000E-01
17.600	0.470000E-02	0.337070E+01	0.212180E+01	0.270600E+00	-0.211000E-01	0.265000E+00	-0.119000E-01
17.800	0.520000E-02	0.335880E+01	0.213540E+01	0.259600E+00	-0.188000E-01	0.265000E+00	-0.111000E-01
18.000	0.560000E-02	0.334750E+01	0.214820E+01	0.249200E+00	-0.167000E-01	0.264800E+00	-0.103000E-01
18.600	0.670000E-02	0.331610E+01	0.218290E+01	0.220700E+00	-0.111000E-01	0.264000E+00	-0.860000E-02
19.000	0.720000E-02	0.329730E+01	0.220330E+01	0.203800E+00	-0.800000E-02	0.263100E+00	-0.760000E-02
19.200	0.740000E-02	0.328850E+01	0.221270E+01	0.196000E+00	-0.660000E-02	0.262600E+00	-0.720000E-02
19.400	0.770000E-02	0.327990E+01	0.222180E+01	0.188500E+00	-0.540000E-02	0.262100E+00	-0.680000E-02
19.800	0.800000E-02	0.326390E+01	0.223860E+01	0.174600E+00	-0.320000E-02	0.261000E+00	-0.600000E-02
20.000	0.820000E-02	0.325630E+01	0.224650E+01	0.168200E+00	-0.230000E-02	0.260500E+00	-0.560000E-02
20.400	0.840000E-02	0.324200E+01	0.226120E+01	0.156100E+00	-0.700000E-03	0.259300E+00	-0.470000E-02
20.600	0.850000E-02	0.323520E+01	0.226810E+01	0.150500E+00	0.000000E+00	0.258700E+00	-0.420000E-02
21.600	0.880000E-02	0.320480E+01	0.229870E+01	0.126000E+00	0.240000E-02	0.256000E+00	-0.160000E-02
22.400	0.890000E-02	0.318400E+01	0.231920E+01	0.110100E+00	0.340000E-02	0.254000E+00	-0.600000E-03
22.600	0.890000E-02	0.317930E+01	0.232390E+01	0.106500E+00	0.360000E-02	0.253600E+00	0.110000E-02
22.800	0.890000E-02	0.317470E+01	0.232840E+01	0.103100E+00	0.370000E-02	0.253200E+00	0.150000E-02

23.000	0.890000E-02	0.317020E+01	0.233270E+01	0.998000E-01	0.380000E-02	0.252800E+00	0.200000E-02
23.200	0.880000E-02	0.316590E+01	0.233690E+01	0.967000E-01	0.390000E-02	0.252400E+00	0.240000E-02
23.800	0.870000E-02	0.315380E+01	0.234870E+01	0.880000E-01	0.410000E-02	0.251500E+00	0.350000E-02
24.000	0.870000E-02	0.315000E+01	0.235230E+01	0.853000E-01	0.410000E-02	0.251200E+00	0.370000E-02
24.200	0.870000E-02	0.314630E+01	0.235580E+01	0.828000E-01	0.410000E-02	0.250900E+00	0.400000E-02
24.400	0.860000E-02	0.314270E+01	0.235930E+01	0.803000E-01	0.410000E-02	0.250700E+00	0.430000E-02
24.600	0.860000E-02	0.313930E+01	0.236260E+01	0.779000E-01	0.410000E-02	0.250500E+00	0.450000E-02
24.800	0.850000E-02	0.313590E+01	0.236580E+01	0.756000E-01	0.400000E-02	0.250300E+00	0.470000E-02
25.000	0.850000E-02	0.313270E+01	0.236890E+01	0.734000E-01	0.400000E-02	0.250100E+00	0.490000E-02
25.200	0.840000E-02	0.312950E+01	0.237190E+01	0.712000E-01	0.400000E-02	0.250000E+00	0.500000E-02
25.400	0.830000E-02	0.312650E+01	0.237480E+01	0.692000E-01	0.390000E-02	0.249800E+00	0.510000E-02
25.600	0.830000E-02	0.312350E+01	0.237760E+01	0.672000E-01	0.390000E-02	0.249700E+00	0.520000E-02
25.800	0.820000E-02	0.312060E+01	0.238030E+01	0.652000E-01	0.380000E-02	0.249600E+00	0.530000E-02
26.000	0.820000E-02	0.311780E+01	0.238300E+01	0.634000E-01	0.380000E-02	0.249500E+00	0.530000E-02
26.200	0.810000E-02	0.311510E+01	0.238560E+01	0.616000E-01	0.370000E-02	0.249400E+00	0.540000E-02
26.400	0.800000E-02	0.311240E+01	0.238810E+01	0.598000E-01	0.360000E-02	0.249300E+00	0.550000E-02
26.600	0.800000E-02	0.310990E+01	0.239050E+01	0.581000E-01	0.360000E-02	0.249200E+00	0.550000E-02
26.800	0.790000E-02	0.310740E+01	0.239280E+01	0.564000E-01	0.350000E-02	0.249200E+00	0.550000E-02
27.000	0.790000E-02	0.310490E+01	0.239510E+01	0.548000E-01	0.350000E-02	0.249100E+00	0.550000E-02
27.200	0.780000E-02	0.310260E+01	0.239740E+01	0.533000E-01	0.340000E-02	0.249100E+00	0.550000E-02
27.400	0.770000E-02	0.310030E+01	0.239950E+01	0.518000E-01	0.330000E-02	0.249000E+00	0.550000E-02
27.600	0.770000E-02	0.309800E+01	0.240160E+01	0.503000E-01	0.330000E-02	0.249000E+00	0.550000E-02
27.800	0.760000E-02	0.309580E+01	0.240360E+01	0.489000E-01	0.320000E-02	0.249000E+00	0.540000E-02
28.000	0.750000E-02	0.309370E+01	0.240560E+01	0.475000E-01	0.320000E-02	0.249000E+00	0.540000E-02
28.200	0.750000E-02	0.309160E+01	0.240750E+01	0.462000E-01	0.310000E-02	0.249000E+00	0.540000E-02
28.400	0.740000E-02	0.308960E+01	0.240940E+01	0.449000E-01	0.300000E-02	0.249000E+00	0.530000E-02
28.600	0.730000E-02	0.308770E+01	0.241120E+01	0.436000E-01	0.300000E-02	0.249000E+00	0.530000E-02
28.800	0.730000E-02	0.308580E+01	0.241300E+01	0.424000E-01	0.290000E-02	0.249000E+00	0.530000E-02
29.000	0.720000E-02	0.308390E+01	0.241470E+01	0.412000E-01	0.290000E-02	0.249000E+00	0.530000E-02
29.200	0.710000E-02	0.308210E+01	0.241640E+01	0.400000E-01	0.280000E-02	0.249100E+00	0.530000E-02
29.400	0.710000E-02	0.308030E+01	0.241800E+01	0.389000E-01	0.280000E-02	0.249100E+00	0.520000E-02
29.600	0.700000E-02	0.307860E+01	0.241960E+01	0.378000E-01	0.270000E-02	0.249100E+00	0.520000E-02
29.800	0.690000E-02	0.307690E+01	0.242110E+01	0.367000E-01	0.270000E-02	0.249100E+00	0.520000E-02
30.000	0.690000E-02	0.307460E+01	0.242220E+01	0.357000E-01	0.260000E-02	0.249100E+00	0.520000E-02
30.400	0.680000E-02	0.307110E+01	0.242560E+01	0.337000E-01	0.250000E-02	0.249200E+00	0.520000E-02

Table 6: $(2)^3\Sigma^+ - (2-7)^3\Sigma^+$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
4.400	0.193630E+01	0.934800E+00	0.365730E+01	0.240800E+00	-0.872800E+00	-0.203980E+01
4.600	0.184180E+01	0.142280E+01	0.405400E+01	0.163800E+00	-0.655500E+00	-0.211620E+01
4.800	0.124430E+01	0.218810E+01	0.461750E+01	0.150000E+00	-0.329200E+00	-0.203810E+01
5.000	0.290000E-02	0.271050E+01	0.500820E+01	0.659300E+00	0.455000E-01	-0.172310E+01
5.200	-0.103000E+01	0.265640E+01	0.499200E+01	0.106200E+01	0.300900E+00	-0.138270E+01
5.400	-0.155490E+01	0.248720E+01	0.483280E+01	0.128160E+01	0.443500E+00	-0.116620E+01
5.600	-0.180010E+01	0.238570E+01	0.467860E+01	0.139120E+01	0.539400E+00	-0.103660E+01
5.800	-0.191190E+01	0.234990E+01	0.455630E+01	0.144070E+01	0.618600E+00	-0.949700E+00
6.000	-0.195490E+01	0.235750E+01	0.446430E+01	0.145570E+01	0.689500E+00	-0.882500E+00
6.200	-0.195920E+01	0.239240E+01	0.439670E+01	0.145030E+01	0.753100E+00	-0.824500E+00
6.800	-0.186460E+01	0.257750E+01	0.428730E+01	0.138220E+01	0.883200E+00	-0.671400E+00
7.000	-0.181690E+01	0.265180E+01	0.426800E+01	0.135660E+01	0.899800E+00	-0.620800E+00
7.400	-0.171410E+01	0.280710E+01	0.423650E+01	0.132190E+01	0.872800E+00	-0.491400E+00
7.600	-0.166220E+01	0.288590E+01	0.421920E+01	0.132160E+01	0.812000E+00	-0.372900E+00
7.800	-0.161140E+01	0.296430E+01	0.419810E+01	0.134090E+01	0.691800E+00	-0.878000E-01
8.000	-0.156230E+01	0.304160E+01	0.417080E+01	0.139090E+01	0.456600E+00	0.127700E+01
8.200	-0.151550E+01	0.311700E+01	0.413540E+01	0.148930E+01	-0.196000E-01	0.260370E+01
8.400	-0.147130E+01	0.318960E+01	0.408980E+01	0.166760E+01	-0.802400E+00	0.258600E+01
8.600	-0.142980E+01	0.325800E+01	0.403150E+01	0.197240E+01	-0.134660E+01	0.225370E+01
8.800	-0.139110E+01	0.332100E+01	0.395750E+01	0.241580E+01	-0.130070E+01	0.198030E+01
9.000	-0.135510E+01	0.337670E+01	0.386370E+01	0.285480E+01	-0.889100E+00	0.181100E+01
9.200	-0.132170E+01	0.342280E+01	0.374350E+01	0.316940E+01	-0.476700E+00	0.170160E+01
9.400	-0.129080E+01	0.345700E+01	0.358500E+01	0.342130E+01	-0.194700E+00	0.162490E+01
9.800	-0.123550E+01	0.347720E+01	0.303200E+01	0.399830E+01	-0.121100E+00	0.152100E+01
10.000	-0.121060E+01	0.345680E+01	0.245450E+01	0.441630E+01	-0.220000E+00	0.148280E+01
10.200	-0.118720E+01	0.341160E+01	0.131760E+01	0.492240E+01	-0.300900E+00	0.144990E+01
10.400	-0.116500E+01	0.333900E+01	0.509500E+00	0.512390E+01	-0.370700E+00	0.142080E+01
10.600	-0.114380E+01	0.323760E+01	0.198210E+01	0.482170E+01	-0.433400E+00	0.139430E+01
10.800	-0.112310E+01	0.310790E+01	0.280220E+01	0.448200E+01	-0.491300E+00	0.136960E+01
11.000	-0.110280E+01	0.295270E+01	0.330410E+01	0.422520E+01	-0.545700E+00	0.134600E+01
11.200	-0.108260E+01	0.277750E+01	0.365800E+01	0.402920E+01	-0.597000E+00	0.132290E+01
11.400	-0.106230E+01	0.258930E+01	0.392880E+01	0.387170E+01	-0.645800E+00	0.129990E+01
11.600	-0.104170E+01	0.239620E+01	0.414330E+01	0.373970E+01	-0.691900E+00	0.127650E+01
11.800	-0.102070E+01	0.220540E+01	0.431480E+01	0.362570E+01	-0.735400E+00	0.125250E+01
12.000	-0.999100E+00	0.202280E+01	0.445120E+01	0.352510E+01	-0.776200E+00	0.122780E+01
12.200	-0.976900E+00	0.185230E+01	0.455870E+01	0.343510E+01	-0.814000E+00	0.120220E+01
12.400	-0.954100E+00	0.169600E+01	0.464240E+01	0.335390E+01	-0.848500E+00	0.117580E+01
12.600	-0.930600E+00	0.155460E+01	0.470660E+01	0.328000E+01	-0.879700E+00	0.114880E+01
12.800	-0.906500E+00	0.142750E+01	0.475490E+01	0.321240E+01	-0.907100E+00	0.112140E+01
13.000	-0.881800E+00	0.131390E+01	0.479040E+01	0.315040E+01	-0.930600E+00	0.109400E+01
13.200	-0.856700E+00	0.121250E+01	0.481540E+01	0.309340E+01	-0.949900E+00	0.106690E+01
13.400	-0.831100E+00	0.112200E+01	0.483200E+01	0.304090E+01	-0.964400E+00	0.104100E+01
13.600	-0.805200E+00	0.104110E+01	0.484180E+01	0.299250E+01	-0.973500E+00	0.101730E+01
13.800	-0.779000E+00	0.968400E+00	0.484590E+01	0.294790E+01	-0.975900E+00	0.997400E+00
14.000	-0.752700E+00	0.903000E+00	0.484550E+01	0.290690E+01	-0.968800E+00	0.984500E+00
14.200	-0.726400E+00	0.844000E+00	0.484130E+01	0.286930E+01	-0.945800E+00	0.985300E+00
14.400	-0.700100E+00	0.790400E+00	0.483390E+01	0.283500E+01	-0.887800E+00	0.101590E+01
14.600	-0.674000E+00	0.741700E+00	0.482380E+01	0.280380E+01	-0.720000E+00	0.112010E+01
14.800	-0.648200E+00	0.697100E+00	0.481150E+01	0.277550E+01	-0.204100E+00	0.129720E+01
15.000	-0.622600E+00	0.656300E+00	0.479730E+01	0.275020E+01	-0.266200E+00	0.126660E+01
15.200	-0.597500E+00	0.618800E+00	0.478130E+01	0.272760E+01	-0.410000E+00	0.120700E+01
15.400	-0.572800E+00	0.584200E+00	0.476400E+01	0.270780E+01	-0.450900E+00	0.117110E+01
15.600	-0.548700E+00	0.552200E+00	0.474530E+01	0.269060E+01	-0.457200E+00	0.114700E+01
15.800	-0.525100E+00	0.522700E+00	0.472550E+01	0.267590E+01	-0.449100E+00	0.112890E+01
16.200	-0.479800E+00	0.469700E+00	0.468320E+01	0.265390E+01	-0.415000E+00	0.110040E+01
16.400	-0.458100E+00	0.445900E+00	0.466080E+01	0.264630E+01	-0.394200E+00	0.108790E+01
16.600	-0.437100E+00	0.423700E+00	0.463780E+01	0.264090E+01	-0.372400E+00	0.107600E+01
16.800	-0.416800E+00	0.403100E+00	0.461420E+01	0.263750E+01	-0.350500E+00	0.106490E+01
17.000	-0.397300E+00	0.383700E+00	0.459010E+01	0.263600E+01	-0.328600E+00	0.105380E+01
17.200	-0.378400E+00	0.365700E+00	0.456570E+01	0.263640E+01	-0.307000E+00	0.104250E+01
17.400	-0.360300E+00	0.348700E+00	0.454090E+01	0.263840E+01	-0.286000E+00	0.103160E+01
17.600	-0.342900E+00	0.332800E+00	0.451580E+01	0.264190E+01	-0.265700E+00	0.102070E+01
17.800	-0.326200E+00	0.317900E+00	0.449060E+01	0.264690E+01	-0.246200E+00	0.100990E+01
18.000	-0.310200E+00	0.303900E+00	0.446520E+01	0.265310E+01	-0.227500E+00	0.999000E+00
18.600	-0.266400E+00	0.266600E+00	0.438920E+01	0.267820E+01	-0.176800E+00	0.964900E+00
19.000	-0.240400E+00	0.245100E+00	0.433920E+01	0.269880E+01	-0.147500E+00	0.940200E+00
19.200	-0.228300E+00	0.235300E+00	0.431460E+01	0.271000E+01	-0.134200E+00	0.927000E+00
19.400	-0.216800E+00	0.226000E+00	0.429030E+01	0.272150E+01	-0.121700E+00	0.913200E+00
19.800	-0.195600E+00	0.208700E+00	0.424290E+01	0.274540E+01	-0.992000E-01	0.884000E+00
20.000	-0.185700E+00	0.200800E+00	0.421990E+01	0.275750E+01	-0.892000E-01	0.868500E+00
20.400	-0.167600E+00	0.186100E+00	0.417540E+01	0.278180E+01	-0.712000E-01	0.836900E+00
20.600	-0.159200E+00	0.179200E+00	0.415400E+01	0.279380E+01	-0.633000E-01	0.821000E+00
21.600	-0.123700E+00	0.149700E+00	0.405630E+01	0.285050E+01	-0.324000E-01	0.746200E+00
22.400	-0.101800E+00	0.130500E+00	0.398970E+01	0.288980E+01	-0.164000E-01	0.697200E+00
22.600	-0.971000E-01	0.126200E+00	0.397470E+01	0.289860E+01	-0.134000E-01	0.686400E+00
22.800	-0.926000E-01	0.122100E+00	0.396030E+01	0.290710E+01	-0.107000E-01	0.676200E+00

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3 23.000 -0.884000E-01 0.118100E+00 0.394650E+01 0.291520E+01 -0.820000E-02 0.666500E+00
4 23.200 -0.844000E-01 0.114400E+00 0.393330E+01 0.292290E+01 -0.610000E-02 0.657500E+00
5 23.800 -0.737000E-01 0.104000E+00 0.389720E+01 0.294360E+01 -0.100000E-02 0.633800E+00
6 24.200 -0.675000E-01 0.977000E-01 0.387590E+01 0.295560E+01 0.110000E-02 0.622400E+00
7 24.400 -0.646000E-01 0.947000E-01 0.386590E+01 0.296100E+01 0.210000E-02 0.616600E+00
8 24.600 -0.619000E-01 0.919000E-01 0.385650E+01 0.296620E+01 0.290000E-02 0.611200E+00
9 24.800 -0.594000E-01 0.892000E-01 0.384750E+01 0.297100E+01 0.360000E-02 0.606000E+00
10 25.000 -0.570000E-01 0.866000E-01 0.383890E+01 0.297560E+01 0.420000E-02 0.601400E+00
11 25.200 -0.547000E-01 0.840000E-01 0.383080E+01 0.297980E+01 0.460000E-02 0.597300E+00
12 25.400 -0.525000E-01 0.816000E-01 0.382300E+01 0.298380E+01 0.500000E-02 0.593600E+00
13 25.600 -0.504000E-01 0.793000E-01 0.381560E+01 0.298750E+01 0.530000E-02 0.590100E+00
14 25.800 -0.485000E-01 0.770000E-01 0.380860E+01 0.299100E+01 0.560000E-02 0.587000E+00
15 26.000 -0.466000E-01 0.748000E-01 0.380200E+01 0.299420E+01 0.570000E-02 0.584300E+00
16 26.200 -0.449000E-01 0.727000E-01 0.379560E+01 0.299730E+01 0.580000E-02 0.581800E+00
17 26.400 -0.432000E-01 0.707000E-01 0.378960E+01 0.300010E+01 0.590000E-02 0.579600E+00
18 26.600 -0.416000E-01 0.687000E-01 0.378390E+01 0.300270E+01 0.580000E-02 0.578000E+00
19 26.800 -0.401000E-01 0.669000E-01 0.377840E+01 0.300510E+01 0.580000E-02 0.576300E+00
20 27.000 -0.386000E-01 0.650000E-01 0.377320E+01 0.300730E+01 0.570000E-02 0.575000E+00
21 27.200 -0.373000E-01 0.633000E-01 0.376830E+01 0.300940E+01 0.560000E-02 0.574000E+00
22 27.400 -0.360000E-01 0.616000E-01 0.376360E+01 0.301130E+01 0.550000E-02 0.573100E+00
23 27.600 -0.347000E-01 0.599000E-01 0.375910E+01 0.301310E+01 0.530000E-02 0.572400E+00
24 27.800 -0.335000E-01 0.583000E-01 0.375480E+01 0.301480E+01 0.520000E-02 0.571800E+00
25 28.000 -0.324000E-01 0.568000E-01 0.375070E+01 0.301630E+01 0.500000E-02 0.571500E+00
26 28.200 -0.313000E-01 0.553000E-01 0.374680E+01 0.301770E+01 0.480000E-02 0.571400E+00
27 28.400 -0.303000E-01 0.539000E-01 0.374310E+01 0.301890E+01 0.460000E-02 0.571400E+00
28 28.600 -0.293000E-01 0.525000E-01 0.373960E+01 0.302010E+01 0.450000E-02 0.571400E+00
29 28.800 -0.284000E-01 0.512000E-01 0.373620E+01 0.302120E+01 0.430000E-02 0.571500E+00
30 29.000 -0.275000E-01 0.498000E-01 0.373290E+01 0.302210E+01 0.400000E-02 0.572500E+00
31 29.200 -0.266000E-01 0.486000E-01 0.372980E+01 0.302300E+01 0.380000E-02 0.573200E+00
32 29.400 -0.258000E-01 0.474000E-01 0.372680E+01 0.302380E+01 0.360000E-02 0.573800E+00
33 29.600 -0.250000E-01 0.462000E-01 0.372390E+01 0.302460E+01 0.350000E-02 0.574300E+00
34 29.800 -0.243000E-01 0.450000E-01 0.372120E+01 0.302520E+01 0.330000E-02 0.575400E+00
35 30.000 -0.235000E-01 0.439000E-01 0.371850E+01 0.302580E+01 0.310000E-02 0.576100E+00
36 30.400 -0.222000E-01 0.418000E-01 0.371270E+01 0.302610E+01 0.280000E-02 0.577900E+00
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Table 7: $(3)^3\Sigma^+-(3-7)^3\Sigma^+$ transitions

R	3-3	3-4	3-5	3-6	3-7
4.400	-0.236390E+01	-0.411070E+01	0.123740E+01	-0.140150E+01	0.680700E+00
4.600	-0.224090E+01	-0.353860E+01	0.158360E+01	-0.131140E+01	0.895000E+00
4.800	-0.160960E+01	-0.249070E+01	0.184490E+01	-0.123570E+01	0.133200E+01
5.000	-0.331200E+00	-0.103190E+01	0.194370E+01	-0.110170E+01	0.188920E+01
5.200	0.738900E+00	-0.110700E+00	0.194370E+01	-0.892900E+00	0.227150E+01
5.400	0.129740E+01	-0.753400E+00	0.197390E+01	-0.673300E+00	0.247620E+01
5.600	0.157030E+01	-0.110820E+01	0.205230E+01	-0.463500E+00	0.258700E+01
5.800	0.170230E+01	-0.131430E+01	0.216450E+01	-0.269100E+00	0.264220E+01
6.000	0.175730E+01	-0.143740E+01	0.229790E+01	-0.974000E-01	0.265820E+01
6.200	0.176560E+01	-0.150990E+01	0.244390E+01	-0.427000E-01	0.264510E+01
6.800	0.163950E+01	-0.156530E+01	0.290570E+01	-0.217100E+00	0.250950E+01
7.000	0.156920E+01	-0.155360E+01	0.305610E+01	-0.187900E+00	0.245010E+01
7.400	0.140760E+01	-0.150910E+01	0.333410E+01	-0.340000E-02	0.232240E+01
7.600	0.132110E+01	-0.148120E+01	0.345540E+01	0.151100E+00	0.224680E+01
7.800	0.123340E+01	-0.145230E+01	0.355860E+01	0.350700E+00	0.212750E+01
8.000	0.114600E+01	-0.142360E+01	0.363700E+01	0.607100E+00	0.148010E+01
8.200	0.106030E+01	-0.139650E+01	0.367660E+01	0.946000E+00	0.251000E+00
8.400	0.977600E+00	-0.137170E+01	0.364740E+01	0.138350E+01	0.265800E+00
8.600	0.899000E+00	-0.134990E+01	0.347530E+01	0.191830E+01	0.623600E+00
8.800	0.825400E+00	-0.133140E+01	0.302860E+01	0.262010E+01	0.975000E+00
9.000	0.758000E+00	-0.131670E+01	0.233060E+01	0.327560E+01	0.128220E+01
9.200	0.697600E+00	-0.130600E+01	0.170060E+01	0.364150E+01	0.156120E+01
9.400	0.645200E+00	-0.130010E+01	0.126740E+01	0.379600E+01	0.181950E+01
9.800	0.567700E+00	-0.130870E+01	0.729200E+00	0.385370E+01	0.227760E+01
10.000	0.543700E+00	-0.132750E+01	0.481200E+00	0.382910E+01	0.247390E+01
10.200	0.530200E+00	-0.133810E+01	0.133800E+00	0.378600E+01	0.264480E+01
10.400	0.526800E+00	-0.124590E+01	0.319300E+00	0.372950E+01	0.278740E+01
10.600	0.532700E+00	-0.106580E+01	0.614300E+00	0.366260E+01	0.289910E+01
10.800	0.546700E+00	-0.921400E+00	0.726200E+00	0.358780E+01	0.297800E+01
11.000	0.566400E+00	-0.817600E+00	0.755800E+00	0.350710E+01	0.302350E+01
11.200	0.589500E+00	-0.736300E+00	0.749100E+00	0.342270E+01	0.303670E+01
11.400	0.613200E+00	-0.666800E+00	0.724500E+00	0.333730E+01	0.302080E+01
11.600	0.635300E+00	-0.604100E+00	0.690800E+00	0.325310E+01	0.298020E+01
11.800	0.654100E+00	-0.545800E+00	0.653000E+00	0.317240E+01	0.292030E+01
12.000	0.668600E+00	-0.491000E+00	0.614100E+00	0.309660E+01	0.284660E+01
12.200	0.678600E+00	-0.439400E+00	0.576000E+00	0.302630E+01	0.276400E+01
12.400	0.684000E+00	-0.390800E+00	0.539600E+00	0.296160E+01	0.267620E+01
12.600	0.685200E+00	-0.345100E+00	0.505700E+00	0.290150E+01	0.258660E+01
12.800	0.682800E+00	-0.302300E+00	0.474300E+00	0.284510E+01	0.249730E+01
13.000	0.677000E+00	-0.262000E+00	0.445600E+00	0.279080E+01	0.241020E+01
13.200	0.668600E+00	-0.224200E+00	0.419400E+00	0.273710E+01	0.232690E+01
13.400	0.657700E+00	-0.188600E+00	0.395400E+00	0.268190E+01	0.224930E+01
13.600	0.644900E+00	-0.155200E+00	0.373700E+00	0.262290E+01	0.217970E+01
13.800	0.630400E+00	-0.123900E+00	0.353800E+00	0.255630E+01	0.212190E+01
14.000	0.614600E+00	-0.945000E-01	0.335800E+00	0.247570E+01	0.208330E+01
14.200	0.597800E+00	-0.669000E-01	0.319300E+00	0.236680E+01	0.207890E+01
14.400	0.580100E+00	-0.412000E-01	0.304400E+00	0.218880E+01	0.214640E+01
14.600	0.561800E+00	-0.173000E-01	0.290800E+00	0.178220E+01	0.239070E+01
14.800	0.543000E+00	0.500000E-02	0.278500E+00	0.626800E+00	0.283040E+01
15.000	0.524000E+00	0.255000E-01	0.267300E+00	0.427400E+00	0.278390E+01
15.200	0.504900E+00	0.445000E-01	0.257100E+00	0.755300E+00	0.262870E+01
15.400	0.485800E+00	0.618000E-01	0.247900E+00	0.852600E+00	0.251370E+01
15.600	0.466800E+00	0.777000E-01	0.239500E+00	0.873300E+00	0.242170E+01
15.800	0.448100E+00	0.920000E-01	0.232000E+00	0.862300E+00	0.234180E+01
16.200	0.411700E+00	0.116500E+00	0.218900E+00	0.803000E+00	0.219830E+01
16.400	0.394100E+00	0.126800E+00	0.213400E+00	0.766300E+00	0.213060E+01
16.600	0.377000E+00	0.135900E+00	0.208300E+00	0.728400E+00	0.206430E+01
16.800	0.360400E+00	0.143800E+00	0.203700E+00	0.690300E+00	0.199900E+01
17.000	0.344400E+00	0.150700E+00	0.199500E+00	0.653000E+00	0.193420E+01
17.200	0.329000E+00	0.156500E+00	0.195700E+00	0.616800E+00	0.186940E+01
17.400	0.314100E+00	0.161400E+00	0.192200E+00	0.582100E+00	0.180490E+01
17.600	0.299900E+00	0.165500E+00	0.189000E+00	0.549000E+00	0.174030E+01
17.800	0.286200E+00	0.168800E+00	0.186000E+00	0.517500E+00	0.167530E+01
18.000	0.273100E+00	0.171300E+00	0.183200E+00	0.487600E+00	0.160990E+01
18.600	0.237400E+00	0.175200E+00	0.175700E+00	0.408000E+00	0.140940E+01
19.000	0.216300E+00	0.175300E+00	0.171200E+00	0.362400E+00	0.127130E+01
19.200	0.206600E+00	0.174700E+00	0.169100E+00	0.341800E+00	0.120110E+01
19.400	0.197300E+00	0.173900E+00	0.166900E+00	0.322400E+00	0.113050E+01
19.800	0.180200E+00	0.171300E+00	0.162700E+00	0.287100E+00	0.989600E+00
20.000	0.172300E+00	0.169600E+00	0.160600E+00	0.271200E+00	0.920300E+00
20.400	0.157600E+00	0.165800E+00	0.156500E+00	0.242200E+00	0.786200E+00
20.600	0.150900E+00	0.163700E+00	0.154400E+00	0.229000E+00	0.722800E+00
21.600	0.122100E+00	0.151600E+00	0.143800E+00	0.174700E+00	0.458700E+00
22.400	0.103900E+00	0.141300E+00	0.135100E+00	0.142200E+00	0.313800E+00
22.600	0.100000E+00	0.138700E+00	0.133000E+00	0.135300E+00	0.285800E+00
22.800	0.962000E-01	0.136200E+00	0.130800E+00	0.128800E+00	0.260300E+00

23.000	0.926000E-01	0.133600E+00	0.128600E+00	0.122700E+00	0.237300E+00
23.200	0.892000E-01	0.131100E+00	0.126500E+00	0.117000E+00	0.216700E+00
23.800	0.799000E-01	0.123600E+00	0.120100E+00	0.101800E+00	0.166700E+00
24.000	0.772000E-01	0.121200E+00	0.118000E+00	0.974000E-01	0.153600E+00
24.200	0.745000E-01	0.118800E+00	0.115900E+00	0.932000E-01	0.141400E+00
24.400	0.720000E-01	0.116500E+00	0.113800E+00	0.892000E-01	0.130200E+00
24.600	0.696000E-01	0.114200E+00	0.111800E+00	0.854000E-01	0.120200E+00
24.800	0.673000E-01	0.112000E+00	0.109800E+00	0.818000E-01	0.110700E+00
25.000	0.651000E-01	0.109800E+00	0.107800E+00	0.784000E-01	0.102500E+00
25.200	0.630000E-01	0.107600E+00	0.105800E+00	0.752000E-01	0.950000E-01
25.400	0.610000E-01	0.105500E+00	0.103900E+00	0.723000E-01	0.882000E-01
25.600	0.591000E-01	0.103500E+00	0.102000E+00	0.694000E-01	0.818000E-01
25.800	0.572000E-01	0.101400E+00	0.100100E+00	0.667000E-01	0.761000E-01
26.000	0.555000E-01	0.994000E-01	0.982000E-01	0.642000E-01	0.709000E-01
26.200	0.538000E-01	0.975000E-01	0.964000E-01	0.618000E-01	0.663000E-01
26.400	0.522000E-01	0.956000E-01	0.946000E-01	0.595000E-01	0.620000E-01
26.600	0.507000E-01	0.937000E-01	0.928000E-01	0.573000E-01	0.582000E-01
26.800	0.492000E-01	0.919000E-01	0.911000E-01	0.553000E-01	0.546000E-01
27.000	0.478000E-01	0.902000E-01	0.894000E-01	0.534000E-01	0.513000E-01
27.200	0.465000E-01	0.884000E-01	0.877000E-01	0.515000E-01	0.485000E-01
27.400	0.452000E-01	0.867000E-01	0.861000E-01	0.498000E-01	0.457000E-01
27.600	0.440000E-01	0.851000E-01	0.845000E-01	0.481000E-01	0.432000E-01
27.800	0.428000E-01	0.834000E-01	0.829000E-01	0.465000E-01	0.407000E-01
28.000	0.416000E-01	0.818000E-01	0.813000E-01	0.450000E-01	0.385000E-01
28.200	0.405000E-01	0.803000E-01	0.798000E-01	0.436000E-01	0.365000E-01
28.400	0.395000E-01	0.788000E-01	0.783000E-01	0.422000E-01	0.346000E-01
28.600	0.385000E-01	0.773000E-01	0.769000E-01	0.409000E-01	0.329000E-01
28.800	0.375000E-01	0.758000E-01	0.754000E-01	0.396000E-01	0.311000E-01
29.000	0.366000E-01	0.744000E-01	0.740000E-01	0.384000E-01	0.297000E-01
29.200	0.357000E-01	0.730000E-01	0.727000E-01	0.373000E-01	0.283000E-01
29.400	0.348000E-01	0.717000E-01	0.713000E-01	0.362000E-01	0.271000E-01
29.600	0.340000E-01	0.704000E-01	0.700000E-01	0.351000E-01	0.259000E-01
29.800	0.332000E-01	0.691000E-01	0.687000E-01	0.341000E-01	0.248000E-01
30.000	0.324000E-01	0.678000E-01	0.675000E-01	0.331000E-01	0.236000E-01
30.400	0.309000E-01	0.653000E-01	0.650000E-01	0.313000E-01	0.219000E-01

Table 8: $(4)^3\Sigma^+-(4-7)^3\Sigma^+$ transitions

R	4-4	4-5	4-6	4-7
4.400	0.701100E+00	-0.263880E+01	0.849020E+01	-0.138690E+01
4.600	0.922400E+00	-0.125650E+01	0.873140E+01	-0.131530E+01
4.800	0.120370E+01	-0.206700E+00	0.875070E+01	-0.117190E+01
5.000	0.151260E+01	-0.542800E+00	0.867170E+01	-0.957500E+00
5.200	0.182130E+01	-0.107020E+01	0.856110E+01	-0.678500E+00
5.400	0.211140E+01	-0.144400E+01	0.844520E+01	-0.346800E+00
5.600	0.237300E+01	-0.171250E+01	0.833000E+01	-0.203000E-01
5.800	0.260230E+01	-0.190590E+01	0.821430E+01	0.400500E+00
6.000	0.279910E+01	-0.204200E+01	0.809760E+01	0.769000E+00
6.200	0.296490E+01	-0.213070E+01	0.798220E+01	0.110370E+01
6.800	0.330180E+01	-0.215190E+01	0.768910E+01	0.179110E+01
7.000	0.336900E+01	-0.208160E+01	0.761790E+01	0.191430E+01
7.400	0.344890E+01	-0.182380E+01	0.750170E+01	0.205520E+01
7.600	0.346510E+01	-0.163540E+01	0.743670E+01	0.211470E+01
7.800	0.346670E+01	-0.140510E+01	0.733640E+01	0.226700E+01
8.000	0.345510E+01	-0.113080E+01	0.712590E+01	0.297340E+01
8.200	0.343060E+01	-0.806400E+00	0.656680E+01	0.387980E+01
8.400	0.339360E+01	-0.420300E+00	0.516720E+01	0.548380E+01
8.600	0.334410E+01	0.399000E-01	0.343020E+01	0.661290E+01
8.800	0.328160E+01	0.537000E+00	0.223900E+01	0.698760E+01
9.000	0.320460E+01	0.905800E+00	0.139200E+01	0.706960E+01
9.200	0.311000E+01	0.107050E+01	0.749500E+00	0.703990E+01
9.400	0.299170E+01	0.114310E+01	0.257100E+00	0.694800E+01
9.800	0.260910E+01	0.132430E+01	0.504600E+00	0.656810E+01
10.000	0.222390E+01	0.149600E+01	0.849000E+00	0.614910E+01
10.200	0.147330E+01	0.164020E+01	0.119350E+01	0.521330E+01
10.400	0.409300E+00	0.130660E+01	0.143500E+01	0.337400E+01
10.600	-0.160900E+00	0.648500E+00	0.149920E+01	0.160890E+01
10.800	-0.335100E+00	0.216700E+00	0.153310E+01	0.527700E+00
11.000	-0.408300E+00	-0.280000E-01	0.158850E+01	0.164500E+00
11.200	-0.460900E+00	-0.175300E+00	0.166150E+01	0.672700E+00
11.400	-0.509700E+00	-0.268400E+00	0.174250E+01	0.108360E+01
11.600	-0.557300E+00	-0.327100E+00	0.182380E+01	0.143420E+01
11.800	-0.603300E+00	-0.361500E+00	0.190020E+01	0.174190E+01
12.000	-0.646800E+00	-0.377600E+00	0.196860E+01	0.201600E+01
12.200	-0.687200E+00	-0.379500E+00	0.202750E+01	0.226260E+01
12.400	-0.724200E+00	-0.370100E+00	0.207650E+01	0.248660E+01
12.600	-0.758000E+00	-0.351800E+00	0.211560E+01	0.269200E+01
12.800	-0.788400E+00	-0.326700E+00	0.214500E+01	0.288230E+01
13.000	-0.815800E+00	-0.296100E+00	0.216470E+01	0.306050E+01
13.200	-0.840200E+00	-0.261600E+00	0.217380E+01	0.322930E+01
13.400	-0.861700E+00	-0.224300E+00	0.217080E+01	0.339140E+01
13.600	-0.880400E+00	-0.184900E+00	0.215220E+01	0.354940E+01
13.800	-0.896500E+00	-0.144300E+00	0.211150E+01	0.370730E+01
14.000	-0.909900E+00	-0.103100E+00	0.203500E+01	0.387090E+01
14.200	-0.920900E+00	-0.619000E-01	0.189120E+01	0.405180E+01
14.400	-0.929300E+00	-0.210000E-01	0.159190E+01	0.427430E+01
14.600	-0.935300E+00	0.192000E-01	0.819800E+00	0.456910E+01
14.800	-0.938900E+00	0.583000E-01	0.125150E+01	0.454520E+01
15.000	-0.940200E+00	0.962000E-01	0.293560E+01	0.376930E+01
15.200	-0.939300E+00	0.132600E+00	0.350320E+01	0.332840E+01
15.400	-0.936200E+00	0.167400E+00	0.375740E+01	0.311100E+01
15.600	-0.931100E+00	0.200400E+00	0.390650E+01	0.298390E+01
15.800	-0.924100E+00	0.231400E+00	0.400620E+01	0.289750E+01
16.200	-0.904500E+00	0.287400E+00	0.412910E+01	0.277690E+01
16.400	-0.892100E+00	0.312300E+00	0.416650E+01	0.272790E+01
16.600	-0.878300E+00	0.335000E+00	0.419230E+01	0.268150E+01
16.800	-0.863000E+00	0.355500E+00	0.420840E+01	0.263570E+01
17.000	-0.846500E+00	0.373900E+00	0.421610E+01	0.258940E+01
17.200	-0.828700E+00	0.390000E+00	0.421650E+01	0.254170E+01
17.400	-0.810000E+00	0.404100E+00	0.421040E+01	0.249150E+01
17.600	-0.790300E+00	0.416100E+00	0.419860E+01	0.243860E+01
17.800	-0.769900E+00	0.426000E+00	0.418150E+01	0.238250E+01
18.000	-0.748700E+00	0.434000E+00	0.415980E+01	0.232310E+01
18.600	-0.682400E+00	0.446800E+00	0.407170E+01	0.212380E+01
19.000	-0.636900E+00	0.447200E+00	0.399790E+01	0.197460E+01
19.200	-0.614100E+00	0.445300E+00	0.395760E+01	0.189650E+01
19.400	-0.591300E+00	0.442000E+00	0.391560E+01	0.181660E+01
19.800	-0.546300E+00	0.432000E+00	0.382740E+01	0.165450E+01
20.000	-0.524100E+00	0.425500E+00	0.378180E+01	0.157380E+01
20.400	-0.481000E+00	0.410100E+00	0.368890E+01	0.141580E+01
20.600	-0.460100E+00	0.401400E+00	0.364200E+01	0.133980E+01
21.600	-0.364100E+00	0.351100E+00	0.341090E+01	0.100380E+01
22.400	-0.299000E+00	0.307600E+00	0.323790E+01	0.791000E+00
22.600	-0.284400E+00	0.296800E+00	0.319710E+01	0.746100E+00
22.800	-0.270500E+00	0.286100E+00	0.315740E+01	0.703600E+00

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3 23.000 -0.257300E+00 0.275500E+00 0.311890E+01 0.663700E+00
4 23.200 -0.244700E+00 0.265100E+00 0.308150E+01 0.626100E+00
5 23.800 -0.210700E+00 0.235300E+00 0.297650E+01 0.526800E+00
6 24.000 -0.200400E+00 0.225900E+00 0.294370E+01 0.495700E+00
7 24.200 -0.190700E+00 0.216700E+00 0.291230E+01 0.467800E+00
8 24.400 -0.181600E+00 0.207900E+00 0.288200E+01 0.441800E+00
9 24.600 -0.173000E+00 0.199300E+00 0.285300E+01 0.417300E+00
10 24.800 -0.164800E+00 0.191000E+00 0.282510E+01 0.394000E+00
11 25.000 -0.157000E+00 0.183000E+00 0.279830E+01 0.372100E+00
12 25.200 -0.149700E+00 0.175300E+00 0.277260E+01 0.351500E+00
13 25.400 -0.142800E+00 0.167900E+00 0.274800E+01 0.331400E+00
14 25.600 -0.136300E+00 0.160800E+00 0.272450E+01 0.312900E+00
15 25.800 -0.130100E+00 0.154000E+00 0.270200E+01 0.295400E+00
16 26.000 -0.124300E+00 0.147500E+00 0.268050E+01 0.278900E+00
17 26.200 -0.118800E+00 0.141300E+00 0.265990E+01 0.262900E+00
18 26.400 -0.113600E+00 0.135300E+00 0.264040E+01 0.248400E+00
19 26.600 -0.108700E+00 0.129600E+00 0.262180E+01 0.235100E+00
20 26.800 -0.104100E+00 0.124100E+00 0.260400E+01 0.221900E+00
21 27.000 -0.998000E-01 0.118900E+00 0.258710E+01 0.209500E+00
22 27.200 -0.957000E-01 0.114000E+00 0.257110E+01 0.198000E+00
23 27.400 -0.919000E-01 0.109300E+00 0.255580E+01 0.186800E+00
24 27.600 -0.883000E-01 0.104800E+00 0.254120E+01 0.176300E+00
25 27.800 -0.850000E-01 0.100500E+00 0.252740E+01 0.166400E+00
26 28.000 -0.818000E-01 0.964000E-01 0.251430E+01 0.157000E+00
27 28.200 -0.789000E-01 0.925000E-01 0.250190E+01 0.148200E+00
28 28.400 -0.761000E-01 0.888000E-01 0.249020E+01 0.139900E+00
29 28.600 -0.735000E-01 0.853000E-01 0.247900E+01 0.132000E+00
30 28.800 -0.711000E-01 0.820000E-01 0.246850E+01 0.124800E+00
31 29.000 -0.689000E-01 0.788000E-01 0.245850E+01 0.117200E+00
32 29.200 -0.668000E-01 0.758000E-01 0.244900E+01 0.110500E+00
33 29.400 -0.648000E-01 0.730000E-01 0.244010E+01 0.104400E+00
34 29.600 -0.630000E-01 0.703000E-01 0.243170E+01 0.989000E-01
35 29.800 -0.613000E-01 0.677000E-01 0.242370E+01 0.931000E-01
36 30.000 -0.597000E-01 0.653000E-01 0.241630E+01 0.881000E-01
37 30.400 -0.569000E-01 0.607000E-01 0.240250E+01 0.789000E-01
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The following tables display the dipole moment functions between the three lowest Π states with the seven lowest Π states of **NaRb**, for singlet (Tables 1 to 3) and triplet (Tables 4 to 6) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 2.54158059 Debye. All states are identified with their number with increasing energy. When both indexes are equal, the function corresponds to the permanent dipole moment.

Table 1: (1)¹Π -(1-7)¹Π transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	-0.610100E+00	-0.374000E+00	0.776000E+00	-0.131560E+01	0.225080E+01	-0.118360E+01	-0.571700E+00
3.200	-0.659700E+00	-0.354400E+00	0.957300E+00	-0.149550E+01	0.210060E+01	-0.119600E+01	-0.623800E+00
3.400	-0.685800E+00	-0.422900E+00	0.108770E+01	-0.161190E+01	0.199790E+01	-0.115540E+01	-0.653100E+00
3.600	-0.694200E+00	-0.549700E+00	0.118580E+01	-0.169360E+01	0.191900E+01	-0.108490E+01	-0.681000E+00
3.800	-0.680300E+00	-0.715600E+00	0.125480E+01	-0.175700E+01	0.184860E+01	-0.100020E+01	-0.710000E+00
4.000	-0.641200E+00	-0.904200E+00	0.129260E+01	-0.181260E+01	0.177860E+01	-0.916400E+00	-0.738200E+00
4.200	-0.578900E+00	-0.110230E+01	0.129770E+01	-0.186510E+01	0.170690E+01	-0.845500E+00	-0.765700E+00
4.400	-0.499300E+00	-0.130140E+01	0.127270E+01	-0.191410E+01	0.163460E+01	-0.793500E+00	-0.794800E+00
4.600	-0.408500E+00	-0.149590E+01	0.122640E+01	-0.195390E+01	0.156420E+01	-0.760300E+00	-0.826700E+00
4.800	-0.312000E+00	-0.168170E+01	0.117440E+01	-0.197690E+01	0.149850E+01	-0.743000E+00	-0.861600E+00
5.000	-0.213700E+00	-0.185470E+01	0.113620E+01	-0.197770E+01	0.143930E+01	-0.736900E+00	-0.897100E+00
5.200	-0.115800E+00	-0.201120E+01	0.112730E+01	-0.195620E+01	0.138790E+01	-0.737900E+00	-0.930100E+00
5.400	-0.189000E-01	-0.214790E+01	0.115590E+01	-0.191670E+01	0.134390E+01	-0.742300E+00	-0.956600E+00
5.600	0.769000E-01	-0.226290E+01	0.122280E+01	-0.186550E+01	0.130590E+01	-0.748200E+00	-0.973000E+00
5.800	0.172200E+00	-0.235480E+01	0.132490E+01	-0.180710E+01	0.127200E+01	-0.754400E+00	-0.977300E+00
6.000	0.267600E+00	-0.242320E+01	0.145830E+01	-0.174290E+01	0.124070E+01	-0.760200E+00	-0.968900E+00
6.200	0.363700E+00	-0.246800E+01	0.161860E+01	-0.167110E+01	0.121070E+01	-0.764400E+00	-0.948300E+00
6.800	0.656400E+00	-0.246150E+01	0.220690E+01	-0.137480E+01	0.111980E+01	-0.753500E+00	-0.825500E+00
7.000	0.753200E+00	-0.241250E+01	0.241570E+01	-0.124400E+01	0.108600E+01	-0.737500E+00	-0.767800E+00
7.400	0.935700E+00	-0.224680E+01	0.281030E+01	-0.951500E+00	0.100660E+01	-0.682900E+00	-0.630900E+00
7.600	0.101670E+01	-0.213250E+01	0.298670E+01	-0.800000E+00	0.959600E+00	-0.644700E+00	-0.552900E+00
7.800	0.108710E+01	-0.200020E+01	0.314540E+01	-0.650800E+00	0.907000E+00	-0.600200E+00	-0.469400E+00
8.000	0.114440E+01	-0.185280E+01	0.328540E+01	-0.506300E+00	0.849000E+00	-0.551000E+00	-0.380700E+00
8.200	0.118640E+01	-0.169420E+01	0.340590E+01	-0.368400E+00	0.785900E+00	-0.498200E+00	-0.288600E+00
8.400	0.121190E+01	-0.152890E+01	0.350680E+01	-0.238400E+00	0.719300E+00	-0.443500E+00	-0.194600E+00
8.600	0.122040E+01	-0.136120E+01	0.358860E+01	-0.116500E+00	0.650200E+00	-0.388500E+00	-0.100600E+00
8.800	0.121240E+01	-0.119520E+01	0.365220E+01	0.300000E-02	0.580300E+00	-0.334800E+00	-0.870000E-02
9.000	0.118930E+01	-0.103470E+01	0.369920E+01	0.101700E+00	0.511400E+00	-0.283400E+00	0.793000E-01
9.200	0.115330E+01	-0.882500E+00	0.373120E+01	0.197400E+00	0.445100E+00	-0.235400E+00	0.161500E+00
9.400	0.110680E+01	-0.744000E+00	0.375030E+01	0.283800E+00	0.382800E+00	-0.191100E+00	0.236500E+00
9.800	0.992500E+00	-0.490700E+00	0.375830E+01	0.427500E+00	0.274200E+00	-0.114900E+00	0.361900E+00
10.000	0.929400E+00	-0.383300E+00	0.375130E+01	0.484200E+00	0.228900E+00	-0.825000E-01	0.411900E+00
10.200	0.865100E+00	-0.286900E+00	0.373930E+01	0.530500E+00	0.189600E+00	-0.535000E-01	0.453900E+00
10.400	0.801000E+00	-0.200900E+00	0.372380E+01	0.566600E+00	0.156100E+00	-0.272000E-01	0.488400E+00
10.600	0.738400E+00	-0.124400E+00	0.370610E+01	0.592500E+00	0.127900E+00	-0.310000E-02	0.516300E+00
10.800	0.678300E+00	-0.567000E-01	0.368700E+01	0.608700E+00	0.104400E+00	0.194000E-01	0.538200E+00
11.000	0.621200E+00	0.310000E-02	0.366740E+01	0.615900E+00	0.851000E-01	0.410000E-01	0.554600E+00
11.200	0.567500E+00	0.555000E-01	0.364780E+01	0.614900E+00	0.695000E-01	0.619000E-01	0.565900E+00
11.400	0.517500E+00	0.101200E+00	0.362850E+01	0.606500E+00	0.575000E-01	0.826000E-01	0.571900E+00
11.600	0.471300E+00	0.140800E+00	0.360980E+01	0.592000E+00	0.487000E-01	0.103100E+00	0.572100E+00
11.800	0.428800E+00	0.174800E+00	0.359190E+01	0.572300E+00	0.431000E-01	0.123500E+00	0.564800E+00
12.000	0.390000E+00	0.203600E+00	0.357480E+01	0.548500E+00	0.408000E-01	0.143700E+00	0.547200E+00
12.200	0.354700E+00	0.227700E+00	0.355860E+01	0.521800E+00	0.418000E-01	0.163300E+00	0.514200E+00
12.400	0.322600E+00	0.247500E+00	0.354320E+01	0.493000E+00	0.463000E-01	0.182000E+00	0.455900E+00
12.600	0.293700E+00	0.263500E+00	0.352860E+01	0.463100E+00	0.541000E-01	0.199400E+00	0.352700E+00
12.800	0.267600E+00	0.276100E+00	0.351480E+01	0.432900E+00	0.654000E-01	0.214900E+00	0.164900E+00
13.000	0.244100E+00	0.285600E+00	0.350180E+01	0.403100E+00	0.800000E-01	0.228000E+00	0.168900E+00
13.200	0.223100E+00	0.292400E+00	0.348940E+01	0.374200E+00	0.977000E-01	0.238500E+00	0.605800E+00
13.400	0.204200E+00	0.296800E+00	0.347760E+01	0.346500E+00	0.118000E+00	0.245900E+00	0.909800E+00
13.600	0.187400E+00	0.299100E+00	0.346650E+01	0.320400E+00	0.140600E+00	0.249900E+00	0.104410E+01
13.800	0.172300E+00	0.299700E+00	0.345590E+01	0.296100E+00	0.164900E+00	0.250400E+00	0.109440E+01
14.000	0.158900E+00	0.298700E+00	0.344570E+01	0.273600E+00	0.190500E+00	0.247400E+00	0.110840E+01
14.200	0.146900E+00	0.296400E+00	0.343610E+01	0.253000E+00	0.216600E+00	0.240900E+00	0.110540E+01
14.400	0.136100E+00	0.292900E+00	0.342690E+01	0.234100E+00	0.242800E+00	0.231400E+00	0.109440E+01
14.600	0.126600E+00	0.288600E+00	0.341800E+01	0.217000E+00	0.268600E+00	0.219000E+00	0.107910E+01
14.800	0.118000E+00	0.283400E+00	0.340960E+01	0.201500E+00	0.293600E+00	0.204300E+00	0.106160E+01
15.000	0.110400E+00	0.277700E+00	0.340150E+01	0.187400E+00	0.317300E+00	0.187800E+00	0.104270E+01
15.200	0.103600E+00	0.271400E+00	0.339370E+01	0.174700E+00	0.339600E+00	0.169900E+00	0.102330E+01
15.400	0.975000E-01	0.264700E+00	0.338630E+01	0.163300E+00	0.360300E+00	0.151400E+00	0.100370E+01
15.600	0.920000E-01	0.257700E+00	0.337910E+01	0.152900E+00	0.379300E+00	0.132500E+00	0.984300E+00
15.800	0.871000E-01	0.250500E+00	0.337220E+01	0.143500E+00	0.396600E+00	0.114000E+00	0.965700E+00
16.200	0.787000E-01	0.235800E+00	0.335910E+01	0.127300E+00	0.426200E+00	0.789000E-01	0.929900E+00
16.400	0.750000E-01	0.228300E+00	0.335290E+01	0.120300E+00	0.438800E+00	0.630000E-01	0.913200E+00
16.600	0.717000E-01	0.220900E+00	0.334700E+01	0.113900E+00	0.450000E+00	0.484000E-01	0.897600E+00
16.800	0.687000E-01	0.213600E+00	0.334120E+01	0.108100E+00	0.459900E+00	0.352000E-01	0.883100E+00
17.000	0.660000E-01	0.206300E+00	0.333570E+01	0.102700E+00	0.468700E+00	0.234000E-01	0.869700E+00

17.200	0.635000E-01	0.199100E+00	0.333030E+01	0.978000E-01	0.476500E+00	0.129000E-01	0.857600E+00
17.400	0.612000E-01	0.192100E+00	0.332510E+01	0.933000E-01	0.483400E+00	0.370000E-02	0.846600E+00
17.600	0.590000E-01	0.185300E+00	0.332010E+01	0.891000E-01	0.489500E+00	-0.430000E-02	0.836900E+00
17.800	0.571000E-01	0.178600E+00	0.331530E+01	0.852000E-01	0.494900E+00	-0.112000E-01	0.828500E+00
18.000	0.552000E-01	0.172100E+00	0.331070E+01	0.816000E-01	0.499700E+00	-0.171000E-01	0.821300E+00
18.200	0.535000E-01	0.165800E+00	0.330610E+01	0.783000E-01	0.503900E+00	-0.220000E-01	0.815400E+00
18.400	0.519000E-01	0.159700E+00	0.330180E+01	0.751000E-01	0.507700E+00	-0.262000E-01	0.810700E+00
18.600	0.504000E-01	0.153800E+00	0.329760E+01	0.722000E-01	0.511000E+00	-0.297000E-01	0.807100E+00
18.800	0.489000E-01	0.148100E+00	0.329350E+01	0.695000E-01	0.514000E+00	-0.326000E-01	0.804600E+00
19.000	0.476000E-01	0.142600E+00	0.328960E+01	0.669000E-01	0.516600E+00	-0.350000E-01	0.803300E+00
19.200	0.463000E-01	0.137300E+00	0.328580E+01	0.645000E-01	0.519000E+00	-0.370000E-01	0.803100E+00
19.400	0.451000E-01	0.132200E+00	0.328210E+01	0.622000E-01	0.521100E+00	-0.386000E-01	0.803800E+00
19.600	0.439000E-01	0.127300E+00	0.327860E+01	0.601000E-01	0.523000E+00	-0.398000E-01	0.805500E+00
19.800	0.428000E-01	0.122600E+00	0.327520E+01	0.580000E-01	0.524800E+00	-0.406000E-01	0.808100E+00
20.000	0.417000E-01	0.118000E+00	0.327180E+01	0.561000E-01	0.526300E+00	-0.413000E-01	0.811500E+00
20.200	0.407000E-01	0.113700E+00	0.326860E+01	0.543000E-01	0.527800E+00	-0.417000E-01	0.815800E+00
20.400	0.397000E-01	0.109500E+00	0.326550E+01	0.526000E-01	0.529100E+00	-0.419000E-01	0.820900E+00
20.600	0.388000E-01	0.105500E+00	0.326250E+01	0.510000E-01	0.530200E+00	-0.420000E-01	0.826500E+00
20.800	0.378000E-01	0.101700E+00	0.325960E+01	0.494000E-01	0.531300E+00	-0.420000E-01	0.832700E+00
21.200	0.361000E-01	0.945000E-01	0.325410E+01	0.465000E-01	0.533200E+00	-0.414000E-01	0.845800E+00
21.600	0.345000E-01	0.878000E-01	0.324890E+01	0.439000E-01	0.534800E+00	-0.405000E-01	0.857600E+00
22.000	0.330000E-01	0.817000E-01	0.324400E+01	0.415000E-01	0.536200E+00	-0.391000E-01	0.864200E+00
22.400	0.316000E-01	0.761000E-01	0.323940E+01	0.393000E-01	0.537400E+00	-0.373000E-01	0.860700E+00
22.600	0.309000E-01	0.735000E-01	0.323730E+01	0.383000E-01	0.538000E+00	-0.362000E-01	0.854100E+00
22.800	0.302000E-01	0.710000E-01	0.323510E+01	0.374000E-01	0.538500E+00	-0.350000E-01	0.844300E+00
23.000	0.296000E-01	0.686000E-01	0.323310E+01	0.364000E-01	0.539000E+00	-0.337000E-01	0.831400E+00
23.200	0.290000E-01	0.662000E-01	0.323110E+01	0.355000E-01	0.539500E+00	-0.323000E-01	0.816100E+00
23.800	0.272000E-01	0.598000E-01	0.322540E+01	0.331000E-01	0.540700E+00	-0.271000E-01	0.761800E+00
24.000	0.266000E-01	0.579000E-01	0.322360E+01	0.323000E-01	0.541100E+00	-0.251000E-01	0.743000E+00
24.200	0.261000E-01	0.560000E-01	0.322180E+01	0.316000E-01	0.541400E+00	-0.229000E-01	0.724300E+00
24.400	0.256000E-01	0.542000E-01	0.322020E+01	0.309000E-01	0.541700E+00	-0.206000E-01	0.706100E+00
24.600	0.251000E-01	0.524000E-01	0.321850E+01	0.302000E-01	0.542000E+00	-0.181000E-01	0.688400E+00
24.800	0.246000E-01	0.507000E-01	0.321690E+01	0.295000E-01	0.542300E+00	-0.153000E-01	0.671400E+00
25.000	0.241000E-01	0.491000E-01	0.321530E+01	0.289000E-01	0.542600E+00	-0.125000E-01	0.655000E+00
25.200	0.236000E-01	0.476000E-01	0.321380E+01	0.283000E-01	0.542900E+00	-0.940000E-02	0.639400E+00
25.400	0.231000E-01	0.461000E-01	0.321230E+01	0.277000E-01	0.543100E+00	-0.610000E-02	0.624300E+00
25.600	0.227000E-01	0.447000E-01	0.321090E+01	0.271000E-01	0.543300E+00	-0.260000E-02	0.609900E+00
25.800	0.223000E-01	0.433000E-01	0.320950E+01	0.266000E-01	0.543500E+00	-0.110000E-02	0.596100E+00
26.000	0.218000E-01	0.420000E-01	0.320810E+01	0.260000E-01	0.543700E+00	0.500000E-02	0.582800E+00
26.200	0.214000E-01	0.407000E-01	0.320680E+01	0.255000E-01	0.543900E+00	0.910000E-02	0.570000E+00
26.400	0.210000E-01	0.395000E-01	0.320550E+01	0.250000E-01	0.544100E+00	0.135000E-01	0.557700E+00
26.600	0.206000E-01	0.383000E-01	0.320420E+01	0.245000E-01	0.544300E+00	0.179000E-01	0.545800E+00
26.800	0.203000E-01	0.371000E-01	0.320300E+01	0.241000E-01	0.544400E+00	0.226000E-01	0.534400E+00
27.000	0.199000E-01	0.360000E-01	0.320180E+01	0.236000E-01	0.544600E+00	0.276000E-01	0.523300E+00
27.200	0.195000E-01	0.350000E-01	0.320060E+01	0.232000E-01	0.544700E+00	0.328000E-01	0.512600E+00
27.400	0.192000E-01	0.340000E-01	0.319950E+01	0.228000E-01	0.544800E+00	0.382000E-01	0.502200E+00
27.600	0.188000E-01	0.330000E-01	0.319840E+01	0.223000E-01	0.544900E+00	0.438000E-01	0.492100E+00
27.800	0.185000E-01	0.320000E-01	0.319730E+01	0.219000E-01	0.545000E+00	0.497000E-01	0.482300E+00
28.000	0.182000E-01	0.311000E-01	0.319620E+01	0.215000E-01	0.545100E+00	0.557000E-01	0.472800E+00
28.400	0.175000E-01	0.294000E-01	0.319420E+01	0.208000E-01	0.545200E+00	0.683000E-01	0.454600E+00
29.000	0.166000E-01	0.270000E-01	0.319130E+01	0.197000E-01	0.545300E+00	0.886000E-01	0.429000E+00
29.200	0.164000E-01	0.263000E-01	0.319040E+01	0.194000E-01	0.545400E+00	0.956000E-01	0.420900E+00
29.400	0.161000E-01	0.256000E-01	0.318950E+01	0.191000E-01	0.545400E+00	0.102900E+00	0.413000E+00
29.600	0.158000E-01	0.249000E-01	0.318820E+01	0.187000E-01	0.545400E+00	0.110300E+00	0.405200E+00
29.800	0.155000E-01	0.242000E-01	0.318780E+01	0.184000E-01	0.545400E+00	0.117800E+00	0.397700E+00
30.000	0.153000E-01	0.236000E-01	0.318700E+01	0.181000E-01	0.545400E+00	0.125400E+00	0.390300E+00
30.200	0.150000E-01	0.229000E-01	0.318620E+01	0.178000E-01	0.545400E+00	0.133200E+00	0.383100E+00
30.600	0.146000E-01	0.218000E-01	0.318460E+01	0.173000E-01	0.545400E+00	0.148900E+00	0.369200E+00

Table 2: (2)¹Π -(2-7)¹Π transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.000	0.120150E+01	-0.117200E+00	0.649200E+00	-0.947600E+00	-0.159220E+01	0.453400E+00
3.200	0.132570E+01	-0.592000E-01	0.563400E+00	-0.988000E+00	-0.167600E+01	0.409000E+00
3.400	0.141480E+01	-0.201500E+00	0.548000E+00	-0.925000E+00	-0.178860E+01	0.425000E+00
3.600	0.147370E+01	-0.337400E+00	0.580000E+00	-0.813600E+00	-0.190070E+01	0.475400E+00
3.800	0.149870E+01	-0.484200E+00	0.637200E+00	-0.678400E+00	-0.199770E+01	0.542300E+00
4.000	0.148780E+01	-0.658400E+00	0.698900E+00	-0.532000E+00	-0.207740E+01	0.614600E+00
4.200	0.144110E+01	-0.873600E+00	0.746100E+00	-0.378500E+00	-0.214440E+01	0.688600E+00
4.400	0.135950E+01	-0.113530E+01	0.760400E+00	-0.216300E+00	-0.220220E+01	0.765000E+00
4.600	0.124320E+01	-0.143700E+01	0.726300E+00	0.418000E-01	-0.224930E+01	0.843900E+00
4.800	0.109340E+01	-0.175960E+01	0.637900E+00	0.148000E+00	-0.228020E+01	0.924300E+00
5.000	0.912700E+00	-0.207740E+01	0.504200E+00	0.351800E+00	-0.228910E+01	0.100370E+01
5.200	0.706600E+00	-0.236710E+01	0.348200E+00	0.564700E+00	-0.227360E+01	0.107900E+01
5.400	0.481600E+00	-0.261450E+01	0.197700E+00	0.779000E+00	-0.223670E+01	0.114760E+01
5.600	0.244800E+00	-0.281430E+01	0.773000E-01	0.987600E+00	-0.218600E+01	0.120850E+01
5.800	0.170000E-02	-0.296650E+01	-0.420000E-02	0.118620E+01	-0.213130E+01	0.126230E+01
6.000	-0.243600E+00	-0.307360E+01	-0.123000E-01	0.137320E+01	-0.208110E+01	0.131120E+01
6.200	-0.488600E+00	-0.313730E+01	-0.300000E-01	0.154950E+01	-0.204120E+01	0.135770E+01
6.800	-0.120680E+01	-0.307000E+01	-0.440800E+00	0.203100E+01	-0.200000E+01	0.149690E+01
7.000	-0.143610E+01	-0.296110E+01	-0.627500E+00	0.218080E+01	-0.200820E+01	0.154390E+01
7.400	-0.186660E+01	-0.263140E+01	-0.988500E+00	0.246940E+01	-0.204030E+01	0.163140E+01
7.600	-0.206170E+01	-0.242220E+01	-0.114500E+01	0.260800E+01	-0.206010E+01	0.166980E+01
7.800	-0.223860E+01	-0.219230E+01	-0.128120E+01	0.274190E+01	-0.208000E+01	0.170230E+01
8.000	-0.239300E+01	-0.194840E+01	-0.139810E+01	0.287060E+01	-0.209610E+01	0.172560E+01
8.200	-0.252140E+01	-0.169650E+01	-0.149860E+01	0.299270E+01	-0.210630E+01	0.173710E+01
8.400	-0.262180E+01	-0.144080E+01	-0.158520E+01	0.310630E+01	-0.211400E+01	0.173900E+01
8.600	-0.269170E+01	-0.118710E+01	-0.166170E+01	0.321010E+01	-0.211490E+01	0.172700E+01
8.800	-0.273060E+01	-0.939200E+00	-0.173030E+01	0.330250E+01	-0.211010E+01	0.170210E+01
9.000	-0.273880E+01	-0.701100E+00	-0.179300E+01	0.338180E+01	-0.209980E+01	0.166450E+01
9.200	-0.271750E+01	-0.476000E+00	-0.185040E+01	0.344670E+01	-0.208460E+01	0.161540E+01
9.400	-0.266870E+01	-0.266700E+00	-0.190240E+01	0.349640E+01	-0.206500E+01	0.155660E+01
9.800	-0.249950E+01	0.960000E-01	-0.198610E+01	0.354840E+01	-0.201610E+01	0.141800E+01
10.000	-0.238540E+01	0.246600E+00	-0.201420E+01	0.355110E+01	-0.198830E+01	0.134270E+01
10.200	-0.225650E+01	0.375700E+00	-0.203030E+01	0.353930E+01	-0.195930E+01	0.126620E+01
10.400	-0.211620E+01	0.483200E+00	-0.203260E+01	0.351420E+01	-0.192990E+01	0.119000E+01
10.600	-0.196850E+01	0.569400E+00	-0.201980E+01	0.347710E+01	-0.190050E+01	0.111540E+01
10.800	-0.181700E+01	0.635400E+00	-0.199110E+01	0.342950E+01	-0.187190E+01	0.104300E+01
11.000	-0.166500E+01	0.682400E+00	-0.194620E+01	0.337270E+01	-0.184420E+01	0.973100E+00
11.200	-0.151580E+01	0.712200E+00	-0.188580E+01	0.330810E+01	-0.181810E+01	0.905600E+00
11.400	-0.137180E+01	0.727000E+00	-0.181090E+01	0.323660E+01	-0.179360E+01	0.840100E+00
11.600	-0.123520E+01	0.729100E+00	-0.172330E+01	0.315900E+01	-0.177110E+01	0.775400E+00
11.800	-0.110730E+01	0.720700E+00	-0.162490E+01	0.307570E+01	-0.175050E+01	0.709600E+00
12.000	-0.989300E+00	0.704000E+00	-0.151810E+01	0.298700E+01	-0.173190E+01	0.639700E+00
12.200	-0.881400E+00	0.681000E+00	-0.140550E+01	0.289300E+01	-0.171530E+01	0.559500E+00
12.400	-0.783800E+00	0.653600E+00	-0.128950E+01	0.279360E+01	-0.170030E+01	0.457400E+00
12.600	-0.696200E+00	0.623400E+00	-0.117250E+01	0.268880E+01	-0.168660E+01	0.308800E+00
12.800	-0.618000E+00	0.591400E+00	-0.105680E+01	0.257860E+01	-0.167370E+01	0.595000E-01
13.000	-0.548600E+00	0.558900E+00	-0.944500E+00	0.246320E+01	-0.166080E+01	0.385800E+00
13.200	-0.487200E+00	0.526400E+00	-0.837000E+00	0.234300E+01	-0.164710E+01	0.101550E+01
13.400	-0.433200E+00	0.494700E+00	-0.735700E+00	0.221850E+01	-0.163150E+01	0.154060E+01
13.600	-0.385700E+00	0.464100E+00	-0.641300E+00	0.209070E+01	-0.161280E+01	0.187030E+01
13.800	-0.344000E+00	0.434800E+00	-0.554400E+00	0.196060E+01	-0.159010E+01	0.208660E+01
14.000	-0.307400E+00	0.407100E+00	-0.475000E+00	0.182950E+01	-0.156220E+01	0.224350E+01
14.200	-0.275300E+00	0.381100E+00	-0.403300E+00	0.169880E+01	-0.152810E+01	0.236530E+01
14.400	-0.247200E+00	0.356700E+00	-0.336700E+00	0.156970E+01	-0.148730E+01	0.246410E+01
14.600	-0.222400E+00	0.334100E+00	-0.281000E+00	0.144370E+01	-0.143950E+01	0.254560E+01
14.800	-0.200700E+00	0.313000E+00	-0.229800E+00	0.132200E+01	-0.138460E+01	0.261330E+01
15.000	-0.181600E+00	0.293500E+00	-0.184400E+00	0.120560E+01	-0.132310E+01	0.266930E+01
15.200	-0.164700E+00	0.275500E+00	-0.144300E+00	0.109540E+01	-0.125580E+01	0.271500E+01
15.400	-0.149800E+00	0.258900E+00	-0.109200E+00	0.991900E+00	-0.118380E+01	0.275130E+01
15.600	-0.136600E+00	0.243600E+00	-0.784000E-01	0.895500E+00	-0.110820E+01	0.277900E+01
15.800	-0.124800E+00	0.229500E+00	-0.515000E-01	0.806300E+00	-0.103050E+01	0.279870E+01
16.200	-0.105000E+00	0.204600E+00	-0.780000E-02	0.649300E+00	-0.874100E+00	0.281680E+01
16.400	-0.967000E-01	0.193700E+00	0.970000E-02	0.580900E+00	-0.797800E+00	0.281650E+01
16.600	-0.891000E-01	0.183600E+00	0.247000E-01	0.518900E+00	-0.724100E+00	0.281090E+01
16.800	-0.824000E-01	0.174400E+00	0.376000E-01	0.462800E+00	-0.653700E+00	0.280070E+01
17.000	-0.762000E-01	0.165900E+00	0.485000E-01	0.412100E+00	-0.587100E+00	0.278670E+01
17.200	-0.707000E-01	0.158000E+00	0.577000E-01	0.366500E+00	-0.524700E+00	0.276950E+01
17.400	-0.656000E-01	0.150800E+00	0.655000E-01	0.325400E+00	-0.466700E+00	0.275000E+01
17.600	-0.610000E-01	0.144100E+00	0.719000E-01	0.288600E+00	-0.413100E+00	0.272880E+01
17.800	-0.568000E-01	0.138000E+00	0.771000E-01	0.255600E+00	-0.363800E+00	0.270660E+01
18.000	-0.529000E-01	0.132300E+00	0.813000E-01	0.226100E+00	-0.318700E+00	0.268390E+01
18.200	-0.494000E-01	0.127000E+00	0.846000E-01	0.199600E+00	-0.277700E+00	0.266150E+01
18.400	-0.461000E-01	0.122100E+00	0.872000E-01	0.176100E+00	-0.240400E+00	0.263970E+01
18.600	-0.431000E-01	0.117600E+00	0.890000E-01	0.155000E+00	-0.206600E+00	0.261910E+01
18.800	-0.403000E-01	0.113300E+00	0.903000E-01	0.136200E+00	-0.176000E+00	0.260020E+01
19.000	-0.377000E-01	0.109400E+00	0.910000E-01	0.119500E+00	-0.148500E+00	0.258360E+01

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2
3 19.200 -0.353000E-01 0.105700E+00 0.913000E-01 0.104700E+00 -0.123600E+00 0.256970E+01
4 19.400 -0.331000E-01 0.102200E+00 0.912000E-01 0.915000E-01 -0.101200E+00 0.255920E+01
5 19.600 -0.310000E-01 0.989000E-01 0.908000E-01 0.798000E-01 -0.812000E-01 0.255230E+01
6 19.800 -0.291000E-01 0.959000E-01 0.901000E-01 0.694000E-01 -0.634000E-01 0.254940E+01
7 20.000 -0.272000E-01 0.930000E-01 0.891000E-01 0.602000E-01 -0.473000E-01 0.255150E+01
8 20.200 -0.255000E-01 0.902000E-01 0.880000E-01 0.520000E-01 -0.330000E-01 0.255900E+01
9 20.400 -0.240000E-01 0.876000E-01 0.866000E-01 0.448000E-01 -0.202000E-01 0.257240E+01
10 20.600 -0.225000E-01 0.852000E-01 0.852000E-01 0.385000E-01 -0.870000E-02 0.259230E+01
11 20.800 -0.211000E-01 0.828000E-01 0.836000E-01 0.329000E-01 0.150000E-02 0.261920E+01
12 21.200 -0.186000E-01 0.784000E-01 0.802000E-01 0.237000E-01 0.186000E-01 0.269550E+01
13 21.600 -0.163000E-01 0.744000E-01 0.767000E-01 0.167000E-01 0.321000E-01 0.280180E+01
14 22.000 -0.144000E-01 0.707000E-01 0.730000E-01 0.113000E-01 0.424000E-01 0.293110E+01
15 22.400 -0.126000E-01 0.673000E-01 0.693000E-01 0.730000E-02 0.503000E-01 0.306700E+01
16 22.600 -0.118000E-01 0.657000E-01 0.674000E-01 0.570000E-02 0.534000E-01 0.313040E+01
17 22.800 -0.110000E-01 0.641000E-01 0.656000E-01 0.440000E-02 0.561000E-01 0.318720E+01
18 23.000 -0.103000E-01 0.626000E-01 0.638000E-01 0.320000E-02 0.584000E-01 0.323570E+01
19 23.200 -0.960000E-02 0.612000E-01 0.621000E-01 0.220000E-02 0.603000E-01 0.327540E+01
20 23.800 -0.780000E-02 0.571000E-01 0.570000E-01 0.100000E-03 0.641000E-01 0.334600E+01
21 24.000 -0.730000E-02 0.558000E-01 0.554000E-01 0.300000E-03 0.648000E-01 0.335700E+01
22 24.200 -0.670000E-02 0.545000E-01 0.538000E-01 -0.700000E-03 0.653000E-01 0.336360E+01
23 24.400 -0.630000E-02 0.533000E-01 0.522000E-01 -0.100000E-02 0.655000E-01 0.336710E+01
24 24.600 -0.580000E-02 0.521000E-01 0.507000E-01 -0.120000E-02 0.656000E-01 0.336790E+01
25 24.800 -0.540000E-02 0.510000E-01 0.493000E-01 -0.140000E-02 0.655000E-01 0.336680E+01
26 25.000 -0.490000E-02 0.499000E-01 0.478000E-01 -0.150000E-02 0.652000E-01 0.336420E+01
27 25.200 -0.450000E-02 0.488000E-01 0.464000E-01 -0.150000E-02 0.648000E-01 0.336050E+01
28 25.400 -0.420000E-02 0.478000E-01 0.451000E-01 -0.150000E-02 0.643000E-01 0.335600E+01
29 25.600 -0.380000E-02 0.468000E-01 0.438000E-01 -0.150000E-02 0.636000E-01 0.335080E+01
30 25.800 -0.350000E-02 0.458000E-01 0.425000E-01 -0.150000E-02 0.628000E-01 0.334460E+01
31 26.000 -0.310000E-02 0.448000E-01 0.413000E-01 -0.140000E-02 0.620000E-01 0.333930E+01
32 26.200 -0.280000E-02 0.439000E-01 0.401000E-01 -0.140000E-02 0.610000E-01 0.333330E+01
33 26.400 -0.250000E-02 0.430000E-01 0.390000E-01 -0.130000E-02 0.600000E-01 0.332690E+01
34 26.600 -0.230000E-02 0.421000E-01 0.379000E-01 -0.120000E-02 0.588000E-01 0.332030E+01
35 26.800 -0.200000E-02 0.412000E-01 0.368000E-01 -0.110000E-02 0.577000E-01 0.331370E+01
36 27.000 -0.180000E-02 0.404000E-01 0.357000E-01 -0.100000E-02 0.564000E-01 0.330690E+01
37 27.200 -0.150000E-02 0.395000E-01 0.347000E-01 -0.800000E-03 0.551000E-01 0.330010E+01
38 27.400 -0.130000E-02 0.387000E-01 0.338000E-01 -0.700000E-03 0.538000E-01 0.329330E+01
39 27.600 -0.110000E-02 0.380000E-01 0.328000E-01 -0.600000E-03 0.524000E-01 0.328640E+01
40 27.800 -0.900000E-03 0.372000E-01 0.319000E-01 -0.500000E-03 0.510000E-01 0.327940E+01
41 28.000 -0.700000E-03 0.365000E-01 0.310000E-01 -0.300000E-03 0.495000E-01 0.327250E+01
42 28.400 -0.300000E-03 0.351000E-01 0.293000E-01 0.100000E-03 0.464000E-01 0.325850E+01
43 29.000 0.200000E-03 0.331000E-01 0.270000E-01 0.300000E-03 0.417000E-01 0.323760E+01
44 29.200 0.300000E-03 0.324000E-01 0.263000E-01 0.400000E-03 0.401000E-01 0.323070E+01
45 29.400 0.500000E-03 0.318000E-01 0.256000E-01 0.500000E-03 0.384000E-01 0.322370E+01
46 29.600 0.600000E-03 0.312000E-01 0.249000E-01 0.600000E-03 0.368000E-01 0.321660E+01
47 29.800 0.700000E-03 0.306000E-01 0.242000E-01 0.700000E-03 0.351000E-01 0.320990E+01
48 30.000 0.800000E-03 0.300000E-01 0.236000E-01 0.800000E-03 0.334000E-01 0.320310E+01
49 30.200 0.100000E-02 0.295000E-01 0.229000E-01 0.900000E-03 0.317000E-01 0.319620E+01
50 30.600 0.120000E-02 0.284000E-01 0.218000E-01 0.110000E-02 0.282000E-01 0.318270E+01

Table 3: (3)¹Π -(3-7)¹Π transitions

R	3-3	3-4	3-5	3-6	3-7
3.000	-0.292030E+01	-0.201630E+01	-0.381500E+00	-0.174630E+01	0.111800E+00
3.200	-0.304670E+01	-0.181330E+01	-0.857400E+00	-0.142800E+01	0.240700E+00
3.400	-0.308150E+01	-0.173640E+01	-0.117460E+01	-0.119300E+01	0.315900E+00
3.600	-0.308540E+01	-0.171970E+01	-0.145350E+01	-0.980900E+00	0.326500E+00
3.800	-0.307990E+01	-0.173760E+01	-0.173770E+01	-0.777800E+00	0.278600E+00
4.000	-0.307960E+01	-0.177490E+01	-0.204780E+01	-0.589400E+00	0.185500E+00
4.200	-0.309170E+01	-0.181770E+01	-0.239390E+01	-0.421900E+00	-0.570000E-01
4.400	-0.311180E+01	-0.185050E+01	-0.277770E+01	-0.272100E+00	-0.102400E+00
4.600	-0.311900E+01	-0.186080E+01	-0.319040E+01	-0.131000E+00	-0.287200E+00
4.800	-0.308080E+01	-0.184480E+01	-0.361360E+01	0.164000E-01	-0.483100E+00
5.000	-0.296520E+01	-0.181130E+01	-0.402390E+01	0.184600E+00	-0.667800E+00
5.200	-0.275680E+01	-0.177390E+01	-0.439990E+01	0.383100E+00	-0.819600E+00
5.400	-0.246030E+01	-0.174150E+01	-0.472540E+01	0.614500E+00	-0.924500E+00
5.600	-0.209390E+01	-0.171350E+01	-0.498880E+01	0.875800E+00	-0.977200E+00
5.800	-0.167930E+01	-0.168260E+01	-0.518100E+01	0.116090E+01	-0.978900E+00
6.000	-0.123680E+01	-0.163780E+01	-0.529500E+01	0.146100E+01	-0.933600E+00
6.200	-0.784400E+00	-0.156730E+01	-0.532570E+01	0.176530E+01	-0.846800E+00
6.800	0.459900E+00	-0.112080E+01	-0.491870E+01	0.257090E+01	-0.413200E+00
7.000	0.782000E+00	-0.899000E+00	-0.464460E+01	0.276400E+01	-0.244800E+00
7.400	0.123610E+01	-0.423500E+00	-0.399410E+01	0.300560E+01	-0.641000E-01
7.600	0.137420E+01	-0.198600E+00	-0.365660E+01	0.306430E+01	0.188200E+00
7.800	0.146380E+01	-0.540000E-02	-0.333020E+01	0.309320E+01	0.287700E+00
8.000	0.151630E+01	0.185100E+00	-0.302220E+01	0.309670E+01	0.363500E+00
8.200	0.154060E+01	0.341200E+00	-0.273640E+01	0.307950E+01	0.417400E+00
8.400	0.153940E+01	0.476100E+00	-0.247550E+01	0.305700E+01	0.448900E+00
8.600	0.152080E+01	0.593600E+00	-0.223730E+01	0.302430E+01	0.462100E+00
8.800	0.148680E+01	0.697600E+00	-0.202070E+01	0.298780E+01	0.458700E+00
9.000	0.143970E+01	0.791700E+00	-0.182360E+01	0.294960E+01	0.440600E+00
9.200	0.138110E+01	0.879400E+00	-0.164380E+01	0.291130E+01	0.410000E+00
9.400	0.131240E+01	0.963500E+00	-0.147900E+01	0.287420E+01	0.368900E+00
9.800	0.115060E+01	0.112870E+01	-0.118790E+01	0.280530E+01	0.262700E+00
10.000	0.106040E+01	0.121200E+01	-0.105860E+01	0.277410E+01	0.201200E+00
10.200	0.966500E+00	0.129620E+01	-0.938800E+00	0.274500E+01	0.136100E+00
10.400	0.870600E+00	0.138080E+01	-0.827600E+00	0.271780E+01	0.687000E-01
10.800	0.681000E+00	0.154680E+01	-0.628600E+00	0.266780E+01	-0.694000E-01
11.000	0.590900E+00	0.162570E+01	-0.539800E+00	0.264440E+01	-0.139000E+00
11.200	0.505900E+00	0.170010E+01	-0.457500E+00	0.262190E+01	-0.209100E+00
11.400	0.427100E+00	0.176900E+01	-0.381100E+00	0.260010E+01	-0.279900E+00
11.600	0.355200E+00	0.183140E+01	-0.310200E+00	0.257880E+01	-0.352700E+00
11.800	0.290400E+00	0.188680E+01	-0.244300E+00	0.255810E+01	-0.429500E+00
12.000	0.232900E+00	0.193520E+01	-0.183100E+00	0.253810E+01	-0.513500E+00
12.200	0.182200E+00	0.197640E+01	-0.126300E+00	0.251910E+01	-0.610800E+00
12.400	0.138000E+00	0.201090E+01	-0.739000E-01	0.250150E+01	-0.732600E+00
12.600	0.995000E-01	0.203920E+01	-0.260000E-01	0.248550E+01	-0.899000E+00
12.800	0.663000E-01	0.206200E+01	0.175000E-01	0.247170E+01	-0.114830E+01
13.000	0.377000E-01	0.207990E+01	0.562000E-01	0.246050E+01	-0.152200E+01
13.200	0.130000E-01	0.209370E+01	0.900000E-01	0.245210E+01	-0.192400E+01
13.400	-0.820000E-02	0.210420E+01	0.119000E+00	0.244710E+01	-0.214340E+01
13.600	-0.265000E-01	0.211190E+01	0.143100E+00	0.244570E+01	-0.221690E+01
13.800	-0.422000E-01	0.211760E+01	0.162500E+00	0.244790E+01	-0.223270E+01
14.000	-0.558000E-01	0.212160E+01	0.177700E+00	0.245380E+01	-0.222430E+01
14.200	-0.674000E-01	0.212450E+01	0.189100E+00	0.246320E+01	-0.220240E+01
14.400	-0.773000E-01	0.212650E+01	0.197200E+00	0.247600E+01	-0.217190E+01
14.600	-0.859000E-01	0.212800E+01	0.202700E+00	0.249170E+01	-0.213430E+01
14.800	-0.931000E-01	0.212890E+01	0.206000E+00	0.250960E+01	-0.209040E+01
15.000	-0.993000E-01	0.212960E+01	0.208000E+00	0.252920E+01	-0.204160E+01
15.200	-0.104400E+00	0.213010E+01	0.209000E+00	0.254970E+01	-0.198830E+01
15.400	-0.108700E+00	0.213040E+01	0.209300E+00	0.257020E+01	-0.193140E+01
15.600	-0.112100E+00	0.213060E+01	0.209400E+00	0.259010E+01	-0.187170E+01
15.800	-0.114800E+00	0.213060E+01	0.209400E+00	0.260860E+01	-0.181120E+01
16.200	-0.118300E+00	0.213020E+01	0.209400E+00	0.263900E+01	-0.168320E+01
16.400	-0.119200E+00	0.212980E+01	0.209500E+00	0.265000E+01	-0.161990E+01
16.600	-0.119600E+00	0.212910E+01	0.209600E+00	0.265820E+01	-0.155860E+01
16.800	-0.119500E+00	0.212830E+01	0.209700E+00	0.266280E+01	-0.149800E+01
17.000	-0.119100E+00	0.212720E+01	0.209600E+00	0.266400E+01	-0.143900E+01
17.200	-0.118300E+00	0.212600E+01	0.209400E+00	0.266180E+01	-0.138230E+01
17.400	-0.117200E+00	0.212450E+01	0.209000E+00	0.265640E+01	-0.132800E+01
17.600	-0.115800E+00	0.212280E+01	0.208300E+00	0.264790E+01	-0.127610E+01
17.800	-0.114100E+00	0.212090E+01	0.207300E+00	0.263650E+01	-0.122690E+01
18.000	-0.112200E+00	0.211870E+01	0.206000E+00	0.262240E+01	-0.118030E+01
18.200	-0.110200E+00	0.211640E+01	0.204400E+00	0.260590E+01	-0.113620E+01
18.400	-0.108000E+00	0.211390E+01	0.202400E+00	0.258720E+01	-0.109450E+01
18.600	-0.105700E+00	0.211130E+01	0.200000E+00	0.256640E+01	-0.105500E+01
18.800	-0.103300E+00	0.210840E+01	0.197400E+00	0.254360E+01	-0.101720E+01
19.000	-0.100800E+00	0.210550E+01	0.194400E+00	0.251930E+01	-0.981500E+00
19.200	-0.983000E-01	0.210240E+01	0.191200E+00	0.249290E+01	-0.946500E+00

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3 19.400 -0.957000E-01 0.209920E+01 0.187800E+00 0.246530E+01 -0.913000E+00
4 19.600 -0.932000E-01 0.209600E+01 0.184000E+00 0.243710E+01 -0.881600E+00
5 19.800 -0.906000E-01 0.209260E+01 0.179700E+00 0.240840E+01 -0.852000E+00
6 20.000 -0.881000E-01 0.208920E+01 0.175400E+00 0.237830E+01 -0.822200E+00
7 20.200 -0.856000E-01 0.208580E+01 0.171000E+00 0.234750E+01 -0.792800E+00
8 20.400 -0.832000E-01 0.208240E+01 0.166400E+00 0.231590E+01 -0.763500E+00
9 20.600 -0.808000E-01 0.207900E+01 0.161700E+00 0.228380E+01 -0.733900E+00
10 20.800 -0.785000E-01 0.207550E+01 0.156900E+00 0.225120E+01 -0.703900E+00
11 21.200 -0.742000E-01 0.206880E+01 0.147100E+00 0.218500E+01 -0.640700E+00
12 21.600 -0.701000E-01 0.206220E+01 0.137400E+00 0.211710E+01 -0.570800E+00
13 22.000 -0.664000E-01 0.205590E+01 0.127600E+00 0.204930E+01 -0.493100E+00
14 22.400 -0.630000E-01 0.204990E+01 0.118000E+00 0.198130E+01 -0.408400E+00
15 22.600 -0.615000E-01 0.204700E+01 0.113300E+00 0.194730E+01 -0.365100E+00
16 22.800 -0.600000E-01 0.204420E+01 0.108800E+00 0.191340E+01 -0.322500E+00
17 23.000 -0.586000E-01 0.204150E+01 0.104300E+00 0.187960E+01 -0.281600E+00
18 23.200 -0.573000E-01 0.203890E+01 0.999000E-01 0.184590E+01 -0.243300E+00
19 23.800 -0.538000E-01 0.203170E+01 0.874000E-01 0.174590E+01 -0.149000E+00
20 24.000 -0.527000E-01 0.202960E+01 0.837000E-01 0.171260E+01 -0.124700E+00
21 24.200 -0.518000E-01 0.202740E+01 0.799000E-01 0.168000E+01 -0.103800E+00
22 24.400 -0.508000E-01 0.202540E+01 0.762000E-01 0.164750E+01 -0.857000E-01
23 24.600 -0.500000E-01 0.202350E+01 0.728000E-01 0.161520E+01 -0.701000E-01
24 24.800 -0.492000E-01 0.202170E+01 0.694000E-01 0.158310E+01 -0.568000E-01
25 25.000 -0.484000E-01 0.202000E+01 0.663000E-01 0.155120E+01 -0.455000E-01
26 25.200 -0.477000E-01 0.201830E+01 0.632000E-01 0.151960E+01 -0.358000E-01
27 25.400 -0.470000E-01 0.201680E+01 0.603000E-01 0.148820E+01 -0.276000E-01
28 25.600 -0.464000E-01 0.201530E+01 0.576000E-01 0.145710E+01 -0.207000E-01
29 25.800 -0.457000E-01 0.201390E+01 0.550000E-01 0.142620E+01 -0.148000E-01
30 26.000 -0.452000E-01 0.201260E+01 0.525000E-01 0.139560E+01 -0.980000E-02
31 26.200 -0.446000E-01 0.201130E+01 0.501000E-01 0.136520E+01 -0.550000E-02
32 26.400 -0.441000E-01 0.201020E+01 0.479000E-01 0.133520E+01 -0.200000E-02
33 26.600 -0.436000E-01 0.200900E+01 0.457000E-01 0.130570E+01 0.100000E-02
34 26.800 -0.431000E-01 0.200800E+01 0.438000E-01 0.127620E+01 0.350000E-02
35 27.000 -0.426000E-01 0.200700E+01 0.419000E-01 0.124680E+01 0.560000E-02
36 27.200 -0.422000E-01 0.200600E+01 0.402000E-01 0.121780E+01 0.740000E-02
37 27.400 -0.418000E-01 0.200520E+01 0.386000E-01 0.118900E+01 0.890000E-02
38 27.600 -0.414000E-01 0.200430E+01 0.371000E-01 0.116050E+01 0.101000E-01
39 27.800 -0.410000E-01 0.200350E+01 0.357000E-01 0.113240E+01 0.111000E-01
40 28.000 -0.406000E-01 0.200280E+01 0.344000E-01 0.110450E+01 0.119000E-01
41 28.400 -0.398000E-01 0.200140E+01 0.321000E-01 0.104960E+01 0.130000E-01
42 29.000 -0.387000E-01 0.199960E+01 0.293000E-01 0.969700E+00 0.138000E-01
43 29.200 -0.384000E-01 0.199910E+01 0.285000E-01 0.943700E+00 0.139000E-01
44 29.400 -0.381000E-01 0.199850E+01 0.278000E-01 0.918100E+00 0.139000E-01
45 29.600 -0.377000E-01 0.199780E+01 0.271000E-01 0.892800E+00 0.139000E-01
46 29.800 -0.374000E-01 0.199760E+01 0.265000E-01 0.868000E+00 0.138000E-01
47 30.000 -0.371000E-01 0.199710E+01 0.260000E-01 0.843500E+00 0.137000E-01
48 30.200 -0.367000E-01 0.199670E+01 0.255000E-01 0.819400E+00 0.135000E-01
49 30.600 -0.361000E-01 0.199590E+01 0.247000E-01 0.772100E+00 0.131000E-01
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Table 4: $(1)^3\Pi - (1-7)^3\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	-0.141990E+01	0.144460E+01	0.207170E+01	-0.639200E+00	0.146850E+01	0.854300E+00	0.553000E-01
3.200	-0.154720E+01	0.136790E+01	0.211580E+01	-0.766300E+00	0.132170E+01	0.847200E+00	0.330400E+00
3.400	-0.162340E+01	0.133310E+01	0.214670E+01	-0.840000E+00	0.121590E+01	0.823000E+00	0.493600E+00
3.600	-0.167070E+01	0.132650E+01	0.216770E+01	-0.881600E+00	0.114080E+01	0.806300E+00	0.511000E+00
3.800	-0.170000E+01	0.133820E+01	0.218140E+01	-0.901300E+00	0.108780E+01	0.793300E+00	0.513500E+00
4.000	-0.171700E+01	0.136220E+01	0.219110E+01	-0.901100E+00	0.105110E+01	0.782800E+00	0.515700E+00
4.200	-0.172510E+01	0.139550E+01	0.220270E+01	-0.872800E+00	0.102770E+01	0.774900E+00	0.518800E+00
4.400	-0.172680E+01	0.143690E+01	0.223140E+01	-0.774400E+00	0.101730E+01	0.769700E+00	0.522700E+00
4.600	-0.172420E+01	0.148620E+01	0.233200E+01	-0.269600E+00	0.102160E+01	0.767300E+00	0.527400E+00
4.800	-0.171910E+01	0.154280E+01	0.164400E+01	-0.164440E+01	0.104420E+01	0.767500E+00	0.533100E+00
5.000	-0.171290E+01	0.160630E+01	0.132470E+01	-0.187130E+01	0.109070E+01	0.771000E+00	0.539900E+00
5.200	-0.170690E+01	0.167570E+01	0.123800E+01	-0.187290E+01	0.116810E+01	0.778300E+00	0.548200E+00
5.400	-0.170190E+01	0.174970E+01	0.119790E+01	-0.181420E+01	0.128320E+01	0.791000E+00	0.558300E+00
5.600	-0.169830E+01	0.182720E+01	0.117290E+01	-0.170580E+01	0.143670E+01	0.811000E+00	0.570400E+00
5.800	-0.169670E+01	0.190690E+01	0.115310E+01	-0.155030E+01	0.161210E+01	0.840400E+00	0.584700E+00
6.000	-0.169690E+01	0.198770E+01	0.113460E+01	-0.137310E+01	0.177400E+01	0.878900E+00	0.600700E+00
6.200	-0.169910E+01	0.206880E+01	0.111510E+01	-0.122290E+01	0.189390E+01	0.919600E+00	0.617800E+00
6.800	-0.171480E+01	0.230610E+01	0.103480E+01	-0.120320E+01	0.205550E+01	0.910600E+00	0.668200E+00
7.000	-0.172200E+01	0.238120E+01	0.994000E+00	-0.132990E+01	0.206840E+01	0.854600E+00	0.682800E+00
7.400	-0.173710E+01	0.252210E+01	0.865200E+00	-0.167730E+01	0.203760E+01	0.724500E+00	0.707700E+00
7.600	-0.174390E+01	0.258720E+01	0.755900E+00	-0.186610E+01	0.200620E+01	0.663000E+00	0.718000E+00
7.800	-0.174950E+01	0.264820E+01	0.585800E+00	-0.205390E+01	0.197360E+01	0.606000E+00	0.727000E+00
8.000	-0.175320E+01	0.270470E+01	0.306200E+00	-0.223080E+01	0.194380E+01	0.553000E+00	0.734600E+00
8.200	-0.175430E+01	0.275640E+01	0.150700E+00	-0.235600E+01	0.191840E+01	0.503000E+00	0.740600E+00
8.400	-0.175200E+01	0.280320E+01	0.762900E+00	-0.234280E+01	0.189710E+01	0.455000E+00	0.745000E+00
8.600	-0.174560E+01	0.284460E+01	0.131870E+01	-0.219660E+01	0.187870E+01	0.407900E+00	0.747300E+00
8.800	-0.173410E+01	0.288040E+01	0.170440E+01	-0.203700E+01	0.186190E+01	0.361100E+00	0.747100E+00
9.000	-0.171670E+01	0.291030E+01	0.196750E+01	-0.191550E+01	0.184500E+01	0.313900E+00	0.744100E+00
9.200	-0.169500E+01	0.293420E+01	0.216250E+01	-0.182830E+01	0.182670E+01	0.266000E+00	0.736400E+00
9.400	-0.166070E+01	0.295150E+01	0.231900E+01	-0.176280E+01	0.180590E+01	0.217200E+00	0.717600E+00
9.800	-0.157150E+01	0.296520E+01	0.256830E+01	-0.165690E+01	0.175550E+01	0.118200E+00	0.970300E+00
10.000	-0.151330E+01	0.296040E+01	0.267270E+01	-0.160190E+01	0.172670E+01	0.694000E-01	0.107730E+01
10.200	-0.144590E+01	0.294700E+01	0.276710E+01	-0.153780E+01	0.169650E+01	0.230000E-01	0.116840E+01
10.400	-0.136990E+01	0.292420E+01	0.285260E+01	-0.146070E+01	0.166600E+01	0.182000E-01	0.125920E+01
10.600	-0.128600E+01	0.289120E+01	0.293010E+01	-0.136820E+01	0.163520E+01	0.503000E-01	0.135040E+01
10.800	-0.119580E+01	0.284750E+01	0.299990E+01	-0.126010E+01	0.160330E+01	0.662000E-01	0.144080E+01
11.000	-0.110070E+01	0.279240E+01	0.306250E+01	-0.113800E+01	0.156840E+01	0.529000E-01	0.152870E+01
11.200	-0.100300E+01	0.272590E+01	0.311830E+01	-0.100530E+01	0.152850E+01	-0.154000E-01	0.161060E+01
11.400	-0.904800E+00	0.264800E+01	0.316780E+01	-0.866700E+00	0.148120E+01	-0.191200E+00	0.167270E+01
11.600	-0.808100E+00	0.255910E+01	0.321170E+01	-0.727000E+00	0.142520E+01	-0.536700E+00	0.166270E+01
11.800	-0.714800E+00	0.246010E+01	0.325060E+01	-0.590600E+00	0.136010E+01	-0.945600E+00	0.153250E+01
12.000	-0.626500E+00	0.235210E+01	0.328510E+01	-0.461300E+00	0.128640E+01	-0.120540E+01	0.139550E+01
12.200	-0.544400E+00	0.223660E+01	0.331580E+01	-0.342000E+00	0.120580E+01	-0.132650E+01	0.132790E+01
12.400	-0.469200E+00	0.211500E+01	0.334320E+01	-0.234500E+00	0.112060E+01	-0.137040E+01	0.131560E+01
12.600	-0.401100E+00	0.198910E+01	0.336740E+01	-0.139800E+00	0.103360E+01	-0.136580E+01	0.133910E+01
12.800	-0.340300E+00	0.186060E+01	0.338860E+01	-0.583000E-01	0.947400E+00	-0.132300E+01	0.138700E+01
13.000	-0.286400E+00	0.173150E+01	0.340690E+01	0.103000E-01	0.864600E+00	-0.124450E+01	0.145210E+01
13.200	-0.239100E+00	0.160360E+01	0.342210E+01	0.666000E-01	0.787000E+00	-0.113130E+01	0.152770E+01
13.400	-0.197800E+00	0.147860E+01	0.343420E+01	0.111400E+00	0.715900E+00	-0.986300E+00	0.160460E+01
13.600	-0.162000E+00	0.135820E+01	0.344320E+01	0.145700E+00	0.651900E+00	-0.818800E+00	0.167170E+01
13.800	-0.131000E+00	0.124350E+01	0.344920E+01	0.170700E+00	0.595300E+00	-0.644000E+00	0.171920E+01
14.000	-0.104400E+00	0.113570E+01	0.345240E+01	0.187400E+00	0.545700E+00	-0.478400E+00	0.174340E+01
14.200	-0.815000E-01	0.103540E+01	0.345310E+01	0.196900E+00	0.502700E+00	-0.333000E+00	0.174680E+01
14.400	-0.618000E-01	0.942900E+00	0.345170E+01	0.200500E+00	0.465600E+00	-0.211600E+00	0.173520E+01
14.600	-0.451000E-01	0.858300E+00	0.344840E+01	0.199100E+00	0.433800E+00	-0.112800E+00	0.171400E+01
14.800	-0.308000E-01	0.781400E+00	0.344370E+01	0.193600E+00	0.406600E+00	-0.333000E-01	0.168720E+01
15.000	-0.186000E-01	0.711900E+00	0.343780E+01	0.185000E+00	0.383500E+00	0.307000E-01	0.165780E+01
15.200	-0.820000E-02	0.649300E+00	0.343110E+01	0.174100E+00	0.363800E+00	0.825000E-01	0.162740E+01
15.400	0.500000E-03	0.593100E+00	0.342370E+01	0.161600E+00	0.347100E+00	0.124700E+00	0.159710E+01
15.600	0.800000E-02	0.542700E+00	0.341590E+01	0.148000E+00	0.333100E+00	0.159600E+00	0.156730E+01
15.800	0.142000E-01	0.497600E+00	0.340790E+01	0.133900E+00	0.321300E+00	0.188600E+00	0.153840E+01
16.200	0.239000E-01	0.421000E+00	0.339160E+01	0.105800E+00	0.303500E+00	0.233600E+00	0.148400E+01
16.400	0.275000E-01	0.388500E+00	0.338350E+01	0.924000E-01	0.296900E+00	0.251300E+00	0.145810E+01
16.600	0.306000E-01	0.359400E+00	0.337560E+01	0.798000E-01	0.291800E+00	0.266600E+00	0.143280E+01
16.800	0.330000E-01	0.333200E+00	0.336780E+01	0.682000E-01	0.287800E+00	0.280000E+00	0.140830E+01
17.000	0.350000E-01	0.309600E+00	0.336030E+01	0.575000E-01	0.285000E+00	0.291600E+00	0.138460E+01
17.200	0.367000E-01	0.288400E+00	0.335300E+01	0.480000E-01	0.283100E+00	0.301900E+00	0.136120E+01
17.400	0.379000E-01	0.269200E+00	0.334590E+01	0.397000E-01	0.282200E+00	0.311000E+00	0.133800E+01
17.600	0.389000E-01	0.251800E+00	0.333910E+01	0.325000E-01	0.282100E+00	0.319100E+00	0.131500E+01
17.800	0.396000E-01	0.236000E+00	0.333260E+01	0.265000E-01	0.282800E+00	0.326300E+00	0.129180E+01
18.000	0.401000E-01	0.221600E+00	0.332640E+01	0.216000E-01	0.284100E+00	0.332700E+00	0.126850E+01
18.200	0.403000E-01	0.208500E+00	0.332040E+01	0.177000E-01	0.286100E+00	0.338400E+00	0.124500E+01
18.400	0.405000E-01	0.196500E+00	0.331470E+01	0.148000E-01	0.288600E+00	0.343400E+00	0.122120E+01
18.600	0.405000E-01	0.185500E+00	0.330920E+01	0.128000E-01	0.291700E+00	0.347800E+00	0.119730E+01
18.800	0.404000E-01	0.175400E+00	0.330400E+01	0.116000E-01	0.295100E+00	0.351700E+00	0.117340E+01
19.000	0.402000E-01	0.166200E+00	0.329900E+01	0.110000E-01	0.299000E+00	0.355000E+00	0.114950E+01

19.200	0.399000E-01	0.157600E+00	0.329430E+01	0.109000E-01	0.303300E+00	0.357900E+00	0.112600E+01
19.400	0.395000E-01	0.149700E+00	0.328970E+01	0.113000E-01	0.307900E+00	0.360200E+00	0.110330E+01
19.600	0.391000E-01	0.142400E+00	0.328540E+01	0.120000E-01	0.312800E+00	0.361900E+00	0.108100E+01
19.800	0.386000E-01	0.135500E+00	0.328120E+01	0.128000E-01	0.318000E+00	0.363200E+00	0.105920E+01
20.000	0.381000E-01	0.129200E+00	0.327730E+01	0.139000E-01	0.323400E+00	0.364000E+00	0.103890E+01
20.200	0.376000E-01	0.123300E+00	0.327350E+01	0.150000E-01	0.329100E+00	0.364300E+00	0.102000E+01
20.400	0.370000E-01	0.117800E+00	0.326980E+01	0.161000E-01	0.335100E+00	0.364100E+00	0.100240E+01
20.600	0.364000E-01	0.112600E+00	0.326640E+01	0.172000E-01	0.341300E+00	0.363400E+00	0.986400E+00
20.800	0.358000E-01	0.107800E+00	0.326300E+01	0.182000E-01	0.347700E+00	0.362200E+00	0.971900E+00
21.200	0.346000E-01	0.990000E-01	0.325680E+01	0.202000E-01	0.361100E+00	0.358200E+00	0.947000E+00
21.600	0.334000E-01	0.912000E-01	0.325100E+01	0.218000E-01	0.375100E+00	0.352200E+00	0.926400E+00
22.000	0.321000E-01	0.842000E-01	0.324570E+01	0.230000E-01	0.389600E+00	0.344300E+00	0.907200E+00
22.400	0.309000E-01	0.779000E-01	0.324070E+01	0.239000E-01	0.404400E+00	0.334600E+00	0.887000E+00
22.600	0.303000E-01	0.751000E-01	0.323840E+01	0.242000E-01	0.411700E+00	0.329100E+00	0.875900E+00
22.800	0.297000E-01	0.723000E-01	0.323610E+01	0.245000E-01	0.419000E+00	0.323300E+00	0.863800E+00
23.000	0.292000E-01	0.697000E-01	0.323390E+01	0.247000E-01	0.426300E+00	0.317100E+00	0.850600E+00
23.200	0.286000E-01	0.672000E-01	0.323180E+01	0.248000E-01	0.433400E+00	0.310700E+00	0.836400E+00
23.800	0.270000E-01	0.605000E-01	0.322590E+01	0.249000E-01	0.453500E+00	0.290200E+00	0.787900E+00
24.000	0.264000E-01	0.584000E-01	0.322410E+01	0.249000E-01	0.459700E+00	0.283200E+00	0.770400E+00
24.200	0.259000E-01	0.564000E-01	0.322230E+01	0.248000E-01	0.465700E+00	0.276200E+00	0.752500E+00
24.400	0.254000E-01	0.545000E-01	0.322050E+01	0.247000E-01	0.471400E+00	0.269200E+00	0.734100E+00
24.600	0.249000E-01	0.528000E-01	0.321880E+01	0.246000E-01	0.476700E+00	0.262300E+00	0.715800E+00
24.800	0.245000E-01	0.510000E-01	0.321720E+01	0.245000E-01	0.481800E+00	0.255500E+00	0.697600E+00
25.000	0.240000E-01	0.494000E-01	0.321560E+01	0.243000E-01	0.486600E+00	0.248800E+00	0.679800E+00
25.200	0.235000E-01	0.478000E-01	0.321400E+01	0.241000E-01	0.491100E+00	0.242300E+00	0.662400E+00
25.400	0.231000E-01	0.463000E-01	0.321250E+01	0.239000E-01	0.495300E+00	0.236100E+00	0.645500E+00
25.600	0.226000E-01	0.448000E-01	0.321110E+01	0.237000E-01	0.499200E+00	0.230000E+00	0.629100E+00
25.800	0.222000E-01	0.434000E-01	0.320960E+01	0.234000E-01	0.502800E+00	0.224300E+00	0.613400E+00
26.000	0.218000E-01	0.421000E-01	0.320830E+01	0.232000E-01	0.506200E+00	0.218800E+00	0.598200E+00
26.200	0.214000E-01	0.408000E-01	0.320690E+01	0.229000E-01	0.509300E+00	0.213500E+00	0.583700E+00
26.400	0.210000E-01	0.395000E-01	0.320560E+01	0.227000E-01	0.512200E+00	0.208600E+00	0.569800E+00
26.600	0.206000E-01	0.384000E-01	0.320430E+01	0.224000E-01	0.514900E+00	0.203800E+00	0.556400E+00
26.800	0.202000E-01	0.372000E-01	0.320310E+01	0.221000E-01	0.517400E+00	0.199400E+00	0.543500E+00
27.000	0.199000E-01	0.361000E-01	0.320190E+01	0.219000E-01	0.519700E+00	0.195300E+00	0.531200E+00
27.200	0.195000E-01	0.350000E-01	0.320070E+01	0.216000E-01	0.521800E+00	0.191400E+00	0.519400E+00
27.400	0.191000E-01	0.340000E-01	0.319950E+01	0.213000E-01	0.523700E+00	0.187800E+00	0.508000E+00
27.600	0.188000E-01	0.330000E-01	0.319840E+01	0.210000E-01	0.525500E+00	0.184500E+00	0.497000E+00
27.800	0.185000E-01	0.321000E-01	0.319730E+01	0.207000E-01	0.527100E+00	0.181400E+00	0.486400E+00
28.000	0.181000E-01	0.312000E-01	0.319630E+01	0.205000E-01	0.528600E+00	0.178600E+00	0.476200E+00
28.400	0.175000E-01	0.294000E-01	0.319420E+01	0.199000E-01	0.531200E+00	0.173700E+00	0.456900E+00
29.000	0.166000E-01	0.270000E-01	0.319130E+01	0.191000E-01	0.534400E+00	0.168000E+00	0.430100E+00
29.200	0.163000E-01	0.263000E-01	0.319040E+01	0.188000E-01	0.535300E+00	0.166600E+00	0.421700E+00
29.400	0.161000E-01	0.256000E-01	0.318950E+01	0.185000E-01	0.536100E+00	0.165300E+00	0.413500E+00
29.600	0.158000E-01	0.249000E-01	0.318820E+01	0.183000E-01	0.536900E+00	0.164300E+00	0.405600E+00
29.800	0.155000E-01	0.242000E-01	0.318780E+01	0.180000E-01	0.537600E+00	0.163400E+00	0.397900E+00
30.000	0.153000E-01	0.236000E-01	0.318700E+01	0.177000E-01	0.538200E+00	0.162700E+00	0.390400E+00
30.200	0.150000E-01	0.229000E-01	0.318620E+01	0.175000E-01	0.538700E+00	0.162100E+00	0.383100E+00
30.600	0.146000E-01	0.218000E-01	0.318460E+01	0.170000E-01	0.539700E+00	0.161600E+00	0.369000E+00

Table 5: (2)³Π -(2-7)³Π transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.000	0.126470E+01	0.770400E+00	0.273100E+00	-0.110360E+01	0.208000E+00	-0.247690E+01
3.200	0.139860E+01	0.704700E+00	0.120900E+00	-0.112010E+01	0.641600E+00	-0.230590E+01
3.400	0.151840E+01	0.657800E+00	0.273000E-01	-0.110590E+01	0.106010E+01	-0.276000E-01
3.600	0.164020E+01	0.624900E+00	0.182000E-01	-0.106990E+01	0.131520E+01	0.132900E+00
3.800	0.177130E+01	0.601000E+00	0.253000E-01	-0.101780E+01	0.151360E+01	0.150600E+00
4.000	0.191300E+01	0.582300E+00	0.190000E-02	-0.952400E+00	0.169030E+01	0.151600E+00
4.200	0.206240E+01	0.566700E+00	0.446000E-01	-0.874000E+00	0.185860E+01	0.144600E+00
4.400	0.221400E+01	0.556900E+00	-0.100300E+00	-0.781300E+00	0.202370E+01	0.133200E+00
4.600	0.236150E+01	0.576600E+00	-0.801000E-01	-0.672000E+00	0.218610E+01	0.119300E+00
4.800	0.249820E+01	0.526100E+00	-0.335900E+00	-0.543600E+00	0.234420E+01	0.104500E+00
5.000	0.261880E+01	0.592400E+00	-0.361500E+00	-0.394400E+00	0.249450E+01	0.899000E-01
5.200	0.271920E+01	0.725200E+00	-0.311500E+00	-0.224300E+00	0.263240E+01	0.761000E-01
5.400	0.279710E+01	0.879200E+00	-0.221700E+00	-0.378000E-01	0.275280E+01	0.633000E-01
5.600	0.285160E+01	0.104380E+01	-0.832000E-01	0.152600E+00	0.285030E+01	0.510000E-01
5.800	0.288310E+01	0.121350E+01	-0.113400E+00	0.324500E+00	0.291950E+01	0.393000E-01
6.000	0.289270E+01	0.138490E+01	-0.359300E+00	0.458300E+00	0.295650E+01	0.276000E-01
6.200	0.288180E+01	0.155540E+01	-0.621200E+00	0.562600E+00	0.295900E+01	0.157000E-01
6.800	0.274450E+01	0.204670E+01	-0.114460E+01	0.105960E+01	0.277870E+01	0.197000E-01
7.000	0.266930E+01	0.220220E+01	-0.116470E+01	0.130960E+01	0.267310E+01	0.303000E-01
7.400	0.248260E+01	0.250360E+01	-0.966800E+00	0.177790E+01	0.243990E+01	0.461000E-01
7.600	0.237270E+01	0.265000E+01	-0.758800E+00	0.195710E+01	0.232680E+01	0.504000E-01
7.800	0.225260E+01	0.278920E+01	-0.462400E+00	0.209280E+01	0.222080E+01	0.515000E-01
8.000	0.212300E+01	0.290060E+01	-0.290000E-01	0.218800E+01	0.212200E+01	0.487000E-01
8.200	0.198400E+01	0.291600E+01	0.608800E+00	0.224780E+01	0.202970E+01	0.413000E-01
8.400	0.183580E+01	0.272490E+01	0.139620E+01	0.227800E+01	0.194610E+01	0.301000E-01
8.600	0.167880E+01	0.237450E+01	0.207020E+01	0.228270E+01	0.186750E+01	0.148000E-01
8.800	0.151340E+01	0.203800E+01	0.252430E+01	0.226580E+01	0.179370E+01	-0.350000E-02
9.400	0.972000E+00	0.137570E+01	0.328890E+01	0.211420E+01	0.158860E+01	-0.357000E-01
9.800	0.583300E+00	0.105700E+01	0.366000E+01	0.195700E+01	0.145310E+01	-0.215590E+01
10.000	0.385100E+00	0.905300E+00	0.383130E+01	0.187280E+01	0.138250E+01	-0.211750E+01
10.200	0.187200E+00	0.753900E+00	0.399290E+01	0.179220E+01	0.130850E+01	-0.203190E+01
10.400	-0.790000E-02	0.601200E+00	0.414220E+01	0.172110E+01	0.123030E+01	-0.191200E+01
10.600	-0.197200E+00	0.447100E+00	0.427590E+01	0.166450E+01	0.114680E+01	-0.176430E+01
10.800	-0.377500E+00	0.292200E+00	0.439060E+01	0.162550E+01	0.105630E+01	-0.159630E+01
11.000	-0.545300E+00	0.137900E+00	0.448320E+01	0.160440E+01	0.956000E+00	-0.141750E+01
11.200	-0.697000E+00	-0.140000E-01	0.455140E+01	0.159850E+01	0.839700E+00	-0.124230E+01
11.400	-0.829300E+00	-0.161000E+00	0.459360E+01	0.160320E+01	0.695900E+00	-0.109030E+01
11.600	-0.939200E+00	-0.300700E+00	0.460900E+01	0.161260E+01	0.520600E+00	-0.974200E+00
11.800	-0.102440E+01	-0.430300E+00	0.459780E+01	0.162100E+01	0.392000E+00	-0.863900E+00
12.000	-0.108360E+01	-0.547200E+00	0.456080E+01	0.162340E+01	0.404700E+00	-0.741000E+00
12.200	-0.111630E+01	-0.648900E+00	0.449920E+01	0.161610E+01	0.516200E+00	-0.618100E+00
12.400	-0.112350E+01	-0.733100E+00	0.441440E+01	0.159710E+01	0.667100E+00	-0.495500E+00
12.600	-0.110700E+01	-0.798300E+00	0.430830E+01	0.156570E+01	0.825800E+00	-0.367500E+00
12.800	-0.106990E+01	-0.843500E+00	0.418270E+01	0.152290E+01	0.975700E+00	-0.228000E+00
13.000	-0.101580E+01	-0.868500E+00	0.404010E+01	0.147060E+01	0.110590E+01	-0.720000E-01
13.200	-0.949200E+00	-0.873800E+00	0.388300E+01	0.141120E+01	0.120730E+01	0.103700E+00
13.400	-0.874300E+00	-0.861200E+00	0.371440E+01	0.134740E+01	0.127260E+01	0.297300E+00
13.600	-0.795200E+00	-0.832800E+00	0.353740E+01	0.128170E+01	0.129820E+01	0.499900E+00
13.800	-0.715600E+00	-0.791600E+00	0.335500E+01	0.121610E+01	0.128710E+01	0.697600E+00
14.000	-0.638400E+00	-0.740400E+00	0.317030E+01	0.115220E+01	0.124910E+01	0.877100E+00
14.200	-0.565500E+00	-0.682400E+00	0.298600E+01	0.109110E+01	0.119600E+01	0.103140E+01
14.400	-0.498400E+00	-0.620500E+00	0.280440E+01	0.103350E+01	0.113740E+01	0.116010E+01
14.600	-0.437700E+00	-0.557100E+00	0.262720E+01	0.979600E+00	0.107910E+01	0.126680E+01
14.800	-0.383700E+00	-0.494200E+00	0.245600E+01	0.929700E+00	0.102390E+01	0.135600E+01
15.000	-0.336000E+00	-0.433400E+00	0.229160E+01	0.883700E+00	0.972800E+00	0.143220E+01
15.200	-0.294300E+00	-0.375800E+00	0.213480E+01	0.841500E+00	0.925900E+00	0.149900E+01
15.400	-0.258100E+00	-0.322100E+00	0.198590E+01	0.802700E+00	0.882800E+00	0.155960E+01
15.600	-0.226800E+00	-0.272800E+00	0.184500E+01	0.767100E+00	0.843000E+00	0.161600E+01
15.800	-0.199800E+00	-0.227900E+00	0.171200E+01	0.734500E+00	0.806100E+00	0.167020E+01
16.200	-0.156500E+00	-0.151600E+00	0.146920E+01	0.677000E+00	0.739500E+00	0.177700E+01
16.400	-0.139200E+00	-0.119700E+00	0.135870E+01	0.651500E+00	0.709100E+00	0.183150E+01
16.600	-0.124300E+00	-0.917000E-01	0.125500E+01	0.627900E+00	0.680200E+00	0.188760E+01
16.800	-0.111300E+00	-0.671000E-01	0.115780E+01	0.605800E+00	0.652800E+00	0.194560E+01
17.000	-0.100100E+00	-0.457000E-01	0.106680E+01	0.585100E+00	0.626600E+00	0.200600E+01
17.200	-0.903000E-01	-0.272000E-01	0.981600E+00	0.565400E+00	0.601600E+00	0.206870E+01
17.400	-0.818000E-01	-0.111000E-01	0.901900E+00	0.546600E+00	0.577600E+00	0.213370E+01
17.600	-0.743000E-01	0.260000E-02	0.827400E+00	0.528400E+00	0.554600E+00	0.220100E+01
17.800	-0.677000E-01	0.144000E-01	0.757900E+00	0.510600E+00	0.532400E+00	0.227000E+01
18.000	-0.619000E-01	0.244000E-01	0.693200E+00	0.493000E+00	0.511100E+00	0.234060E+01
18.200	-0.568000E-01	0.329000E-01	0.633000E+00	0.475400E+00	0.490500E+00	0.241200E+01
18.400	-0.522000E-01	0.400000E-01	0.577300E+00	0.457700E+00	0.470800E+00	0.248370E+01
18.600	-0.481000E-01	0.460000E-01	0.525800E+00	0.439800E+00	0.451700E+00	0.255500E+01
18.800	-0.444000E-01	0.509000E-01	0.478500E+00	0.421700E+00	0.433400E+00	0.262520E+01
19.000	-0.410000E-01	0.550000E-01	0.435100E+00	0.403300E+00	0.415800E+00	0.269360E+01
19.200	-0.380000E-01	0.583000E-01	0.395500E+00	0.384700E+00	0.398900E+00	0.275950E+01
19.400	-0.353000E-01	0.609000E-01	0.359600E+00	0.366000E+00	0.382700E+00	0.282250E+01

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3 19.600 -0.328000E-01 0.630000E-01 0.327100E+00 0.347200E+00 0.367000E+00 0.288200E+01
4 19.800 -0.305000E-01 0.646000E-01 0.297700E+00 0.328300E+00 0.351700E+00 0.293760E+01
5 20.000 -0.285000E-01 0.657000E-01 0.271300E+00 0.309700E+00 0.337100E+00 0.298910E+01
6 20.200 -0.265000E-01 0.665000E-01 0.247700E+00 0.291300E+00 0.323100E+00 0.303610E+01
7 20.400 -0.248000E-01 0.670000E-01 0.226500E+00 0.273300E+00 0.309700E+00 0.307850E+01
8 20.600 -0.231000E-01 0.672000E-01 0.207500E+00 0.255800E+00 0.296800E+00 0.311610E+01
9 20.800 -0.216000E-01 0.672000E-01 0.190600E+00 0.238800E+00 0.284400E+00 0.314890E+01
10 21.200 -0.189000E-01 0.666000E-01 0.162000E+00 0.206700E+00 0.260900E+00 0.319980E+01
11 21.600 -0.166000E-01 0.655000E-01 0.139000E+00 0.177300E+00 0.239400E+00 0.323190E+01
12 22.000 -0.145000E-01 0.640000E-01 0.120600E+00 0.150700E+00 0.219300E+00 0.324840E+01
13 22.400 -0.127000E-01 0.622000E-01 0.105600E+00 0.127000E+00 0.200600E+00 0.325540E+01
14 22.600 -0.119000E-01 0.613000E-01 0.992000E-01 0.116200E+00 0.191700E+00 0.325770E+01
15 22.800 -0.111000E-01 0.603000E-01 0.934000E-01 0.106200E+00 0.183100E+00 0.326020E+01
16 23.000 -0.104000E-01 0.593000E-01 0.881000E-01 0.968000E-01 0.174900E+00 0.326370E+01
17 23.200 -0.970000E-02 0.583000E-01 0.833000E-01 0.880000E-01 0.166900E+00 0.326820E+01
18 23.800 -0.780000E-02 0.552000E-01 0.712000E-01 0.655000E-01 0.144700E+00 0.328750E+01
19 24.000 -0.730000E-02 0.541000E-01 0.678000E-01 0.592000E-01 0.137800E+00 0.329450E+01
20 24.200 -0.680000E-02 0.531000E-01 0.646000E-01 0.533000E-01 0.131200E+00 0.330110E+01
21 24.400 -0.630000E-02 0.521000E-01 0.617000E-01 0.480000E-01 0.124800E+00 0.330710E+01
22 24.600 -0.580000E-02 0.511000E-01 0.590000E-01 0.432000E-01 0.118700E+00 0.331210E+01
23 24.800 -0.540000E-02 0.501000E-01 0.565000E-01 0.388000E-01 0.112800E+00 0.331600E+01
24 25.000 -0.490000E-02 0.491000E-01 0.542000E-01 0.348000E-01 0.107200E+00 0.331860E+01
25 25.200 -0.450000E-02 0.481000E-01 0.520000E-01 0.311000E-01 0.101800E+00 0.332010E+01
26 25.400 -0.420000E-02 0.472000E-01 0.500000E-01 0.278000E-01 0.966000E-01 0.332040E+01
27 25.600 -0.380000E-02 0.462000E-01 0.481000E-01 0.249000E-01 0.917000E-01 0.331970E+01
28 25.800 -0.350000E-02 0.453000E-01 0.463000E-01 0.222000E-01 0.870000E-01 0.331750E+01
29 26.000 -0.310000E-02 0.444000E-01 0.446000E-01 0.198000E-01 0.826000E-01 0.331580E+01
30 26.200 -0.280000E-02 0.435000E-01 0.430000E-01 0.176000E-01 0.783000E-01 0.331280E+01
31 26.400 -0.250000E-02 0.427000E-01 0.415000E-01 0.156000E-01 0.742000E-01 0.330920E+01
32 26.600 -0.230000E-02 0.418000E-01 0.401000E-01 0.139000E-01 0.702000E-01 0.330500E+01
33 26.800 -0.200000E-02 0.410000E-01 0.387000E-01 0.123000E-01 0.666000E-01 0.330040E+01
34 27.000 -0.180000E-02 0.402000E-01 0.374000E-01 0.109000E-01 0.631000E-01 0.329540E+01
35 27.200 -0.150000E-02 0.394000E-01 0.362000E-01 0.960000E-02 0.598000E-01 0.329010E+01
36 27.400 -0.130000E-02 0.386000E-01 0.350000E-01 0.840000E-02 0.567000E-01 0.328460E+01
37 27.600 -0.110000E-02 0.378000E-01 0.339000E-01 0.740000E-02 0.537000E-01 0.327880E+01
38 27.800 -0.900000E-03 0.371000E-01 0.329000E-01 0.650000E-02 0.509000E-01 0.327290E+01
39 28.000 -0.700000E-03 0.364000E-01 0.319000E-01 0.560000E-02 0.482000E-01 0.326680E+01
40 28.400 -0.300000E-03 0.350000E-01 0.300000E-01 0.420000E-02 0.432000E-01 0.325420E+01
41 29.000 0.200000E-03 0.330000E-01 0.274000E-01 0.250000E-02 0.367000E-01 0.323480E+01
42 29.200 0.300000E-03 0.324000E-01 0.266000E-01 0.210000E-02 0.348000E-01 0.322820E+01
43 29.400 0.500000E-03 0.318000E-01 0.259000E-01 0.170000E-02 0.329000E-01 0.322150E+01
44 29.600 0.600000E-03 0.312000E-01 0.252000E-01 0.130000E-02 0.311000E-01 0.321470E+01
45 29.800 0.700000E-03 0.306000E-01 0.245000E-01 0.100000E-02 0.295000E-01 0.320820E+01
46 30.000 0.800000E-03 0.300000E-01 0.238000E-01 0.700000E-03 0.279000E-01 0.320160E+01
47 30.200 0.100000E-02 0.295000E-01 0.231000E-01 0.400000E-03 0.264000E-01 0.319490E+01
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Table 6: (3)³Π -(3-7)³Π transitions

R	3-3	3-4	3-5	3-6	3-7
3.000	-0.113100E+00	0.311200E+00	-0.183100E+00	-0.213600E+00	0.337900E+00
3.200	-0.175500E+00	0.229300E+00	-0.211200E+00	-0.192500E+00	0.337800E+00
3.400	-0.203300E+00	0.161100E+00	-0.244300E+00	-0.167800E+00	0.229800E+00
3.600	-0.215200E+00	0.102900E+00	-0.287900E+00	-0.170300E+00	0.197000E+00
3.800	-0.222600E+00	0.494000E-01	-0.344700E+00	-0.206000E+00	0.180600E+00
4.000	-0.230800E+00	-0.109000E-01	-0.420100E+00	-0.265300E+00	0.180600E+00
4.200	-0.240300E+00	-0.109400E+00	-0.531200E+00	-0.332400E+00	0.212700E+00
4.400	-0.235600E+00	-0.360900E+00	-0.744600E+00	-0.383200E+00	0.327500E+00
4.600	-0.161600E+00	-0.154750E+01	-0.153160E+01	-0.271000E+00	0.899100E+00
4.800	-0.473500E+01	-0.213490E+01	-0.350460E+01	-0.499300E+00	0.254340E+01
5.000	-0.533480E+01	-0.140890E+01	-0.370080E+01	-0.421100E+00	0.263510E+01
5.200	-0.542960E+01	-0.134780E+01	-0.380560E+01	-0.179400E+00	0.262380E+01
5.400	-0.545090E+01	-0.148610E+01	-0.386610E+01	-0.130800E+00	0.259750E+01
5.600	-0.544300E+01	-0.173970E+01	-0.386240E+01	-0.494100E+00	0.256390E+01
5.800	-0.541660E+01	-0.204850E+01	-0.378490E+01	-0.899300E+00	0.252560E+01
6.000	-0.537590E+01	-0.231570E+01	-0.366600E+01	-0.133310E+01	0.248350E+01
6.200	-0.532300E+01	-0.244420E+01	-0.357390E+01	-0.178330E+01	0.243890E+01
6.800	-0.510130E+01	-0.185260E+01	-0.358420E+01	-0.319710E+01	0.229650E+01
7.000	-0.500630E+01	-0.143850E+01	-0.356600E+01	-0.365960E+01	0.224650E+01
7.400	-0.476820E+01	-0.507900E+00	-0.338180E+01	-0.447160E+01	0.213110E+01
7.600	-0.460320E+01	0.218000E-01	-0.322230E+01	-0.480210E+01	0.205480E+01
7.800	-0.436670E+01	0.495800E+00	-0.302260E+01	-0.506190E+01	0.194710E+01
8.000	-0.397290E+01	0.107130E+01	-0.276710E+01	-0.519750E+01	0.177170E+01
8.200	-0.326070E+01	0.164690E+01	-0.240540E+01	-0.507000E+01	0.146600E+01
8.400	-0.220820E+01	0.191200E+01	-0.190150E+01	-0.452390E+01	0.101130E+01
8.600	-0.127530E+01	0.168470E+01	-0.138950E+01	-0.375900E+01	0.557900E+00
8.800	-0.735600E+00	0.127850E+01	-0.101300E+01	-0.312670E+01	0.241400E+00
9.000	-0.460900E+00	0.907500E+00	-0.766400E+00	-0.269120E+01	0.467000E-01
9.200	-0.319300E+00	0.600500E+00	-0.604700E+00	-0.239570E+01	-0.714000E-01
9.400	-0.245800E+00	0.341100E+00	-0.496500E+00	-0.218860E+01	-0.139600E+00
9.800	-0.201300E+00	0.101200E+00	-0.374000E+00	-0.192310E+01	-0.550900E+00
10.000	-0.210100E+00	0.306100E+00	-0.341800E+00	-0.183250E+01	-0.681000E+00
10.200	-0.233700E+00	0.509400E+00	-0.321400E+00	-0.175740E+01	-0.796600E+00
10.400	-0.270200E+00	0.715100E+00	-0.308000E+00	-0.169130E+01	-0.901700E+00
10.600	-0.318400E+00	0.926100E+00	-0.297100E+00	-0.162820E+01	-0.998400E+00
10.800	-0.377300E+00	0.114350E+01	-0.284500E+00	-0.156150E+01	-0.109020E+01
11.000	-0.446300E+00	0.136760E+01	-0.266700E+00	-0.148080E+01	-0.118560E+01
11.200	-0.524500E+00	0.159750E+01	-0.241200E+00	-0.136520E+01	-0.129930E+01
11.400	-0.611200E+00	0.183180E+01	-0.206800E+00	-0.116840E+01	-0.145600E+01
11.600	-0.705300E+00	0.206910E+01	-0.163200E+00	-0.816400E+00	-0.165300E+01
11.800	-0.805500E+00	0.230740E+01	-0.111400E+00	-0.376200E+00	-0.177630E+01
12.000	-0.910400E+00	0.254500E+01	-0.532000E-01	-0.871000E-01	-0.178190E+01
12.200	-0.101800E+01	0.278000E+01	0.920000E-02	-0.271000E-01	-0.175010E+01
12.400	-0.112590E+01	0.301040E+01	0.733000E-01	-0.348000E-01	-0.171570E+01
12.600	-0.123140E+01	0.323390E+01	0.136500E+00	0.228000E-01	-0.168300E+01
12.800	-0.133120E+01	0.344780E+01	0.196500E+00	0.126600E+00	-0.164870E+01
13.000	-0.142210E+01	0.364940E+01	0.251600E+00	0.266800E+00	-0.160710E+01
13.200	-0.150080E+01	0.383570E+01	0.300400E+00	0.435500E+00	-0.155100E+01
13.400	-0.156450E+01	0.400410E+01	0.342300E+00	0.622800E+00	-0.147400E+01
13.600	-0.161080E+01	0.415210E+01	0.377200E+00	0.814100E+00	-0.137390E+01
13.800	-0.163840E+01	0.427800E+01	0.405400E+00	0.993600E+00	-0.125510E+01
14.000	-0.164700E+01	0.438050E+01	0.427400E+00	0.114940E+01	-0.112840E+01
14.200	-0.163710E+01	0.445940E+01	0.444100E+00	0.127770E+01	-0.100480E+01
14.400	-0.161030E+01	0.451480E+01	0.456400E+00	0.138070E+01	-0.892000E+00
14.600	-0.156850E+01	0.454780E+01	0.465300E+00	0.146280E+01	-0.793300E+00
14.800	-0.151430E+01	0.455970E+01	0.471600E+00	0.152860E+01	-0.709100E+00
15.000	-0.145020E+01	0.455230E+01	0.476300E+00	0.158180E+01	-0.638600E+00
15.200	-0.137890E+01	0.452770E+01	0.480100E+00	0.162500E+01	-0.580100E+00
15.400	-0.130280E+01	0.448790E+01	0.483800E+00	0.166020E+01	-0.531900E+00
15.600	-0.122410E+01	0.443510E+01	0.488100E+00	0.168860E+01	-0.492500E+00
15.800	-0.114470E+01	0.437140E+01	0.493600E+00	0.171130E+01	-0.460600E+00
16.200	-0.989400E+00	0.421930E+01	0.509700E+00	0.174160E+01	-0.414000E+00
16.400	-0.915600E+00	0.413430E+01	0.521200E+00	0.175040E+01	-0.397500E+00
16.600	-0.845400E+00	0.404540E+01	0.535300E+00	0.175560E+01	-0.384300E+00
16.800	-0.779000E+00	0.395370E+01	0.552000E+00	0.175730E+01	-0.374000E+00
17.000	-0.716900E+00	0.386030E+01	0.571500E+00	0.175610E+01	-0.365800E+00
17.200	-0.658900E+00	0.376610E+01	0.593400E+00	0.175210E+01	-0.359300E+00
17.400	-0.605200E+00	0.367180E+01	0.617700E+00	0.174580E+01	-0.354000E+00
17.600	-0.555600E+00	0.357790E+01	0.643900E+00	0.173720E+01	-0.349500E+00
17.800	-0.510000E+00	0.348510E+01	0.671500E+00	0.172670E+01	-0.345300E+00
18.000	-0.468100E+00	0.339370E+01	0.699800E+00	0.171450E+01	-0.341100E+00
18.200	-0.429700E+00	0.330410E+01	0.728100E+00	0.170070E+01	-0.336500E+00
18.400	-0.394700E+00	0.321670E+01	0.755500E+00	0.168570E+01	-0.331200E+00
18.600	-0.362600E+00	0.313190E+01	0.781300E+00	0.166960E+01	-0.324800E+00
18.800	-0.333400E+00	0.305000E+01	0.804600E+00	0.165250E+01	-0.316900E+00
19.000	-0.306800E+00	0.297130E+01	0.824800E+00	0.163470E+01	-0.307600E+00

19.200	-0.282600E+00	0.289620E+01	0.841300E+00	0.161620E+01	-0.296300E+00
19.400	-0.260600E+00	0.282500E+01	0.853800E+00	0.159710E+01	-0.282900E+00
19.600	-0.240500E+00	0.275780E+01	0.861800E+00	0.157770E+01	-0.267400E+00
19.800	-0.222300E+00	0.269460E+01	0.865100E+00	0.155810E+01	-0.249700E+00
20.000	-0.205700E+00	0.263560E+01	0.864100E+00	0.153820E+01	-0.229300E+00
20.200	-0.190600E+00	0.258090E+01	0.858800E+00	0.151810E+01	-0.206400E+00
20.400	-0.176900E+00	0.253020E+01	0.849500E+00	0.149800E+01	-0.180900E+00
20.600	-0.164500E+00	0.248350E+01	0.836400E+00	0.147780E+01	-0.152900E+00
20.800	-0.153200E+00	0.244050E+01	0.820000E+00	0.145760E+01	-0.122500E+00
21.200	-0.133500E+00	0.236520E+01	0.778500E+00	0.141710E+01	-0.561000E-01
21.600	-0.117300E+00	0.230230E+01	0.728200E+00	0.137660E+01	0.139000E-01
22.000	-0.103900E+00	0.225010E+01	0.671500E+00	0.133600E+01	0.807000E-01
22.400	-0.928000E-01	0.220690E+01	0.611300E+00	0.129490E+01	0.136000E+00
22.600	-0.880000E-01	0.218810E+01	0.580500E+00	0.127410E+01	0.157100E+00
22.800	-0.836000E-01	0.217110E+01	0.549700E+00	0.125320E+01	0.173200E+00
23.000	-0.796000E-01	0.215550E+01	0.519100E+00	0.123210E+01	0.184000E+00
23.200	-0.760000E-01	0.214140E+01	0.488800E+00	0.121070E+01	0.189700E+00
23.800	-0.670000E-01	0.210620E+01	0.402400E+00	0.114530E+01	0.180500E+00
24.000	-0.645000E-01	0.209640E+01	0.375500E+00	0.112330E+01	0.170900E+00
24.200	-0.622000E-01	0.208760E+01	0.349700E+00	0.110100E+01	0.159500E+00
24.400	-0.601000E-01	0.207950E+01	0.325100E+00	0.107850E+01	0.146800E+00
24.600	-0.583000E-01	0.207210E+01	0.301700E+00	0.105590E+01	0.133600E+00
24.800	-0.565000E-01	0.206540E+01	0.279700E+00	0.103340E+01	0.120300E+00
25.000	-0.549000E-01	0.205930E+01	0.258900E+00	0.101080E+01	0.107300E+00
25.200	-0.535000E-01	0.205370E+01	0.239500E+00	0.988400E+00	0.949000E-01
25.400	-0.522000E-01	0.204860E+01	0.221300E+00	0.966000E+00	0.832000E-01
25.600	-0.510000E-01	0.204390E+01	0.204400E+00	0.943800E+00	0.724000E-01
25.800	-0.498000E-01	0.203960E+01	0.188600E+00	0.921700E+00	0.625000E-01
26.000	-0.488000E-01	0.203570E+01	0.174100E+00	0.899900E+00	0.536000E-01
26.200	-0.478000E-01	0.203210E+01	0.160600E+00	0.878400E+00	0.455000E-01
26.400	-0.470000E-01	0.202890E+01	0.148200E+00	0.857100E+00	0.383000E-01
26.600	-0.461000E-01	0.202590E+01	0.136800E+00	0.836300E+00	0.319000E-01
26.800	-0.454000E-01	0.202310E+01	0.126300E+00	0.815700E+00	0.262000E-01
27.000	-0.447000E-01	0.202060E+01	0.116600E+00	0.795500E+00	0.211000E-01
27.200	-0.440000E-01	0.201830E+01	0.107800E+00	0.775500E+00	0.167000E-01
27.400	-0.434000E-01	0.201620E+01	0.997000E-01	0.756000E+00	0.128000E-01
27.600	-0.428000E-01	0.201420E+01	0.924000E-01	0.736800E+00	0.940000E-02
27.800	-0.422000E-01	0.201240E+01	0.857000E-01	0.718000E+00	0.650000E-02
28.000	-0.417000E-01	0.201080E+01	0.795000E-01	0.699600E+00	0.380000E-02
28.400	-0.407000E-01	0.200790E+01	0.689000E-01	0.663900E+00	0.400000E-03
29.000	-0.394000E-01	0.200430E+01	0.563000E-01	0.613400E+00	0.480000E-02
29.200	-0.389000E-01	0.200330E+01	0.528000E-01	0.597300E+00	0.590000E-02
29.400	-0.385000E-01	0.200240E+01	0.497000E-01	0.581600E+00	0.690000E-02
29.600	-0.381000E-01	0.200120E+01	0.469000E-01	0.566200E+00	0.760000E-02
29.800	-0.378000E-01	0.200070E+01	0.443000E-01	0.551300E+00	0.830000E-02
30.000	-0.374000E-01	0.199990E+01	0.420000E-01	0.536700E+00	0.880000E-02
30.200	-0.370000E-01	0.199920E+01	0.399000E-01	0.522300E+00	0.930000E-02
30.600	-0.363000E-01	0.199790E+01	0.364000E-01	0.494800E+00	0.100000E-01

The following tables display the transition dipole moments between the four lowest Σ^+ states with the lowest seven Π states of **NaRb**, for singlet (Tables 1 to 4) and triplet (Tables 5 to 8) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr =0.0529177 nm, and 1 a.u. =2.54158059 Debye. All states are identified with their number with increasing energy.

Table 1: (1)¹ Σ^+ -(1-7)¹ Π transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
4.400	0.318310E+01	0.275100E+00	-0.148100E+00	0.304000E+00	0.305100E+00	-0.159000E-01	0.533000E-01
4.600	0.316140E+01	0.436200E+00	-0.937000E-01	0.349600E+00	0.279400E+00	-0.840000E-02	0.283000E-01
4.800	0.313840E+01	0.568400E+00	0.233000E-01	0.391300E+00	0.246700E+00	-0.240000E-02	0.400000E-03
5.000	0.311630E+01	0.676100E+00	0.546000E-01	0.425700E+00	0.207800E+00	-0.130000E-02	0.316000E-01
5.200	0.309640E+01	0.764400E+00	0.131600E+00	0.452800E+00	0.164500E+00	-0.170000E-02	0.643000E-01
5.400	0.307900E+01	0.838300E+00	0.201100E+00	0.474300E+00	0.119000E+00	0.120000E-02	-0.970000E-01
5.600	0.306410E+01	0.902500E+00	0.259100E+00	0.493000E+00	0.738000E-01	0.700000E-02	-0.128600E+00
5.800	0.305120E+01	0.960900E+00	0.303800E+00	0.511500E+00	0.309000E-01	0.147000E-01	-0.158100E+00
6.000	0.304000E+01	0.101690E+01	0.334900E+00	0.531500E+00	-0.820000E-02	0.231000E-01	-0.185100E+00
6.200	0.302960E+01	0.107300E+01	0.352900E+00	0.554300E+00	-0.428000E-01	0.314000E-01	-0.209000E+00
6.800	0.299730E+01	0.125750E+01	0.338600E+00	0.637000E+00	-0.121700E+00	0.497000E-01	-0.261600E+00
7.000	0.298390E+01	0.132730E+01	0.317300E+00	0.665400E+00	-0.141100E+00	0.534000E-01	-0.272600E+00
7.400	0.294980E+01	0.148050E+01	0.263800E+00	0.715300E+00	-0.172000E+00	0.582000E-01	-0.285400E+00
7.600	0.292850E+01	0.156300E+01	0.235900E+00	0.735500E+00	-0.184100E+00	0.598000E-01	-0.287300E+00
7.800	0.290420E+01	0.164820E+01	0.209100E+00	0.752400E+00	-0.194100E+00	0.612000E-01	-0.286300E+00
8.000	0.287720E+01	0.173510E+01	0.184100E+00	0.766100E+00	-0.202000E+00	0.623000E-01	-0.282600E+00
8.200	0.284790E+01	0.182230E+01	0.161400E+00	0.776800E+00	-0.207700E+00	0.633000E-01	-0.276300E+00
8.400	0.281700E+01	0.190860E+01	0.141000E+00	0.784700E+00	-0.211200E+00	0.644000E-01	-0.267600E+00
8.600	0.278530E+01	0.199260E+01	0.123100E+00	0.790100E+00	-0.212300E+00	0.653000E-01	-0.256600E+00
8.800	0.275380E+01	0.207320E+01	0.107800E+00	0.792800E+00	-0.211000E+00	0.662000E-01	-0.243700E+00
9.000	0.272310E+01	0.214960E+01	0.952000E-01	0.792900E+00	-0.207300E+00	0.669000E-01	-0.229100E+00
9.200	0.269410E+01	0.222110E+01	0.853000E-01	0.790300E+00	-0.201300E+00	0.675000E-01	-0.213200E+00
9.400	0.266740E+01	0.228740E+01	0.783000E-01	0.784900E+00	-0.193200E+00	0.677000E-01	-0.196500E+00
9.800	0.262240E+01	0.240380E+01	0.733000E-01	0.765600E+00	-0.172400E+00	0.671000E-01	-0.162400E+00
10.000	0.260440E+01	0.245400E+01	0.755000E-01	0.751700E+00	-0.160500E+00	0.661000E-01	-0.145800E+00
10.200	0.258940E+01	0.249900E+01	0.805000E-01	0.735200E+00	-0.148400E+00	0.646000E-01	-0.130000E+00
10.400	0.257730E+01	0.253920E+01	0.883000E-01	0.716300E+00	-0.136400E+00	0.626000E-01	-0.115300E+00
10.600	0.256800E+01	0.257480E+01	0.984000E-01	0.695400E+00	-0.125100E+00	0.602000E-01	-0.101800E+00
10.800	0.256110E+01	0.260600E+01	0.110300E+00	0.672800E+00	-0.114700E+00	0.573000E-01	-0.898000E-01
11.000	0.255650E+01	0.263320E+01	0.123700E+00	0.649100E+00	-0.105300E+00	0.540000E-01	-0.792000E-01
11.200	0.255400E+01	0.265660E+01	0.137800E+00	0.624600E+00	-0.971000E-01	0.504000E-01	-0.699000E-01
11.400	0.255330E+01	0.267650E+01	0.152000E+00	0.599700E+00	-0.901000E-01	0.466000E-01	-0.619000E-01
11.600	0.255420E+01	0.269320E+01	0.166000E+00	0.575000E+00	-0.842000E-01	0.426000E-01	-0.550000E-01
11.800	0.255660E+01	0.270700E+01	0.179200E+00	0.550700E+00	-0.794000E-01	0.385000E-01	-0.492000E-01
12.000	0.256020E+01	0.271830E+01	0.191300E+00	0.527100E+00	-0.753000E-01	0.343000E-01	-0.441000E-01
12.200	0.256480E+01	0.272720E+01	0.202000E+00	0.504500E+00	-0.720000E-01	0.301000E-01	-0.396000E-01
12.400	0.257040E+01	0.273410E+01	0.211100E+00	0.483000E+00	-0.691000E-01	0.260000E-01	-0.353000E-01
12.600	0.257690E+01	0.273920E+01	0.218700E+00	0.462800E+00	-0.666000E-01	0.219000E-01	-0.306000E-01
12.800	0.258390E+01	0.274270E+01	0.224600E+00	0.443900E+00	-0.642000E-01	0.179000E-01	-0.244000E-01
13.000	0.259160E+01	0.274480E+01	0.228900E+00	0.426400E+00	-0.618000E-01	0.141000E-01	-0.150000E-01
13.200	0.259970E+01	0.274570E+01	0.231700E+00	0.410400E+00	-0.593000E-01	0.105000E-01	-0.310000E-02
13.400	0.260830E+01	0.274560E+01	0.233200E+00	0.395600E+00	-0.567000E-01	0.720000E-02	-0.550000E-02
13.600	0.261710E+01	0.274470E+01	0.233400E+00	0.382200E+00	-0.538000E-01	0.420000E-02	-0.940000E-02
13.800	0.262610E+01	0.274300E+01	0.232500E+00	0.370000E+00	-0.508000E-01	0.150000E-02	-0.107000E-01
14.000	0.263520E+01	0.274060E+01	0.230600E+00	0.359000E+00	-0.477000E-01	-0.900000E-03	-0.110000E-01
14.200	0.264450E+01	0.273770E+01	0.227900E+00	0.349000E+00	-0.443000E-01	-0.290000E-02	-0.109000E-01
14.400	0.265380E+01	0.273440E+01	0.224500E+00	0.340100E+00	-0.409000E-01	-0.460000E-02	-0.104000E-01
14.600	0.266310E+01	0.273060E+01	0.220500E+00	0.332000E+00	-0.374000E-01	-0.580000E-02	-0.990000E-02
14.800	0.267230E+01	0.272660E+01	0.216000E+00	0.324800E+00	-0.340000E-01	-0.680000E-02	-0.920000E-02
15.000	0.268140E+01	0.272240E+01	0.211100E+00	0.318300E+00	-0.306000E-01	-0.740000E-02	-0.850000E-02
15.200	0.269050E+01	0.271790E+01	0.205900E+00	0.312500E+00	-0.273000E-01	-0.770000E-02	-0.770000E-02
15.400	0.269930E+01	0.271330E+01	0.200500E+00	0.307200E+00	-0.241000E-01	-0.790000E-02	-0.680000E-02
15.600	0.270800E+01	0.270870E+01	0.195000E+00	0.302500E+00	-0.210000E-01	-0.780000E-02	-0.590000E-02
15.800	0.271660E+01	0.270390E+01	0.189300E+00	0.298300E+00	-0.181000E-01	-0.750000E-02	-0.500000E-02
16.200	0.273300E+01	0.269430E+01	0.177900E+00	0.291100E+00	-0.129000E-01	-0.680000E-02	-0.290000E-02
16.400	0.274090E+01	0.268950E+01	0.172200E+00	0.288000E+00	-0.105000E-01	-0.630000E-02	-0.180000E-02
16.600	0.274860E+01	0.268470E+01	0.166600E+00	0.285200E+00	-0.830000E-02	-0.580000E-02	-0.600000E-03
16.800	0.275610E+01	0.268000E+01	0.161000E+00	0.282700E+00	-0.630000E-02	-0.530000E-02	0.600000E-03
17.000	0.276330E+01	0.267540E+01	0.155600E+00	0.280400E+00	-0.440000E-02	-0.480000E-02	0.180000E-02
17.200	0.277030E+01	0.267080E+01	0.150300E+00	0.278400E+00	-0.260000E-02	-0.430000E-02	0.300000E-02
17.400	0.277710E+01	0.266630E+01	0.145100E+00	0.276500E+00	-0.100000E-02	-0.380000E-02	0.410000E-02
17.600	0.278360E+01	0.266180E+01	0.140100E+00	0.274800E+00	0.400000E-03	-0.340000E-02	0.520000E-02
17.800	0.279000E+01	0.265750E+01	0.135300E+00	0.273300E+00	0.180000E-02	-0.290000E-02	0.630000E-02
18.000	0.279610E+01	0.265330E+01	0.130600E+00	0.271900E+00	0.300000E-02	-0.250000E-02	0.730000E-02
18.600	0.281320E+01	0.264120E+01	0.117500E+00	0.268400E+00	0.610000E-02	-0.130000E-02	0.990000E-02
19.000	0.282360E+01	0.263370E+01	0.109600E+00	0.266500E+00	0.780000E-02	-0.500000E-03	0.111000E-01
19.200	0.282860E+01	0.263000E+01	0.105900E+00	0.265700E+00	0.850000E-02	-0.100000E-03	0.115000E-01

19.400	0.283330E+01	0.262650E+01	0.102300E+00	0.264900E+00	0.920000E-02	0.400000E-03	0.118000E-01
19.800	0.284230E+01	0.261980E+01	0.956000E-01	0.263600E+00	0.103000E-01	0.120000E-02	0.127000E-01
20.000	0.284660E+01	0.261660E+01	0.925000E-01	0.263000E+00	0.109000E-01	0.170000E-02	0.130000E-01
20.400	0.285460E+01	0.261050E+01	0.866000E-01	0.261900E+00	0.117000E-01	0.270000E-02	0.133000E-01
20.600	0.285850E+01	0.260760E+01	0.839000E-01	0.261500E+00	0.121000E-01	0.330000E-02	0.133000E-01
21.600	0.287560E+01	0.259430E+01	0.718000E-01	0.259500E+00	0.135000E-01	0.640000E-02	0.122000E-01
22.400	0.288730E+01	0.258510E+01	0.637000E-01	0.258400E+00	0.142000E-01	0.920000E-02	0.101000E-01
22.600	0.289000E+01	0.258300E+01	0.619000E-01	0.258200E+00	0.144000E-01	0.100000E-01	0.940000E-02
22.800	0.289250E+01	0.258090E+01	0.601000E-01	0.257900E+00	0.145000E-01	0.107000E-01	0.870000E-02
23.000	0.289500E+01	0.257890E+01	0.584000E-01	0.257700E+00	0.146000E-01	0.115000E-01	0.810000E-02
23.200	0.289750E+01	0.257700E+01	0.568000E-01	0.257500E+00	0.147000E-01	0.123000E-01	0.740000E-02
23.800	0.290420E+01	0.257150E+01	0.522000E-01	0.257000E+00	0.149000E-01	0.148000E-01	0.570000E-02
24.000	0.290630E+01	0.256980E+01	0.507000E-01	0.256800E+00	0.149000E-01	0.157000E-01	0.500000E-02
24.200	0.290840E+01	0.256810E+01	0.494000E-01	0.256700E+00	0.149000E-01	0.165000E-01	0.450000E-02
24.400	0.291040E+01	0.256660E+01	0.480000E-01	0.256500E+00	0.149000E-01	0.174000E-01	0.410000E-02
24.600	0.291230E+01	0.256500E+01	0.468000E-01	0.256400E+00	0.149000E-01	0.183000E-01	0.380000E-02
24.800	0.291410E+01	0.256350E+01	0.455000E-01	0.256300E+00	0.149000E-01	0.192000E-01	0.350000E-02
25.000	0.291590E+01	0.256200E+01	0.443000E-01	0.256100E+00	0.149000E-01	0.201000E-01	0.330000E-02
25.200	0.291770E+01	0.256060E+01	0.431000E-01	0.256000E+00	0.149000E-01	0.210000E-01	0.300000E-02
25.400	0.291940E+01	0.255920E+01	0.420000E-01	0.255900E+00	0.148000E-01	0.219000E-01	0.280000E-02
25.600	0.292100E+01	0.255780E+01	0.409000E-01	0.255800E+00	0.148000E-01	0.229000E-01	0.260000E-02
25.800	0.292260E+01	0.255600E+01	0.398000E-01	0.255700E+00	0.147000E-01	0.238000E-01	0.240000E-02
26.000	0.292410E+01	0.255520E+01	0.388000E-01	0.255600E+00	0.146000E-01	0.247000E-01	0.230000E-02
26.200	0.292560E+01	0.255410E+01	0.378000E-01	0.255600E+00	0.145000E-01	0.256000E-01	0.210000E-02
26.400	0.292710E+01	0.255290E+01	0.368000E-01	0.255500E+00	0.144000E-01	0.265000E-01	0.200000E-02
26.600	0.292850E+01	0.255170E+01	0.358000E-01	0.255400E+00	0.143000E-01	0.274000E-01	0.190000E-02
26.800	0.292980E+01	0.255060E+01	0.349000E-01	0.255300E+00	0.141000E-01	0.283000E-01	0.180000E-02
27.000	0.293120E+01	0.254950E+01	0.340000E-01	0.255200E+00	0.140000E-01	0.292000E-01	0.170000E-02
27.200	0.293250E+01	0.254840E+01	0.331000E-01	0.255200E+00	0.138000E-01	0.301000E-01	0.160000E-02
27.400	0.293370E+01	0.254730E+01	0.323000E-01	0.255100E+00	0.136000E-01	0.310000E-01	0.150000E-02
27.600	0.293490E+01	0.254630E+01	0.314000E-01	0.255100E+00	0.134000E-01	0.318000E-01	0.140000E-02
27.800	0.293610E+01	0.254530E+01	0.306000E-01	0.255000E+00	0.132000E-01	0.327000E-01	0.130000E-02
28.000	0.293730E+01	0.254440E+01	0.298000E-01	0.254900E+00	0.130000E-01	0.335000E-01	0.130000E-02
28.400	0.293950E+01	0.254250E+01	0.283000E-01	0.254800E+00	0.126000E-01	0.351000E-01	0.110000E-02
29.000	0.294260E+01	0.254000E+01	0.262000E-01	0.254700E+00	0.118000E-01	0.374000E-01	0.900000E-03
29.200	0.294350E+01	0.253910E+01	0.255000E-01	0.254700E+00	0.116000E-01	0.381000E-01	0.900000E-03
29.400	0.294450E+01	0.253830E+01	0.249000E-01	0.254600E+00	0.113000E-01	0.387000E-01	0.800000E-03
29.600	0.294540E+01	0.253750E+01	0.242000E-01	0.254600E+00	0.110000E-01	0.394000E-01	0.800000E-03
29.800	0.294630E+01	0.253680E+01	0.236000E-01	0.254500E+00	0.108000E-01	0.400000E-01	0.700000E-03
30.000	0.294660E+01	0.253550E+01	0.230000E-01	0.254400E+00	0.105000E-01	0.405000E-01	0.700000E-03
30.600	0.294970E+01	0.253390E+01	0.213000E-01	0.254400E+00	0.960000E-02	0.420000E-01	0.600000E-03

Table 2: $(2)^1\Sigma^+ - (1-7)^1\Pi$ transitions

R	2-1	2-2	2-3	2-4	2-5	2-6	2-7
4.400	0.649200E+00	-0.131210E+01	0.121570E+01	-0.171960E+01	0.138450E+01	-0.583600E+00	0.867400E+00
4.600	0.718800E+00	-0.139130E+01	0.114150E+01	-0.176910E+01	0.131150E+01	-0.629300E+00	0.923300E+00
4.800	0.781600E+00	-0.147310E+01	0.105750E+01	-0.179020E+01	0.124320E+01	-0.678200E+00	0.982000E+00
5.000	0.837200E+00	-0.155210E+01	0.980700E+00	-0.177920E+01	0.118120E+01	-0.725400E+00	0.104020E+01
5.200	0.885800E+00	-0.162350E+01	0.925600E+00	-0.173900E+01	0.112650E+01	-0.767300E+00	0.109430E+01
5.400	0.928200E+00	-0.168360E+01	0.899200E+00	-0.167750E+01	0.107950E+01	-0.802600E+00	0.114040E+01
5.600	0.965600E+00	-0.173020E+01	0.901800E+00	-0.160450E+01	0.103930E+01	-0.831900E+00	0.117590E+01
5.800	0.998900E+00	-0.176250E+01	0.930100E+00	-0.152800E+01	0.100490E+01	-0.856900E+00	0.119970E+01
6.000	0.102900E+01	-0.178050E+01	0.980300E+00	-0.145270E+01	0.975800E+00	-0.879500E+00	0.121300E+01
6.200	0.105650E+01	-0.178500E+01	0.104840E+01	-0.137990E+01	0.951800E+00	-0.900700E+00	0.121790E+01
6.800	0.112700E+01	-0.172720E+01	0.132410E+01	-0.116930E+01	0.912700E+00	-0.957500E+00	0.120660E+01
7.000	0.114630E+01	-0.168760E+01	0.142650E+01	-0.110040E+01	0.910600E+00	-0.972600E+00	0.120100E+01
7.400	0.117620E+01	-0.158450E+01	0.162550E+01	-0.973400E+00	0.921100E+00	-0.994100E+00	0.119280E+01
7.600	0.118560E+01	-0.152310E+01	0.171820E+01	-0.920100E+00	0.932900E+00	-0.100080E+01	0.119150E+01
7.800	0.119030E+01	-0.145690E+01	0.180540E+01	-0.875700E+00	0.948500E+00	-0.100500E+01	0.119270E+01
8.000	0.118980E+01	-0.138700E+01	0.188680E+01	-0.841000E+00	0.967400E+00	-0.100630E+01	0.119410E+01
8.200	0.118340E+01	-0.131460E+01	0.196250E+01	-0.816300E+00	0.988900E+00	-0.100440E+01	0.119480E+01
8.400	0.117070E+01	-0.124130E+01	0.203290E+01	-0.801200E+00	0.101300E+01	-0.100170E+01	0.119780E+01
8.600	0.115170E+01	-0.116780E+01	0.209790E+01	-0.795500E+00	0.103880E+01	-0.996500E+00	0.119910E+01
8.800	0.112650E+01	-0.109520E+01	0.215770E+01	-0.798300E+00	0.106600E+01	-0.990000E+00	0.119950E+01
9.000	0.109540E+01	-0.102420E+01	0.221230E+01	-0.809000E+00	0.109400E+01	-0.982400E+00	0.119860E+01
9.200	0.105890E+01	-0.955200E+00	0.226200E+01	-0.826700E+00	0.112240E+01	-0.974100E+00	0.119640E+01
9.400	0.101800E+01	-0.888200E+00	0.230660E+01	-0.850300E+00	0.115080E+01	-0.965400E+00	0.119270E+01
9.800	0.925600E+00	-0.760600E+00	0.238150E+01	-0.910600E+00	0.120640E+01	-0.948400E+00	0.118160E+01
10.000	0.876000E+00	-0.699600E+00	0.241210E+01	-0.944700E+00	0.123340E+01	-0.940800E+00	0.117470E+01
10.200	0.825200E+00	-0.640300E+00	0.243840E+01	-0.979700E+00	0.126010E+01	-0.934300E+00	0.116740E+01
10.400	0.773900E+00	-0.582400E+00	0.246060E+01	-0.101440E+01	0.128660E+01	-0.929000E+00	0.116000E+01
10.600	0.722800E+00	-0.526100E+00	0.247900E+01	-0.104750E+01	0.131320E+01	-0.925400E+00	0.115260E+01
10.800	0.672500E+00	-0.471300E+00	0.249410E+01	-0.107780E+01	0.134030E+01	-0.923500E+00	0.114540E+01
11.000	0.623300E+00	-0.418300E+00	0.250600E+01	-0.110450E+01	0.136790E+01	-0.923600E+00	0.113860E+01
11.200	0.575800E+00	-0.367300E+00	0.251540E+01	-0.112650E+01	0.139640E+01	-0.925700E+00	0.113220E+01
11.400	0.530200E+00	-0.318600E+00	0.252270E+01	-0.114330E+01	0.142570E+01	-0.929900E+00	0.112630E+01
11.600	0.486700E+00	-0.272500E+00	0.252850E+01	-0.115410E+01	0.145570E+01	-0.936400E+00	0.112100E+01
11.800	0.445500E+00	-0.229000E+00	0.253310E+01	-0.115880E+01	0.148590E+01	-0.945000E+00	0.111600E+01
12.000	0.406600E+00	-0.188400E+00	0.253720E+01	-0.115700E+01	0.151590E+01	-0.955900E+00	0.111130E+01
12.200	0.370200E+00	-0.150800E+00	0.254130E+01	-0.114880E+01	0.154500E+01	-0.968900E+00	0.110660E+01
12.400	0.336100E+00	-0.116100E+00	0.254580E+01	-0.113440E+01	0.157230E+01	-0.984200E+00	0.110040E+01
12.600	0.304500E+00	-0.844000E-01	0.255110E+01	-0.111430E+01	0.159690E+01	-0.100150E+01	0.108830E+01
12.800	0.275100E+00	-0.555000E-01	0.255750E+01	-0.108910E+01	0.161770E+01	-0.102070E+01	0.105620E+01
13.000	0.248000E+00	-0.293000E-01	0.256520E+01	-0.105950E+01	0.163390E+01	-0.104160E+01	0.961100E+00
13.200	0.223100E+00	0.560000E-02	0.257460E+01	-0.102610E+01	0.164450E+01	-0.106370E+01	0.747700E+00
13.400	0.200200E+00	0.157000E-01	0.258560E+01	-0.989900E+00	0.164890E+01	-0.108630E+01	0.496400E+00
13.600	0.179400E+00	0.347000E-01	0.259830E+01	-0.951400E+00	0.164660E+01	-0.110880E+01	0.300700E+00
13.800	0.160400E+00	0.516000E-01	0.261280E+01	-0.911300E+00	0.163740E+01	-0.113010E+01	0.153900E+00
14.000	0.143100E+00	0.667000E-01	0.262900E+01	-0.870100E+00	0.162130E+01	-0.114910E+01	0.347000E-01
14.200	0.127600E+00	0.800000E-01	0.264680E+01	-0.828200E+00	0.159860E+01	-0.116470E+01	0.693000E-01
14.400	0.113600E+00	0.916000E-01	0.266590E+01	-0.786100E+00	0.156980E+01	-0.117570E+01	0.164300E+00
14.600	0.101200E+00	0.101700E+00	0.268630E+01	-0.743800E+00	0.153550E+01	-0.118100E+01	0.253300E+00
14.800	0.900000E-01	0.110400E+00	0.270750E+01	-0.701800E+00	0.149670E+01	-0.117970E+01	0.337800E+00
15.000	0.802000E-01	0.117800E+00	0.272940E+01	-0.660100E+00	0.145400E+01	-0.117100E+01	0.418100E+00
15.200	0.716000E-01	0.124000E+00	0.275170E+01	-0.618800E+00	0.140850E+01	-0.115480E+01	0.494100E+00
15.400	0.640000E-01	0.129000E+00	0.277410E+01	-0.578200E+00	0.136100E+01	-0.113100E+01	0.565600E+00
15.600	0.574000E-01	0.133000E+00	0.279620E+01	-0.538500E+00	0.131230E+01	-0.109990E+01	0.631800E+00
15.800	0.517000E-01	0.136100E+00	0.281790E+01	-0.499700E+00	0.126310E+01	-0.106230E+01	0.692800E+00
16.200	0.426000E-01	0.139500E+00	0.285880E+01	-0.425800E+00	0.116570E+01	-0.971100E+00	0.794800E+00
16.400	0.390000E-01	0.140100E+00	0.287770E+01	-0.390900E+00	0.111840E+01	-0.919600E+00	0.865400E+00
16.600	0.360000E-01	0.140100E+00	0.289550E+01	-0.357600E+00	0.107280E+01	-0.865900E+00	0.839100E+00
16.800	0.333000E-01	0.139400E+00	0.291200E+01	-0.326000E+00	0.102880E+01	-0.810800E+00	0.896200E+00
17.000	0.311000E-01	0.138300E+00	0.292720E+01	-0.296200E+00	0.986900E+00	-0.755400E+00	0.917000E+00
17.200	0.292000E-01	0.136700E+00	0.294120E+01	-0.268200E+00	0.947100E+00	-0.700400E+00	0.931800E+00
17.400	0.276000E-01	0.134700E+00	0.295400E+01	-0.242000E+00	0.909600E+00	-0.646700E+00	0.941300E+00
17.600	0.262000E-01	0.132400E+00	0.296570E+01	-0.217700E+00	0.874500E+00	-0.594700E+00	0.945900E+00
17.800	0.250000E-01	0.129900E+00	0.297620E+01	-0.195200E+00	0.841600E+00	-0.544800E+00	0.946300E+00
18.000	0.239000E-01	0.127100E+00	0.298580E+01	-0.174500E+00	0.811000E+00	-0.497400E+00	0.943100E+00
18.600	0.212000E-01	0.118100E+00	0.300970E+01	-0.122100E+00	0.732500E+00	-0.371200E+00	0.917300E+00
19.000	0.198000E-01	0.111700E+00	0.302220E+01	-0.945000E-01	0.690100E+00	-0.300500E+00	0.891900E+00
19.200	0.191000E-01	0.108500E+00	0.302760E+01	-0.827000E-01	0.671700E+00	-0.269000E+00	0.878000E+00
19.400	0.185000E-01	0.105300E+00	0.303260E+01	-0.720000E-01	0.654800E+00	-0.239900E+00	0.864100E+00
19.800	0.173000E-01	0.991000E-01	0.304150E+01	-0.536000E-01	0.625600E+00	-0.188800E+00	0.837200E+00
20.000	0.167000E-01	0.960000E-01	0.304540E+01	-0.459000E-01	0.613000E+00	-0.166200E+00	0.824900E+00
20.400	0.156000E-01	0.901000E-01	0.305250E+01	-0.326000E-01	0.591300E+00	-0.126500E+00	0.84100E+00
20.600	0.150000E-01	0.872000E-01	0.305560E+01	-0.271000E-01	0.582100E+00	-0.109100E+00	0.796200E+00
21.600	0.125000E-01	0.741000E-01	0.306880E+01	-0.710000E-02	0.548200E+00	-0.418000E-01	0.790200E+00
22.400	0.106000E-01	0.650000E-01	0.307700E+01	-0.210000E-02	0.532200E+00	-0.560000E-02	0.822000E+00
22.600	0.101000E-01	0.629000E-01	0.307880E+01	0.380000E-02	0.529300E+00	0.180000E-02	0.831000E+00
22.800	0.970000E-02	0.609000E-01	0.308050E+01	0.520000E-02	0.526700E+00	0.850000E-02	0.838800E+00

23.000	0.930000E-02	0.589000E-01	0.308220E+01	0.650000E-02	0.524500E+00	0.148000E-01	0.844900E+00
23.200	0.890000E-02	0.571000E-01	0.308380E+01	0.760000E-02	0.522500E+00	0.205000E-01	0.848900E+00
23.800	0.770000E-02	0.518000E-01	0.308810E+01	0.101000E-01	0.518000E+00	0.357000E-01	0.849300E+00
24.000	0.730000E-02	0.502000E-01	0.308950E+01	0.107000E-01	0.516900E+00	0.402000E-01	0.846000E+00
24.200	0.700000E-02	0.487000E-01	0.309080E+01	0.112000E-01	0.516000E+00	0.444000E-01	0.841500E+00
24.400	0.660000E-02	0.472000E-01	0.309200E+01	0.116000E-01	0.515200E+00	0.484000E-01	0.836100E+00
24.600	0.630000E-02	0.457000E-01	0.309320E+01	0.120000E-01	0.514500E+00	0.523000E-01	0.830000E+00
24.800	0.600000E-02	0.443000E-01	0.309440E+01	0.123000E-01	0.514000E+00	0.561000E-01	0.823200E+00
25.000	0.570000E-02	0.430000E-01	0.309550E+01	0.125000E-01	0.513500E+00	0.597000E-01	0.815900E+00
25.200	0.530000E-02	0.416000E-01	0.309660E+01	0.127000E-01	0.513200E+00	0.633000E-01	0.808200E+00
25.400	0.500000E-02	0.404000E-01	0.309760E+01	0.129000E-01	0.512900E+00	0.668000E-01	0.800300E+00
25.600	0.480000E-02	0.392000E-01	0.309860E+01	0.130000E-01	0.512700E+00	0.703000E-01	0.792000E+00
25.800	0.450000E-02	0.380000E-01	0.309960E+01	0.130000E-01	0.512500E+00	0.738000E-01	0.783600E+00
26.000	0.420000E-02	0.369000E-01	0.310060E+01	0.131000E-01	0.512400E+00	0.773000E-01	0.775000E+00
26.200	0.400000E-02	0.358000E-01	0.310150E+01	0.131000E-01	0.512400E+00	0.809000E-01	0.766300E+00
26.400	0.370000E-02	0.348000E-01	0.310240E+01	0.131000E-01	0.512400E+00	0.844000E-01	0.757500E+00
26.600	0.350000E-02	0.337000E-01	0.310320E+01	0.130000E-01	0.512400E+00	0.879000E-01	0.748700E+00
26.800	0.320000E-02	0.328000E-01	0.310410E+01	0.130000E-01	0.512400E+00	0.916000E-01	0.739800E+00
27.000	0.300000E-02	0.318000E-01	0.310490E+01	0.129000E-01	0.512500E+00	0.954000E-01	0.730900E+00
27.200	0.280000E-02	0.309000E-01	0.310570E+01	0.128000E-01	0.512600E+00	0.993000E-01	0.721900E+00
27.400	0.260000E-02	0.300000E-01	0.310640E+01	0.128000E-01	0.512800E+00	0.103300E+00	0.712900E+00
27.600	0.240000E-02	0.292000E-01	0.310720E+01	0.126000E-01	0.512900E+00	0.107400E+00	0.704000E+00
27.800	0.220000E-02	0.284000E-01	0.310790E+01	0.125000E-01	0.513100E+00	0.111600E+00	0.695000E+00
28.000	0.200000E-02	0.276000E-01	0.310860E+01	0.124000E-01	0.513300E+00	0.115900E+00	0.686100E+00
28.400	0.170000E-02	0.261000E-01	0.311000E+01	0.121000E-01	0.513700E+00	0.124900E+00	0.668400E+00
29.000	0.120000E-02	0.240000E-01	0.311190E+01	0.117000E-01	0.514400E+00	0.139300E+00	0.642100E+00
29.200	0.110000E-02	0.234000E-01	0.311260E+01	0.116000E-01	0.514700E+00	0.144400E+00	0.633500E+00
29.400	0.900000E-03	0.227000E-01	0.311320E+01	0.114000E-01	0.515000E+00	0.149500E+00	0.625000E+00
29.600	0.800000E-03	0.221000E-01	0.311330E+01	0.113000E-01	0.515300E+00	0.154700E+00	0.616500E+00
29.800	0.700000E-03	0.215000E-01	0.311440E+01	0.111000E-01	0.515500E+00	0.160100E+00	0.608100E+00
30.000	0.600000E-03	0.210000E-01	0.311490E+01	0.110000E-01	0.515900E+00	0.165500E+00	0.599700E+00
30.600	0.200000E-03	0.194000E-01	0.311660E+01	0.105000E-01	0.516800E+00	0.182300E+00	0.575200E+00

Table 3: (3)¹Σ⁺-(1-7)¹Π transitions

R	3-1	3-2	3-3	3-4	3-5	3-6	3-7
4.400	0.395600E+00	-0.111100E+00	-0.610500E+00	0.478300E+00	-0.497900E+00	-0.171260E+01	0.218700E+00
4.600	0.380600E+00	-0.869000E-01	-0.682200E+00	0.545700E+00	-0.480200E+00	-0.175150E+01	0.170600E+00
4.800	0.352600E+00	-0.611000E-01	-0.766800E+00	0.627700E+00	-0.472600E+00	-0.176410E+01	0.135600E+00
5.000	0.314500E+00	-0.376000E-01	-0.857500E+00	0.715900E+00	-0.478000E+00	-0.175200E+01	0.109800E+00
5.200	0.271000E+00	-0.191000E-01	-0.949000E+00	0.801300E+00	-0.496500E+00	-0.171930E+01	0.909000E-01
5.400	0.228200E+00	-0.670000E-02	-0.103620E+01	0.875700E+00	-0.526000E+00	-0.167180E+01	0.782000E-01
5.600	0.191100E+00	-0.100000E-03	-0.111530E+01	0.933600E+00	-0.563800E+00	-0.161670E+01	0.717000E-01
5.800	0.163400E+00	0.180000E-02	-0.118370E+01	0.972000E+00	-0.607300E+00	-0.156030E+01	0.705000E-01
6.000	0.146900E+00	-0.700000E-03	-0.124060E+01	0.990300E+00	-0.654400E+00	-0.150810E+01	0.743000E-01
6.200	0.141700E+00	-0.200000E-02	-0.128590E+01	0.989700E+00	-0.703400E+00	-0.146290E+01	0.822000E-01
6.800	0.183800E+00	-0.970000E-02	-0.135470E+01	0.906700E+00	-0.848100E+00	-0.137870E+01	0.126900E+00
7.000	0.211900E+00	-0.980000E-02	-0.135400E+01	0.869000E+00	-0.892400E+00	-0.136550E+01	0.149000E+00
7.400	0.279800E+00	-0.370000E-02	-0.131680E+01	0.810500E+00	-0.970800E+00	-0.135250E+01	0.205600E+00
7.600	0.316700E+00	0.290000E-02	-0.128220E+01	0.796100E+00	-0.100430E+01	-0.135000E+01	0.241800E+00
7.800	0.353900E+00	0.120000E-01	-0.123920E+01	0.792700E+00	-0.103310E+01	-0.134890E+01	0.284000E+00
8.000	0.390200E+00	0.233000E-01	-0.118940E+01	0.800100E+00	-0.105750E+01	-0.134770E+01	0.331600E+00
8.200	0.424700E+00	0.364000E-01	-0.113470E+01	0.816700E+00	-0.107690E+01	-0.134560E+01	0.382900E+00
8.400	0.456700E+00	0.512000E-01	-0.107670E+01	0.840100E+00	-0.109170E+01	-0.134360E+01	0.441000E+00
8.600	0.485500E+00	0.668000E-01	-0.101690E+01	0.869200E+00	-0.110160E+01	-0.134020E+01	0.502000E+00
8.800	0.510800E+00	0.828000E-01	-0.956400E+00	0.902000E+00	-0.110690E+01	-0.133610E+01	0.565600E+00
9.000	0.532200E+00	0.984000E-01	-0.896200E+00	0.937000E+00	-0.110790E+01	-0.133140E+01	0.630700E+00
9.200	0.549700E+00	0.113200E+00	-0.837200E+00	0.972800E+00	-0.110470E+01	-0.132640E+01	0.696000E+00
9.400	0.563300E+00	0.126600E+00	-0.780100E+00	0.100850E+01	-0.109750E+01	-0.132120E+01	0.760200E+00
9.800	0.579800E+00	0.148000E+00	-0.672800E+00	0.107660E+01	-0.107100E+01	-0.131070E+01	0.881500E+00
10.000	0.583100E+00	0.155500E+00	-0.623000E+00	0.110820E+01	-0.105150E+01	-0.130520E+01	0.937400E+00
10.200	0.583600E+00	0.160900E+00	-0.575700E+00	0.113770E+01	-0.102740E+01	-0.129910E+01	0.989800E+00
10.400	0.581700E+00	0.164300E+00	-0.530700E+00	0.116530E+01	-0.998400E+00	-0.129190E+01	0.103870E+01
10.600	0.577600E+00	0.165800E+00	-0.487800E+00	0.119090E+01	-0.964000E+00	-0.128280E+01	0.108450E+01
10.800	0.571600E+00	0.165700E+00	-0.446500E+00	0.121480E+01	-0.924100E+00	-0.127110E+01	0.112740E+01
11.000	0.564200E+00	0.164400E+00	-0.406300E+00	0.123710E+01	-0.878200E+00	-0.125590E+01	0.116760E+01
11.200	0.555500E+00	0.162200E+00	-0.366700E+00	0.125810E+01	-0.826300E+00	-0.123610E+01	0.120540E+01
11.400	0.545700E+00	0.159300E+00	-0.327100E+00	0.127810E+01	-0.768300E+00	-0.121090E+01	0.124070E+01
11.600	0.535100E+00	0.156100E+00	-0.286600E+00	0.129760E+01	-0.704400E+00	-0.117910E+01	0.127340E+01
11.800	0.523700E+00	0.152900E+00	-0.244300E+00	0.131720E+01	-0.634500E+00	-0.113960E+01	0.130250E+01
12.000	0.511500E+00	0.150200E+00	-0.199000E+00	0.133770E+01	-0.558800E+00	-0.109100E+01	0.132700E+01
12.200	0.498700E+00	0.148200E+00	-0.149100E+00	0.136040E+01	-0.477100E+00	-0.103150E+01	0.134550E+01
12.400	0.484900E+00	0.147400E+00	-0.921000E-01	0.138710E+01	-0.388800E+00	-0.958600E+00	0.135550E+01
12.600	0.469900E+00	0.148400E+00	-0.248000E-01	0.142020E+01	-0.292900E+00	-0.868100E+00	0.135350E+01
12.800	0.453000E+00	0.151800E+00	0.575000E-01	0.146290E+01	-0.187000E+00	-0.753900E+00	0.133390E+01
13.000	0.432900E+00	0.158400E+00	0.161100E+00	0.151880E+01	-0.677000E-01	-0.606600E+00	0.128620E+01
13.200	0.407500E+00	0.168900E+00	0.292800E+00	0.158960E+01	0.694000E-01	-0.413600E+00	0.122220E+01
13.400	0.374400E+00	0.182700E+00	0.454000E+00	0.167010E+01	0.226500E+00	-0.165200E+00	0.122820E+01
13.600	0.332600E+00	0.197100E+00	0.629800E+00	0.174260E+01	0.396000E+00	0.130000E+00	0.132160E+01
13.800	0.287100E+00	0.207300E+00	0.786700E+00	0.178630E+01	0.558500E+00	0.432700E+00	0.143150E+01
14.000	0.246300E+00	0.210700E+00	0.897900E+00	0.179770E+01	0.696600E+00	0.699700E+00	0.150890E+01
14.200	0.215000E+00	0.208400E+00	0.961900E+00	0.178990E+01	0.807600E+00	0.917000E+00	0.154520E+01
14.400	0.193100E+00	0.202400E+00	0.990100E+00	0.177570E+01	0.897500E+00	0.109330E+01	0.155050E+01
14.600	0.178500E+00	0.194400E+00	0.994200E+00	0.176130E+01	0.972600E+00	0.124150E+01	0.153370E+01
14.800	0.169000E+00	0.185200E+00	0.982100E+00	0.174910E+01	0.103720E+01	0.137130E+01	0.150080E+01
15.000	0.163100E+00	0.175400E+00	0.958800E+00	0.173940E+01	0.109420E+01	0.148880E+01	0.145550E+01
15.200	0.159700E+00	0.165400E+00	0.927500E+00	0.173210E+01	0.114500E+01	0.159730E+01	0.140030E+01
15.400	0.157900E+00	0.155200E+00	0.890100E+00	0.172670E+01	0.119070E+01	0.169830E+01	0.133700E+01
15.600	0.157300E+00	0.145000E+00	0.848300E+00	0.172280E+01	0.123220E+01	0.179260E+01	0.126710E+01
15.800	0.157500E+00	0.135100E+00	0.803200E+00	0.172010E+01	0.126960E+01	0.188040E+01	0.119250E+01
16.200	0.159300E+00	0.115900E+00	0.706900E+00	0.171700E+01	0.133420E+01	0.203590E+01	0.103210E+01
16.400	0.161500E+00	0.106800E+00	0.657300E+00	0.171630E+01	0.136170E+01	0.210360E+01	0.949900E+00
16.600	0.160900E+00	0.981000E-01	0.607400E+00	0.171600E+01	0.138640E+01	0.216480E+01	0.868300E+00
16.800	0.163400E+00	0.898000E-01	0.557900E+00	0.171600E+01	0.140830E+01	0.221950E+01	0.787600E+00
17.000	0.164900E+00	0.821000E-01	0.509200E+00	0.171630E+01	0.142770E+01	0.226800E+01	0.709100E+00
17.200	0.166500E+00	0.747000E-01	0.461600E+00	0.171700E+01	0.144470E+01	0.231040E+01	0.633800E+00
17.400	0.168100E+00	0.678000E-01	0.415100E+00	0.171810E+01	0.145950E+01	0.234690E+01	0.562500E+00
17.600	0.170200E+00	0.612000E-01	0.369500E+00	0.171980E+01	0.147230E+01	0.237710E+01	0.496700E+00
17.800	0.173400E+00	0.547000E-01	0.323600E+00	0.172270E+01	0.148320E+01	0.239840E+01	0.439300E+00
18.000	0.181500E+00	0.472000E-01	0.270600E+00	0.172750E+01	0.149080E+01	0.239490E+01	0.403500E+00
18.600	0.175800E+00	0.379000E-01	0.241100E+00	0.292800E+00	0.175000E+00	0.272700E+00	0.619800E+00
19.000	0.158900E+00	0.377000E-01	0.232700E+00	0.230200E+00	0.131900E+00	0.302500E+00	0.633600E+00
19.200	0.152100E+00	0.372000E-01	0.226800E+00	0.213500E+00	0.122300E+00	0.298800E+00	0.643700E+00
19.400	0.145900E+00	0.365000E-01	0.220700E+00	0.200100E+00	0.115200E+00	0.291500E+00	0.655200E+00
19.800	0.134600E+00	0.350000E-01	0.208600E+00	0.179000E+00	0.104800E+00	0.273000E+00	0.683100E+00
20.000	0.129400E+00	0.342000E-01	0.202800E+00	0.170200E+00	0.100600E+00	0.263200E+00	0.700200E+00
20.400	0.119800E+00	0.325000E-01	0.191600E+00	0.154900E+00	0.933000E-01	0.243800E+00	0.742400E+00
20.600	0.115300E+00	0.317000E-01	0.186200E+00	0.148100E+00	0.901000E-01	0.234500E+00	0.768300E+00
21.600	0.959000E-01	0.276000E-01	0.162100E+00	0.120300E+00	0.763000E-01	0.193100E+00	0.962700E+00
22.400	0.833000E-01	0.245000E-01	0.145600E+00	0.103200E+00	0.673000E-01	0.166000E+00	0.119530E+01
22.600	0.805000E-01	0.238000E-01	0.141900E+00	0.995000E-01	0.652000E-01	0.160000E+00	0.125700E+01
22.800	0.778000E-01	0.231000E-01	0.138200E+00	0.959000E-01	0.633000E-01	0.154200E+00	0.131690E+01

23.000	0.752000E-01	0.224000E-01	0.134700E+00	0.926000E-01	0.614000E-01	0.148700E+00	0.137370E+01
23.200	0.727000E-01	0.217000E-01	0.131300E+00	0.894000E-01	0.595000E-01	0.143500E+00	0.142630E+01
23.800	0.659000E-01	0.198000E-01	0.121700E+00	0.806000E-01	0.544000E-01	0.129100E+00	0.155720E+01
24.000	0.638000E-01	0.192000E-01	0.118800E+00	0.779000E-01	0.528000E-01	0.124700E+00	0.159280E+01
24.200	0.618000E-01	0.187000E-01	0.115900E+00	0.754000E-01	0.513000E-01	0.120500E+00	0.162510E+01
24.400	0.599000E-01	0.181000E-01	0.113100E+00	0.729000E-01	0.498000E-01	0.116400E+00	0.165450E+01
24.600	0.580000E-01	0.175000E-01	0.110400E+00	0.706000E-01	0.484000E-01	0.112500E+00	0.168160E+01
24.800	0.562000E-01	0.170000E-01	0.107800E+00	0.684000E-01	0.470000E-01	0.108700E+00	0.170670E+01
25.000	0.545000E-01	0.165000E-01	0.105200E+00	0.662000E-01	0.457000E-01	0.105100E+00	0.173010E+01
25.200	0.529000E-01	0.160000E-01	0.102800E+00	0.642000E-01	0.444000E-01	0.101600E+00	0.175220E+01
25.400	0.513000E-01	0.155000E-01	0.100400E+00	0.622000E-01	0.432000E-01	0.983000E-01	0.177310E+01
25.600	0.498000E-01	0.151000E-01	0.981000E-01	0.603000E-01	0.420000E-01	0.950000E-01	0.179290E+01
25.800	0.483000E-01	0.146000E-01	0.959000E-01	0.585000E-01	0.408000E-01	0.919000E-01	0.181190E+01
26.000	0.469000E-01	0.142000E-01	0.937000E-01	0.568000E-01	0.397000E-01	0.888000E-01	0.183000E+01
26.200	0.455000E-01	0.138000E-01	0.916000E-01	0.551000E-01	0.386000E-01	0.859000E-01	0.184750E+01
26.400	0.442000E-01	0.134000E-01	0.895000E-01	0.535000E-01	0.376000E-01	0.830000E-01	0.186440E+01
26.600	0.430000E-01	0.130000E-01	0.876000E-01	0.520000E-01	0.365000E-01	0.802000E-01	0.188070E+01
26.800	0.417000E-01	0.126000E-01	0.856000E-01	0.505000E-01	0.356000E-01	0.774000E-01	0.189660E+01
27.000	0.406000E-01	0.122000E-01	0.838000E-01	0.491000E-01	0.346000E-01	0.748000E-01	0.191200E+01
27.200	0.394000E-01	0.119000E-01	0.820000E-01	0.477000E-01	0.337000E-01	0.722000E-01	0.192690E+01
27.400	0.383000E-01	0.115000E-01	0.802000E-01	0.464000E-01	0.328000E-01	0.697000E-01	0.194150E+01
27.600	0.373000E-01	0.112000E-01	0.785000E-01	0.451000E-01	0.319000E-01	0.672000E-01	0.195560E+01
27.800	0.363000E-01	0.109000E-01	0.768000E-01	0.439000E-01	0.311000E-01	0.648000E-01	0.196940E+01
28.000	0.353000E-01	0.106000E-01	0.752000E-01	0.427000E-01	0.303000E-01	0.624000E-01	0.198290E+01
28.400	0.334000E-01	0.100000E-01	0.721000E-01	0.404000E-01	0.288000E-01	0.578000E-01	0.200880E+01
29.000	0.309000E-01	0.910000E-02	0.678000E-01	0.374000E-01	0.267000E-01	0.512000E-01	0.204550E+01
29.200	0.301000E-01	0.890000E-02	0.665000E-01	0.364000E-01	0.260000E-01	0.491000E-01	0.205710E+01
29.400	0.293000E-01	0.860000E-02	0.651000E-01	0.355000E-01	0.253000E-01	0.470000E-01	0.206850E+01
29.600	0.285000E-01	0.840000E-02	0.638000E-01	0.346000E-01	0.247000E-01	0.450000E-01	0.207970E+01
29.800	0.278000E-01	0.820000E-02	0.626000E-01	0.337000E-01	0.241000E-01	0.430000E-01	0.209050E+01
30.000	0.271000E-01	0.790000E-02	0.614000E-01	0.329000E-01	0.235000E-01	0.410000E-01	0.210110E+01
30.600	0.251000E-01	0.730000E-02	0.579000E-01	0.305000E-01	0.219000E-01	0.353000E-01	0.213160E+01

Table 4: $(4)^1\Sigma^+-(1-7)^1\Pi$ transitions

R	4-1	4-2	4-3	4-4	4-5	4-6	4-7
4.400	0.289410E+01	-0.615400E+00	-0.219550E+01	0.497920E+01	-0.257330E+01	0.285100E+00	0.601800E+00
4.600	0.299310E+01	-0.448500E+00	-0.253780E+01	0.482190E+01	-0.245060E+01	0.270000E+00	0.561700E+00
4.800	0.308220E+01	-0.281100E+00	-0.286410E+01	0.467270E+01	-0.230670E+01	0.264000E+00	0.519000E+00
5.000	0.316360E+01	-0.115600E+00	-0.314840E+01	0.455330E+01	-0.215010E+01	0.264500E+00	0.474600E+00
5.200	0.323800E+01	-0.457000E-01	-0.337100E+01	0.448320E+01	-0.198690E+01	0.268000E+00	0.429600E+00
5.400	0.330500E+01	-0.200600E+00	-0.352370E+01	0.447260E+01	-0.182260E+01	0.272500E+00	0.385600E+00
5.600	0.336420E+01	-0.347800E+00	-0.360670E+01	0.452080E+01	-0.166320E+01	0.277000E+00	0.344500E+00
5.800	0.341530E+01	-0.486700E+00	-0.362350E+01	0.462060E+01	-0.151470E+01	0.281400E+00	0.308700E+00
6.000	0.345810E+01	-0.617500E+00	-0.357760E+01	0.476250E+01	-0.138170E+01	0.285800E+00	0.280200E+00
6.200	0.349240E+01	-0.741100E+00	-0.347220E+01	0.493700E+01	-0.126680E+01	0.290300E+00	0.260300E+00
6.800	0.354560E+01	-0.107850E+01	-0.285980E+01	0.554910E+01	-0.103360E+01	0.297700E+00	0.259800E+00
7.000	0.354700E+01	-0.118240E+01	-0.259850E+01	0.574520E+01	-0.992100E+00	0.294000E+00	0.279100E+00
7.400	0.352530E+01	-0.137590E+01	-0.211610E+01	0.608710E+01	-0.976300E+00	0.250900E+00	0.340700E+00
7.600	0.349220E+01	-0.145580E+01	-0.197790E+01	0.623950E+01	-0.103140E+01	0.159200E+00	0.369500E+00
7.800	0.314270E+01	-0.136050E+01	-0.223800E+01	0.606830E+01	-0.129070E+01	0.370200E+00	0.308700E+00
8.000	0.101050E+01	-0.415000E+00	-0.213570E+01	0.279510E+01	-0.111810E+01	0.131930E+01	0.110400E+00
8.200	0.532100E+00	-0.251900E+00	-0.194560E+01	0.202690E+01	-0.868500E+00	0.139820E+01	0.175200E+00
8.400	0.351900E+00	-0.219300E+00	-0.185240E+01	0.176870E+01	-0.693800E+00	0.141790E+01	0.192300E+00
8.600	0.243000E+00	-0.212500E+00	-0.179060E+01	0.163020E+01	-0.552000E+00	0.142400E+01	0.198000E+00
8.800	0.162900E+00	-0.213000E+00	-0.174460E+01	0.153830E+01	-0.432700E+00	0.142560E+01	0.197900E+00
9.000	0.988000E-01	-0.215300E+00	-0.170830E+01	0.147030E+01	-0.331400E+00	0.142500E+01	0.194000E+00
9.200	0.454000E-01	-0.218000E+00	-0.167880E+01	0.141730E+01	-0.245200E+00	0.142290E+01	0.187200E+00
9.400	-0.300000E-03	-0.220600E+00	-0.165430E+01	0.137490E+01	-0.171800E+00	0.141970E+01	0.178200E+00
9.800	-0.700000E-01	-0.226000E+00	-0.161600E+01	0.131350E+01	-0.559000E-01	0.141100E+01	0.155700E+00
10.000	-0.965000E-01	-0.229200E+00	-0.160080E+01	0.129180E+01	-0.980000E-02	0.140590E+01	0.143200E+00
10.200	-0.118000E+00	-0.232800E+00	-0.158750E+01	0.127490E+01	0.307000E-01	0.140050E+01	0.130600E+00
10.400	-0.134800E+00	-0.236700E+00	-0.157580E+01	0.126210E+01	0.671000E-01	0.139530E+01	0.118000E+00
10.600	-0.147400E+00	-0.241000E+00	-0.156540E+01	0.125260E+01	0.100800E+00	0.139040E+01	0.105700E+00
10.800	-0.156400E+00	-0.245400E+00	-0.155610E+01	0.124570E+01	0.133200E+00	0.138620E+01	0.939000E-01
11.000	-0.162300E+00	-0.249600E+00	-0.154760E+01	0.124080E+01	0.165500E+00	0.138320E+01	0.828000E-01
11.200	-0.165600E+00	-0.253300E+00	-0.153960E+01	0.123700E+01	0.198600E+00	0.138180E+01	0.720000E-01
11.400	-0.166900E+00	-0.256400E+00	-0.153200E+01	0.123370E+01	0.233500E+00	0.138260E+01	0.621000E-01
11.600	-0.166800E+00	-0.258500E+00	-0.152450E+01	0.122970E+01	0.270700E+00	0.138600E+01	0.530000E-01
11.800	-0.166000E+00	-0.259500E+00	-0.151690E+01	0.122390E+01	0.310800E+00	0.139310E+01	0.458000E-01
12.000	-0.165200E+00	-0.259000E+00	-0.150860E+01	0.121470E+01	0.353900E+00	0.140450E+01	0.418000E-01
12.200	-0.165200E+00	-0.256900E+00	-0.149940E+01	0.120010E+01	0.399700E+00	0.142140E+01	0.438000E-01
12.400	-0.167000E+00	-0.253000E+00	-0.148840E+01	0.117740E+01	0.447700E+00	0.144480E+01	0.587000E-01
12.600	-0.171600E+00	-0.246900E+00	-0.147460E+01	0.114250E+01	0.496600E+00	0.147580E+01	0.100600E+00
12.800	-0.180700E+00	-0.238100E+00	-0.145610E+01	0.108930E+01	0.544100E+00	0.151510E+01	0.200900E+00
13.000	-0.196100E+00	-0.225800E+00	-0.142900E+01	0.100860E+01	0.586100E+00	0.156180E+01	0.409400E+00
13.200	-0.219600E+00	-0.208800E+00	-0.138640E+01	0.887700E+00	0.615300E+00	0.161030E+01	0.687400E+00
13.400	-0.251200E+00	-0.185700E+00	-0.131790E+01	0.714800E+00	0.620000E+00	0.164670E+01	0.825300E+00
13.600	-0.286500E+00	-0.156900E+00	-0.121490E+01	0.494200E+00	0.588700E+00	0.164860E+01	0.775900E+00
13.800	-0.316500E+00	-0.126400E+00	-0.108530E+01	0.261300E+00	0.522000E+00	0.160210E+01	0.621900E+00
14.000	-0.335200E+00	-0.100000E+00	-0.953400E+00	0.614000E-01	0.436900E+00	0.151970E+01	0.440700E+00
14.200	-0.343000E+00	-0.803000E-01	-0.838700E+00	-0.856000E-01	0.352000E+00	0.142520E+01	0.275200E+00
14.400	-0.343400E+00	-0.668000E-01	-0.746200E+00	-0.185000E+00	0.276100E+00	0.133340E+01	0.137700E+00
14.600	-0.339200E+00	-0.580000E-01	-0.673100E+00	-0.249200E+00	0.211100E+00	0.124960E+01	0.257000E-01
14.800	-0.332500E+00	-0.523000E-01	-0.614900E+00	-0.289200E+00	0.156400E+00	0.117400E+01	0.660000E-01
15.000	-0.324200E+00	-0.488000E-01	-0.567800E+00	-0.312500E+00	0.110700E+00	0.110560E+01	0.142200E+00
15.200	-0.315100E+00	-0.467000E-01	-0.528900E+00	-0.324500E+00	0.727000E-01	0.104340E+01	0.206500E+00
15.400	-0.305400E+00	-0.455000E-01	-0.496100E+00	-0.328700E+00	0.412000E-01	0.986200E+00	0.261300E+00
15.600	-0.295400E+00	-0.448000E-01	-0.468000E+00	-0.327300E+00	0.153000E-01	0.933400E+00	0.308500E+00
15.800	-0.285300E+00	-0.446000E-01	-0.443500E+00	-0.322000E+00	0.590000E-02	0.884200E+00	0.347700E+00
16.200	-0.265200E+00	-0.446000E-01	-0.402700E+00	-0.303900E+00	-0.360000E-01	0.796600E+00	0.414200E+00
16.400	-0.255200E+00	-0.447000E-01	-0.385500E+00	-0.292300E+00	-0.460000E-01	0.757500E+00	0.441200E+00
16.600	-0.245500E+00	-0.448000E-01	-0.369800E+00	-0.279500E+00	-0.533000E-01	0.721500E+01	0.464800E+00
16.800	-0.235800E+00	-0.449000E-01	-0.355600E+00	-0.265500E+00	-0.578000E-01	0.689100E+00	0.485200E+00
17.000	-0.226400E+00	-0.449000E-01	-0.342600E+00	-0.250400E+00	-0.596000E-01	0.660400E+00	0.503000E+00
17.200	-0.217000E+00	-0.449000E-01	-0.330800E+00	-0.233600E+00	-0.586000E-01	0.636300E+00	0.518400E+00
17.400	-0.207700E+00	-0.449000E-01	-0.320300E+00	-0.214000E+00	-0.538000E-01	0.618500E+00	0.531400E+00
17.600	-0.198000E+00	-0.449000E-01	-0.311400E+00	-0.188800E+00	-0.429000E-01	0.610900E+00	0.541900E+00
17.800	-0.187200E+00	-0.452000E-01	-0.305200E+00	-0.149600E+00	0.188000E-01	0.625300E+00	0.548600E+00
18.000	-0.171100E+00	-0.468000E-01	-0.306800E+00	-0.564000E-01	0.531000E-01	0.717800E+00	0.543800E+00
18.600	-0.152200E+00	-0.403000E-01	-0.209200E+00	-0.170310E+01	0.149630E+01	0.253780E+01	0.147800E+00
19.000	-0.153700E+00	-0.320000E-01	-0.143700E+00	-0.171380E+01	0.150260E+01	0.256160E+01	0.715000E-01
19.200	-0.152000E+00	-0.287000E-01	-0.116200E+00	-0.171690E+01	0.150220E+01	0.257370E+01	0.333000E-01
19.400	-0.149300E+00	-0.257000E-01	-0.911000E-01	-0.171950E+01	0.150010E+01	0.258540E+01	-0.170000E-02
19.800	-0.141000E+00	-0.205000E-01	-0.470000E-01	-0.172400E+01	0.149140E+01	0.260800E+01	-0.650000E-01
20.000	-0.135300E+00	-0.183000E-01	-0.277000E-01	-0.172580E+01	0.148470E+01	0.261830E+01	-0.921000E-01
20.400	-0.119900E+00	-0.143000E-01	-0.600000E-02	-0.172790E+01	0.146680E+01	0.263720E+01	-0.137300E+00
20.600	-0.109800E+00	-0.126000E-01	0.205000E-01	-0.172760E+01	0.145540E+01	0.264580E+01	-0.155200E+00
21.600	0.220000E-01	-0.510000E-02	0.731000E-01	-0.169670E+01	0.136860E+01	0.267730E+01	-0.190600E+00
22.400	0.129100E+00	-0.800000E-03	0.930000E-01	-0.158170E+01	0.124800E+01	0.267580E+01	-0.147800E+00
22.600	0.185300E+00	0.230000E-02	0.949000E-01	-0.152790E+01	0.120750E+01	0.266760E+01	-0.128700E+00
22.800	0.250800E+00	0.400000E-02	0.954000E-01	-0.145940E+01	0.116190E+01	0.265460E+01	-0.107600E+00

23.000	0.326300E+00	0.590000E-02	0.947000E-01	-0.137440E+01	0.111080E+01	0.263540E+01	-0.856000E-01
23.200	0.411700E+00	0.780000E-02	0.926000E-01	-0.127130E+01	0.105430E+01	0.260900E+01	-0.636000E-01
23.800	0.715400E+00	0.139000E-01	0.798000E-01	-0.857200E+00	0.856800E+00	0.247750E+01	-0.630000E-02
24.000	0.823700E+00	0.158000E-01	0.741000E-01	-0.693900E+00	0.786300E+00	0.241670E+01	0.800000E-02
24.200	0.929800E+00	0.176000E-01	0.679000E-01	-0.526800E+00	0.716000E+00	0.234890E+01	0.197000E-01
24.400	0.103060E+01	0.192000E-01	0.616000E-01	-0.361700E+00	0.648000E+00	0.227640E+01	0.287000E-01
24.600	0.112370E+01	0.205000E-01	0.556000E-01	-0.203600E+00	0.583800E+00	0.220180E+01	0.353000E-01
24.800	0.120780E+01	0.216000E-01	0.499000E-01	-0.561000E-01	0.524500E+00	0.212710E+01	0.399000E-01
25.000	0.128250E+01	0.225000E-01	0.447000E-01	0.786000E-01	0.470600E+00	0.205390E+01	0.429000E-01
25.200	0.134800E+01	0.232000E-01	0.400000E-01	0.199800E+00	0.422200E+00	0.198340E+01	0.445000E-01
25.400	0.140490E+01	0.236000E-01	0.359000E-01	0.307500E+00	0.379100E+00	0.191620E+01	0.452000E-01
25.600	0.145410E+01	0.239000E-01	0.322000E-01	0.402500E+00	0.340800E+00	0.185280E+01	0.452000E-01
25.800	0.149660E+01	0.241000E-01	0.290000E-01	0.485900E+00	0.306900E+00	0.179310E+01	0.446000E-01
26.000	0.153320E+01	0.241000E-01	0.263000E-01	0.559000E+00	0.277000E+00	0.173710E+01	0.438000E-01
26.200	0.156480E+01	0.241000E-01	0.238000E-01	0.622900E+00	0.250500E+00	0.168450E+01	0.427000E-01
26.400	0.159210E+01	0.239000E-01	0.217000E-01	0.678800E+00	0.227200E+00	0.163510E+01	0.414000E-01
26.600	0.161580E+01	0.238000E-01	0.199000E-01	0.727700E+00	0.206400E+00	0.158860E+01	0.401000E-01
26.800	0.163630E+01	0.235000E-01	0.184000E-01	0.770500E+00	0.188100E+00	0.154470E+01	0.389000E-01
27.000	0.165420E+01	0.233000E-01	0.170000E-01	0.808200E+00	0.171700E+00	0.150320E+01	0.375000E-01
27.200	0.166990E+01	0.230000E-01	0.158000E-01	0.841200E+00	0.157100E+00	0.146370E+01	0.363000E-01
27.400	0.168360E+01	0.227000E-01	0.148000E-01	0.870300E+00	0.144100E+00	0.142610E+01	0.350000E-01
27.600	0.169560E+01	0.224000E-01	0.139000E-01	0.896000E+00	0.132400E+00	0.139030E+01	0.338000E-01
27.800	0.170620E+01	0.220000E-01	0.131000E-01	0.918700E+00	0.121900E+00	0.135590E+01	0.327000E-01
28.000	0.171560E+01	0.217000E-01	0.124000E-01	0.938900E+00	0.112500E+00	0.132300E+01	0.316000E-01
28.400	0.173130E+01	0.209000E-01	0.112000E-01	0.972700E+00	0.962000E-01	0.126070E+01	0.297000E-01
29.000	0.174890E+01	0.199000E-01	0.990000E-02	0.101090E+01	0.771000E-01	0.117480E+01	0.272000E-01
29.200	0.175370E+01	0.195000E-01	0.960000E-02	0.102110E+01	0.718000E-01	0.114790E+01	0.264000E-01
29.400	0.175790E+01	0.192000E-01	0.930000E-02	0.103020E+01	0.670000E-01	0.112170E+01	0.257000E-01
29.600	0.176170E+01	0.188000E-01	0.900000E-02	0.103850E+01	0.626000E-01	0.109610E+01	0.251000E-01
29.800	0.176500E+01	0.185000E-01	0.870000E-02	0.104580E+01	0.585000E-01	0.107120E+01	0.245000E-01
30.000	0.176830E+01	0.181000E-01	0.850000E-02	0.105260E+01	0.548000E-01	0.104680E+01	0.239000E-01
30.600	0.177600E+01	0.172000E-01	0.780000E-02	0.106910E+01	0.452000E-01	0.977000E+00	0.224000E-01

Table 5: $(1)^3\Sigma^+-(1-7)^3\Pi$ transitions

	R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
1	4.400	0.137700E+00	0.220750E+01	-0.226380E+01	-0.111120E+01	0.240000E-01	-0.319500E+00	0.375800E+00
2	4.600	0.176200E+00	0.226430E+01	-0.194390E+01	-0.157890E+01	0.564000E-01	-0.331900E+00	0.364200E+00
3	4.800	0.211500E+00	0.231800E+01	0.489000E-01	-0.248120E+01	0.147200E+00	-0.336400E+00	0.352100E+00
4	5.000	0.243900E+00	0.236710E+01	0.483900E+00	-0.240610E+01	0.253200E+00	-0.333600E+00	0.339200E+00
5	5.200	0.273500E+00	0.241080E+01	0.583900E+00	-0.234900E+01	0.381800E+00	-0.323200E+00	0.324900E+00
6	5.400	0.300600E+00	0.244920E+01	0.621200E+00	-0.229280E+01	0.542100E+00	-0.303800E+00	0.308800E+00
7	5.600	0.325600E+00	0.248250E+01	0.637200E+00	-0.222120E+01	0.739000E+00	-0.273000E+00	0.290900E+00
8	5.800	0.349000E+00	0.251140E+01	0.644200E+00	-0.212490E+01	0.959400E+00	-0.228300E+00	0.271400E+00
9	6.000	0.371200E+00	0.253640E+01	0.647600E+00	-0.201350E+01	0.116310E+01	-0.170100E+00	0.250600E+00
10	6.200	0.392800E+00	0.255840E+01	0.650300E+00	-0.191730E+01	0.130580E+01	-0.105800E+00	0.229700E+00
11	6.800	0.458200E+00	0.261220E+01	0.676000E+00	-0.188860E+01	0.130010E+01	-0.192000E-01	0.175200E+00
12	7.000	0.481500E+00	0.262800E+01	0.698200E+00	-0.193930E+01	0.119580E+01	-0.352000E-01	0.161900E+00
13	7.400	0.532500E+00	0.265890E+01	0.787000E+00	-0.202530E+01	0.932300E+00	-0.812000E-01	0.143200E+00
14	7.600	0.560700E+00	0.267460E+01	0.870400E+00	-0.203270E+01	0.804000E+00	-0.101100E+00	0.137300E+00
15	7.800	0.591300E+00	0.269090E+01	0.100130E+01	-0.199840E+01	0.690500E+00	-0.117200E+00	0.133500E+00
16	8.000	0.624300E+00	0.270770E+01	0.120750E+01	-0.189460E+01	0.594400E+00	-0.129800E+00	0.131100E+00
17	8.200	0.660300E+00	0.272520E+01	0.150890E+01	-0.166660E+01	0.514700E+00	-0.139200E+00	0.130000E+00
18	8.400	0.699300E+00	0.274340E+01	0.183590E+01	-0.128620E+01	0.449600E+00	-0.146100E+00	0.130300E+00
19	8.600	0.741800E+00	0.276190E+01	0.204520E+01	-0.885400E+00	0.396500E+00	-0.150900E+00	0.131300E+00
20	8.800	0.787900E+00	0.278070E+01	0.212830E+01	-0.596000E+00	0.353200E+00	-0.154000E+00	0.132900E+00
21	9.000	0.838100E+00	0.279940E+01	0.214800E+01	-0.412100E+00	0.318000E+00	-0.155500E+00	0.135000E+00
22	9.200	0.892300E+00	0.281760E+01	0.213990E+01	-0.294500E+00	0.289300E+00	-0.155700E+00	0.137100E+00
23	9.400	0.950900E+00	0.283480E+01	0.211830E+01	-0.216100E+00	0.266000E+00	-0.154800E+00	0.138200E+00
24	9.800	0.108150E+01	0.286440E+01	0.205470E+01	-0.122300E+00	0.232000E+00	-0.150100E+00	0.124700E+00
25	10.000	0.115320E+01	0.287590E+01	0.201650E+01	-0.932000E-01	0.220000E+00	-0.146600E+00	0.132600E+00
26	10.200	0.122900E+01	0.288470E+01	0.197510E+01	-0.710000E-01	0.210700E+00	-0.142500E+00	0.136200E+00
27	10.400	0.130830E+01	0.289040E+01	0.193100E+01	-0.537000E-01	0.203700E+00	-0.138200E+00	0.138600E+00
28	10.600	0.139050E+01	0.289310E+01	0.188430E+01	-0.399000E-01	0.198500E+00	-0.133900E+00	0.139900E+00
29	10.800	0.147470E+01	0.289280E+01	0.183510E+01	-0.285000E-01	0.194900E+00	-0.130100E+00	0.139900E+00
30	11.000	0.156000E+01	0.288980E+01	0.178340E+01	-0.190000E-01	0.192800E+00	-0.128000E+00	0.137800E+00
31	11.200	0.164540E+01	0.288440E+01	0.172920E+01	-0.110000E-01	0.191800E+00	-0.129200E+00	0.131800E+00
32	11.400	0.172970E+01	0.287740E+01	0.167210E+01	-0.400000E-02	0.192000E+00	-0.136700E+00	0.118100E+00
33	11.600	0.181200E+01	0.286930E+01	0.161210E+01	-0.220000E-02	0.193300E+00	-0.151100E+00	0.904000E-01
34	11.800	0.189130E+01	0.286090E+01	0.154900E+01	0.780000E-02	0.195400E+00	-0.162000E+00	0.547000E-01
35	12.000	0.196690E+01	0.285270E+01	0.148280E+01	0.130000E-01	0.198300E+00	-0.162000E+00	0.321000E-01
36	12.200	0.203830E+01	0.284520E+01	0.141340E+01	0.180000E-01	0.201900E+00	-0.156900E+00	0.245000E-01
37	12.400	0.210500E+01	0.283860E+01	0.134110E+01	0.230000E-01	0.205800E+00	-0.149900E+00	0.252000E-01
38	12.600	0.216700E+01	0.283310E+01	0.126630E+01	0.279000E-01	0.209900E+00	-0.141600E+00	0.304000E-01
39	12.800	0.222430E+01	0.282840E+01	0.118950E+01	0.329000E-01	0.213900E+00	-0.132100E+00	0.380000E-01
40	13.000	0.227680E+01	0.282440E+01	0.111170E+01	0.381000E-01	0.217700E+00	-0.121400E+00	0.471000E-01
41	13.200	0.232490E+01	0.282070E+01	0.103370E+01	0.434000E-01	0.221000E+00	-0.109300E+00	0.568000E-01
42	13.400	0.236890E+01	0.281690E+01	0.956700E+00	0.489000E-01	0.223800E+00	-0.959000E-01	0.663000E-01
43	13.600	0.240890E+01	0.281270E+01	0.881700E+00	0.546000E-01	0.226100E+00	-0.815000E-01	0.744000E-01
44	13.800	0.244540E+01	0.280790E+01	0.809600E+00	0.605000E-01	0.227800E+00	-0.671000E-01	0.805000E-01
45	14.000	0.247860E+01	0.280240E+01	0.741300E+00	0.665000E-01	0.228900E+00	-0.535000E-01	0.842000E-01
46	14.200	0.250890E+01	0.279620E+01	0.677400E+00	0.727000E-01	0.229600E+00	-0.414000E-01	0.859000E-01
47	14.400	0.253650E+01	0.278940E+01	0.618100E+00	0.790000E-01	0.229700E+00	-0.311000E-01	0.859000E-01
48	14.600	0.256180E+01	0.278200E+01	0.563700E+00	0.853000E-01	0.229500E+00	-0.225000E-01	0.848000E-01
49	14.800	0.258490E+01	0.277410E+01	0.514200E+00	0.918000E-01	0.228800E+00	-0.153000E-01	0.831000E-01
50	15.000	0.260600E+01	0.276600E+01	0.469300E+00	0.983000E-01	0.227700E+00	-0.950000E-02	0.811000E-01
51	15.200	0.262550E+01	0.275770E+01	0.428900E+00	0.104800E+00	0.226300E+00	-0.460000E-02	0.788000E-01
52	15.400	0.264340E+01	0.274940E+01	0.392700E+00	0.111400E+00	0.224600E+00	-0.600000E-03	0.765000E-01
53	15.600	0.265990E+01	0.274110E+01	0.360200E+00	0.118000E+00	0.222500E+00	0.260000E-02	0.741000E-01
54	15.800	0.267510E+01	0.273300E+01	0.331200E+00	0.124500E+00	0.220000E+00	0.530000E-02	0.717000E-01
55	16.200	0.270240E+01	0.271740E+01	0.282100E+00	0.137700E+00	0.214200E+00	0.940000E-02	0.670000E-01
56	16.400	0.271460E+01	0.271000E+01	0.261400E+00	0.144200E+00	0.210800E+00	0.109000E-01	0.647000E-01
57	16.600	0.272600E+01	0.270280E+01	0.242800E+00	0.150800E+00	0.207000E+00	0.121000E-01	0.625000E-01
58	16.800	0.273670E+01	0.269590E+01	0.226200E+00	0.157300E+00	0.202800E+00	0.131000E-01	0.603000E-01
59	17.000	0.274670E+01	0.268930E+01	0.211200E+00	0.163800E+00	0.198300E+00	0.139000E-01	0.580000E-01
60	17.200	0.275610E+01	0.268300E+01	0.197700E+00	0.170300E+00	0.193400E+00	0.146000E-01	0.557000E-01
	17.400	0.276490E+01	0.267690E+01	0.185600E+00	0.176800E+00	0.188000E+00	0.151000E-01	0.534000E-01
	17.600	0.277320E+01	0.267120E+01	0.174600E+00	0.183100E+00	0.182300E+00	0.155000E-01	0.511000E-01
	17.800	0.278100E+01	0.266560E+01	0.164600E+00	0.189400E+00	0.176200E+00	0.158000E-01	0.488000E-01
	18.000	0.278840E+01	0.266030E+01	0.155600E+00	0.195500E+00	0.169800E+00	0.160000E-01	0.465000E-01
	18.600	0.280840E+01	0.264580E+01	0.132900E+00	0.212400E+00	0.148800E+00	0.163000E-01	0.397000E-01
	19.000	0.282010E+01	0.263710E+01	0.120700E+00	0.222100E+00	0.134000E+00	0.164000E-01	0.353000E-01
	19.200	0.282560E+01	0.263300E+01	0.115300E+00	0.226400E+00	0.126700E+00	0.164000E-01	0.331000E-01
	19.400	0.283080E+01	0.262910E+01	0.110300E+00	0.230300E+00	0.119500E+00	0.165000E-01	0.310000E-01
	19.800	0.284050E+01	0.262170E+01	0.101300E+00	0.236800E+00	0.105700E+00	0.165000E-01	0.275000E-01
	20.000	0.284500E+01	0.261830E+01	0.973000E-01	0.239500E+00	0.993000E-01	0.165000E-01	0.259000E-01
	20.400	0.285350E+01	0.261170E+01	0.901000E-01	0.243900E+00	0.873000E-01	0.165000E-01	0.230000E-01
	20.600	0.285750E+01	0.260870E+01	0.868000E-01	0.245700E+00	0.819000E-01	0.166000E-01	0.218000E-01
	21.600	0.287520E+01	0.259480E+01	0.730000E-01	0.251300E+00	0.599000E-01	0.171000E-01	0.169000E-01
	22.400	0.288710E+01	0.258540E+01	0.643000E-01	0.253300E+00	0.476000E-01	0.176000E-01	0.137000E-01
	22.600	0.288980E+01	0.258320E+01	0.623000E-01	0.253700E+00	0.451000E-01	0.177000E-01	0.128000E-01
	22.800	0.289240E+01	0.258110E+01	0.605000E-01	0.253900E+00	0.427000E-01	0.178000E-01	0.120000E-01

23.000	0.289490E+01	0.257910E+01	0.587000E-01	0.254200E+00	0.406000E-01	0.180000E-01	0.112000E-01
23.200	0.289730E+01	0.257720E+01	0.570000E-01	0.254300E+00	0.386000E-01	0.181000E-01	0.103000E-01
23.800	0.290420E+01	0.257160E+01	0.523000E-01	0.254700E+00	0.335000E-01	0.185000E-01	0.790000E-02
24.000	0.290630E+01	0.256990E+01	0.509000E-01	0.254800E+00	0.321000E-01	0.186000E-01	0.710000E-02
24.200	0.290830E+01	0.256820E+01	0.495000E-01	0.254800E+00	0.307000E-01	0.188000E-01	0.620000E-02
24.400	0.291030E+01	0.256660E+01	0.481000E-01	0.254900E+00	0.295000E-01	0.189000E-01	0.560000E-02
24.600	0.291220E+01	0.256510E+01	0.468000E-01	0.254900E+00	0.283000E-01	0.190000E-01	0.510000E-02
24.800	0.291410E+01	0.256350E+01	0.456000E-01	0.254900E+00	0.273000E-01	0.192000E-01	0.460000E-02
25.000	0.291590E+01	0.256210E+01	0.443000E-01	0.254900E+00	0.262000E-01	0.193000E-01	0.410000E-02
25.200	0.291760E+01	0.256060E+01	0.432000E-01	0.254900E+00	0.253000E-01	0.194000E-01	0.370000E-02
25.400	0.291930E+01	0.255920E+01	0.420000E-01	0.254900E+00	0.244000E-01	0.196000E-01	0.340000E-02
25.600	0.292100E+01	0.255780E+01	0.409000E-01	0.254900E+00	0.236000E-01	0.197000E-01	0.300000E-02
25.800	0.292260E+01	0.255600E+01	0.398000E-01	0.254900E+00	0.228000E-01	0.199000E-01	0.270000E-02
26.000	0.292410E+01	0.255520E+01	0.388000E-01	0.254900E+00	0.221000E-01	0.200000E-01	0.250000E-02
26.200	0.292560E+01	0.255410E+01	0.378000E-01	0.254900E+00	0.214000E-01	0.202000E-01	0.230000E-02
26.400	0.292710E+01	0.255290E+01	0.368000E-01	0.254900E+00	0.207000E-01	0.203000E-01	0.210000E-02
26.600	0.292850E+01	0.255170E+01	0.358000E-01	0.254800E+00	0.201000E-01	0.204000E-01	0.190000E-02
26.800	0.292980E+01	0.255060E+01	0.349000E-01	0.254800E+00	0.195000E-01	0.206000E-01	0.170000E-02
27.000	0.293120E+01	0.254950E+01	0.340000E-01	0.254800E+00	0.189000E-01	0.207000E-01	0.160000E-02
27.200	0.293250E+01	0.254840E+01	0.331000E-01	0.254800E+00	0.183000E-01	0.209000E-01	0.140000E-02
27.400	0.293370E+01	0.254730E+01	0.323000E-01	0.254700E+00	0.178000E-01	0.211000E-01	0.130000E-02
27.600	0.293490E+01	0.254630E+01	0.314000E-01	0.254700E+00	0.173000E-01	0.212000E-01	0.120000E-02
27.800	0.293610E+01	0.254530E+01	0.306000E-01	0.254700E+00	0.168000E-01	0.214000E-01	0.110000E-02
28.000	0.293730E+01	0.254440E+01	0.298000E-01	0.254700E+00	0.163000E-01	0.216000E-01	0.110000E-02
28.400	0.293950E+01	0.254250E+01	0.283000E-01	0.254600E+00	0.153000E-01	0.220000E-01	0.900000E-03
29.000	0.294260E+01	0.254000E+01	0.262000E-01	0.254500E+00	0.140000E-01	0.225000E-01	0.700000E-03
29.200	0.294350E+01	0.253910E+01	0.255000E-01	0.254500E+00	0.135000E-01	0.227000E-01	0.700000E-03
29.400	0.294450E+01	0.253830E+01	0.248000E-01	0.254500E+00	0.131000E-01	0.229000E-01	0.600000E-03
29.600	0.294540E+01	0.253750E+01	0.242000E-01	0.254400E+00	0.127000E-01	0.231000E-01	0.600000E-03
29.800	0.294630E+01	0.253680E+01	0.236000E-01	0.254400E+00	0.123000E-01	0.232000E-01	0.600000E-03
30.000	0.294660E+01	0.253550E+01	0.230000E-01	0.254300E+00	0.119000E-01	0.234000E-01	0.500000E-03
30.600	0.294970E+01	0.253390E+01	0.213000E-01	0.254300E+00	0.107000E-01	0.239000E-01	0.400000E-03

Table 6: $(2)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	2-1	2-2	2-3	2-4	2-5	2-6	2-7
4.400	-0.591200E+00	0.767300E+00	0.129800E+00	-0.519200E+00	-0.243200E+00	0.187610E+01	0.162800E+00
4.600	-0.432700E+00	0.955400E+00	0.366800E+00	-0.794600E+00	-0.261500E+00	0.191420E+01	0.131200E+00
4.800	0.580000E-01	0.126930E+01	0.153110E+01	-0.367300E+00	-0.322500E+00	0.180940E+01	-0.325000E-01
5.000	0.485400E+00	0.159510E+01	0.243130E+01	-0.129200E+00	-0.371700E+00	0.149770E+01	-0.128700E+00
5.200	0.889700E+00	0.174240E+01	0.293250E+01	-0.289000E-01	-0.321400E+00	0.118550E+01	-0.267200E+00
5.400	0.110160E+01	0.176290E+01	0.309930E+01	0.270000E-02	-0.208600E+00	0.100070E+01	-0.356200E+00
5.600	0.120960E+01	0.173480E+01	0.312240E+01	0.145000E-01	-0.851000E-01	0.900500E+00	-0.414200E+00
5.800	0.126580E+01	0.168880E+01	0.308940E+01	0.694000E-01	0.241000E-01	0.840500E+00	-0.454100E+00
6.000	0.129340E+01	0.163610E+01	0.303420E+01	0.151000E+00	0.108900E+00	0.797300E+00	-0.482500E+00
6.200	0.130320E+01	0.158150E+01	0.297070E+01	0.242200E+00	0.173700E+00	0.759400E+00	-0.502600E+00
6.800	0.127040E+01	0.142450E+01	0.277930E+01	0.422000E+00	0.386700E+00	0.639100E+00	-0.528500E+00
7.000	0.124590E+01	0.137690E+01	0.272190E+01	0.424100E+00	0.477800E+00	0.595100E+00	-0.528000E+00
7.400	0.118360E+01	0.128990E+01	0.262280E+01	0.326400E+00	0.649900E+00	0.510400E+00	-0.514700E+00
7.600	0.114720E+01	0.125040E+01	0.258160E+01	0.218900E+00	0.719100E+00	0.473200E+00	-0.502400E+00
7.800	0.110820E+01	0.121330E+01	0.254270E+01	0.520000E-01	0.774200E+00	0.440300E+00	-0.487100E+00
8.000	0.106720E+01	0.117860E+01	0.249220E+01	0.212200E+00	0.815700E+00	0.411100E+00	-0.467600E+00
8.200	0.102450E+01	0.114600E+01	0.238640E+01	0.619200E+00	0.844400E+00	0.385400E+00	-0.443500E+00
8.400	0.980700E+00	0.111530E+01	0.216490E+01	0.111750E+01	0.861800E+00	0.363500E+00	-0.417600E+00
8.600	0.936100E+00	0.108630E+01	0.188270E+01	0.151110E+01	0.868500E+00	0.344200E+00	-0.387800E+00
8.800	0.891000E+00	0.105900E+01	0.165750E+01	0.173420E+01	0.865300E+00	0.327400E+00	-0.355600E+00
9.000	0.845800E+00	0.103320E+01	0.151060E+01	0.185310E+01	0.852900E+00	0.312500E+00	-0.322100E+00
9.200	0.800800E+00	0.100890E+01	0.141960E+01	0.192220E+01	0.831800E+00	0.299200E+00	-0.289800E+00
9.400	0.756400E+00	0.986000E+00	0.136480E+01	0.196810E+01	0.802800E+00	0.287100E+00	0.268100E+00
9.800	0.670000E+00	0.944600E+00	0.131810E+01	0.203270E+01	0.726100E+00	0.264900E+00	0.130700E+01
10.000	0.628600E+00	0.926200E+00	0.131420E+01	0.205920E+01	0.682500E+00	0.254000E+00	0.127060E+01
10.200	0.588600E+00	0.909500E+00	0.131910E+01	0.208330E+01	0.639000E+00	0.242600E+00	0.122340E+01
10.400	0.550300E+00	0.894400E+00	0.133090E+01	0.210450E+01	0.598400E+00	0.230100E+00	0.116680E+01
10.600	0.513800E+00	0.881000E+00	0.134840E+01	0.212220E+01	0.563500E+00	0.215300E+00	0.110280E+01
10.800	0.479100E+00	0.869200E+00	0.137110E+01	0.213570E+01	0.535900E+00	-0.196100E+00	-0.103360E+01
11.000	0.446400E+00	0.858700E+00	0.139850E+01	0.214420E+01	0.516100E+00	-0.168400E+00	-0.962000E+00
11.200	0.415700E+00	0.849400E+00	0.143040E+01	0.214720E+01	0.503500E+00	-0.123900E+00	-0.891500E+00
11.400	0.387000E+00	0.840800E+00	0.146680E+01	0.214410E+01	0.497000E+00	-0.458000E-01	-0.823300E+00
11.600	0.360200E+00	0.832400E+00	0.150770E+01	0.213480E+01	0.494700E+00	-0.803000E-01	-0.748400E+00
11.800	0.335200E+00	0.823600E+00	0.155290E+01	0.211930E+01	0.495100E+00	-0.200400E+00	-0.656500E+00
12.000	0.312000E+00	0.813800E+00	0.160250E+01	0.209770E+01	0.496600E+00	-0.237700E+00	-0.581200E+00
12.200	0.290500E+00	0.802200E+00	0.165620E+01	0.207030E+01	0.497900E+00	-0.213100E+00	-0.538200E+00
12.400	0.270400E+00	0.788500E+00	0.171390E+01	0.203750E+01	0.498100E+00	-0.159700E+00	-0.516600E+00
12.600	0.251900E+00	0.771900E+00	0.177490E+01	0.199950E+01	0.496800E+00	-0.927000E-01	-0.505500E+00
12.800	0.234600E+00	0.752300E+00	0.183890E+01	0.195670E+01	0.493400E+00	-0.179000E-01	-0.498100E+00
13.000	0.218500E+00	0.729600E+00	0.190520E+01	0.190950E+01	0.488200E+00	0.623000E-01	-0.489100E+00
13.200	0.203600E+00	0.703900E+00	0.197290E+01	0.185800E+01	0.481100E+00	0.146100E+00	-0.474000E+00
13.400	0.189800E+00	0.675500E+00	0.204120E+01	0.180280E+01	0.472400E+00	0.231000E+00	-0.449200E+00
13.600	0.176900E+00	0.645100E+00	0.210930E+01	0.174390E+01	0.462600E+00	0.312900E+00	-0.413400E+00
13.800	0.164900E+00	0.613200E+00	0.217640E+01	0.168200E+01	0.451900E+00	0.387100E+00	-0.368200E+00
14.000	0.153700E+00	0.580500E+00	0.224190E+01	0.161730E+01	0.440500E+00	0.450400E+00	-0.317800E+00
14.200	0.143400E+00	0.547600E+00	0.230520E+01	0.155030E+01	0.428800E+00	0.502000E+00	-0.266500E+00
14.400	0.133800E+00	0.515200E+00	0.236580E+01	0.148140E+01	0.416800E+00	0.543100E+00	-0.217300E+00
14.600	0.124800E+00	0.483600E+00	0.242340E+01	0.141120E+01	0.404800E+00	0.575700E+00	-0.171600E+00
14.800	0.116500E+00	0.453300E+00	0.247760E+01	0.134010E+01	0.392600E+00	0.601600E+00	-0.129500E+00
15.000	0.108800E+00	0.424400E+00	0.252850E+01	0.126870E+01	0.380500E+00	0.622400E+00	-0.907000E-01
15.200	0.101600E+00	0.397200E+00	0.257590E+01	0.119750E+01	0.368400E+00	0.639000E+00	-0.545000E-01
15.400	0.950000E-01	0.371700E+00	0.261990E+01	0.112680E+01	0.356300E+00	0.652300E+00	-0.204000E-01
15.600	0.888000E-01	0.347900E+00	0.266050E+01	0.105710E+01	0.344300E+00	0.663000E+00	0.123000E-01
15.800	0.831000E-01	0.325800E+00	0.269780E+01	0.988700E+00	0.332200E+00	0.671300E+00	0.440000E-01
16.200	0.728000E-01	0.286400E+00	0.276330E+01	0.857300E+00	0.307900E+00	0.682400E+00	0.106100E+00
16.400	0.682000E-01	0.268900E+00	0.279180E+01	0.794700E+00	0.295600E+00	0.685600E+00	0.137400E+00
16.600	0.639000E-01	0.252800E+00	0.281780E+01	0.734300E+00	0.283100E+00	0.687600E+00	0.169200E+00
16.800	0.600000E-01	0.237900E+00	0.284140E+01	0.676500E+00	0.270300E+00	0.688400E+00	0.201600E+00
17.000	0.563000E-01	0.224200E+00	0.286290E+01	0.621200E+00	0.257200E+00	0.688200E+00	0.234700E+00
17.200	0.528000E-01	0.211600E+00	0.288250E+01	0.568600E+00	0.243700E+00	0.687100E+00	0.268700E+00
17.400	0.496000E-01	0.199900E+00	0.290030E+01	0.518700E+00	0.229600E+00	0.685200E+00	0.303700E+00
17.600	0.467000E-01	0.189100E+00	0.291640E+01	0.471600E+00	0.215000E+00	0.682600E+00	0.339400E+00
17.800	0.439000E-01	0.179100E+00	0.293110E+01	0.427200E+00	0.199700E+00	0.679300E+00	0.376000E+00
18.000	0.413000E-01	0.169900E+00	0.294450E+01	0.385800E+00	0.183700E+00	0.675500E+00	0.413100E+00
18.600	0.346000E-01	0.145900E+00	0.297810E+01	0.278600E+00	0.131100E+00	0.660800E+00	0.525100E+00
19.000	0.308000E-01	0.132600E+00	0.299600E+01	0.221300E+00	0.924000E-01	0.648900E+00	0.596100E+00
19.200	0.291000E-01	0.126600E+00	0.300380E+01	0.196700E+00	0.721000E-01	0.642400E+00	0.628500E+00
19.400	0.275000E-01	0.120900E+00	0.301100E+01	0.174600E+00	0.513000E-01	0.635600E+00	0.658800E+00
19.800	0.246000E-01	0.110700E+00	0.302380E+01	0.137400E+00	0.880000E-02	0.620900E+00	0.715100E+00
20.000	0.232000E-01	0.106100E+00	0.302940E+01	0.122000E+00	0.127000E-01	0.613100E+00	0.738500E+00
20.400	0.208000E-01	0.976000E-01	0.303940E+01	0.965000E-01	0.557000E-01	0.596600E+00	0.775700E+00
20.600	0.197000E-01	0.937000E-01	0.304390E+01	0.860000E-01	0.771000E-01	0.587900E+00	0.789500E+00
21.600	0.151000E-01	0.772000E-01	0.306200E+01	0.509000E-01	0.179100E+00	0.539900E+00	0.811600E+00
22.400	0.122000E-01	0.667000E-01	0.307260E+01	0.359000E-01	0.252600E+00	0.496000E+00	0.794000E+00
22.600	0.116000E-01	0.644000E-01	0.307490E+01	0.332000E-01	0.269600E+00	0.484400E+00	0.788900E+00
22.800	0.110000E-01	0.621000E-01	0.307700E+01	0.309000E-01	0.285900E+00	0.472500E+00	0.784500E+00

23.000	0.104000E-01	0.600000E-01	0.307910E+01	0.289000E-01	0.301600E+00	0.460500E+00	0.780900E+00
23.200	0.990000E-02	0.580000E-01	0.308100E+01	0.271000E-01	0.316500E+00	0.448400E+00	0.778400E+00
23.800	0.840000E-02	0.524000E-01	0.308620E+01	0.230000E-01	0.357200E+00	0.411600E+00	0.775800E+00
24.000	0.790000E-02	0.507000E-01	0.308780E+01	0.219000E-01	0.369200E+00	0.399500E+00	0.775600E+00
24.200	0.750000E-02	0.491000E-01	0.308920E+01	0.210000E-01	0.380600E+00	0.387500E+00	0.775500E+00
24.400	0.710000E-02	0.475000E-01	0.309070E+01	0.201000E-01	0.391200E+00	0.375600E+00	0.775300E+00
24.600	0.670000E-02	0.460000E-01	0.309200E+01	0.194000E-01	0.401200E+00	0.363900E+00	0.774600E+00
24.800	0.630000E-02	0.446000E-01	0.309330E+01	0.187000E-01	0.410400E+00	0.352600E+00	0.773400E+00
25.000	0.600000E-02	0.432000E-01	0.309460E+01	0.181000E-01	0.419000E+00	0.341500E+00	0.771500E+00
25.200	0.560000E-02	0.418000E-01	0.309570E+01	0.176000E-01	0.426900E+00	0.330700E+00	0.768900E+00
25.400	0.530000E-02	0.406000E-01	0.309690E+01	0.170000E-01	0.434300E+00	0.320400E+00	0.765700E+00
25.600	0.500000E-02	0.393000E-01	0.309800E+01	0.166000E-01	0.441100E+00	0.310300E+00	0.761800E+00
25.800	0.470000E-02	0.381000E-01	0.309900E+01	0.162000E-01	0.447300E+00	0.300700E+00	0.757300E+00
26.000	0.440000E-02	0.370000E-01	0.310000E+01	0.158000E-01	0.453000E+00	0.291500E+00	0.752200E+00
26.200	0.410000E-02	0.359000E-01	0.310100E+01	0.154000E-01	0.458300E+00	0.282800E+00	0.746500E+00
26.400	0.380000E-02	0.348000E-01	0.310200E+01	0.151000E-01	0.463200E+00	0.274400E+00	0.740500E+00
26.600	0.360000E-02	0.338000E-01	0.310290E+01	0.148000E-01	0.467700E+00	0.266200E+00	0.734100E+00
26.800	0.330000E-02	0.328000E-01	0.310370E+01	0.145000E-01	0.471800E+00	0.258700E+00	0.727200E+00
27.000	0.310000E-02	0.319000E-01	0.310460E+01	0.142000E-01	0.475500E+00	0.251600E+00	0.720100E+00
27.200	0.290000E-02	0.310000E-01	0.310540E+01	0.139000E-01	0.478900E+00	0.244900E+00	0.712800E+00
27.400	0.270000E-02	0.301000E-01	0.310620E+01	0.137000E-01	0.482100E+00	0.238600E+00	0.705200E+00
27.600	0.250000E-02	0.292000E-01	0.310700E+01	0.134000E-01	0.485000E+00	0.232700E+00	0.697500E+00
27.800	0.230000E-02	0.284000E-01	0.310770E+01	0.132000E-01	0.487700E+00	0.227100E+00	0.689600E+00
28.000	0.210000E-02	0.276000E-01	0.310850E+01	0.130000E-01	0.490100E+00	0.221900E+00	0.681600E+00
28.400	0.170000E-02	0.261000E-01	0.310990E+01	0.125000E-01	0.494500E+00	0.212600E+00	0.665300E+00
29.000	0.120000E-02	0.240000E-01	0.311190E+01	0.119000E-01	0.499900E+00	0.201000E+00	0.640500E+00
29.200	0.110000E-02	0.234000E-01	0.311250E+01	0.118000E-01	0.501400E+00	0.197800E+00	0.632200E+00
29.400	0.900000E-03	0.227000E-01	0.311310E+01	0.116000E-01	0.502900E+00	0.194900E+00	0.623900E+00
29.600	0.800000E-03	0.221000E-01	0.311330E+01	0.114000E-01	0.504200E+00	0.192200E+00	0.615700E+00
29.800	0.700000E-03	0.216000E-01	0.311430E+01	0.112000E-01	0.505500E+00	0.189800E+00	0.607500E+00
30.000	0.600000E-03	0.210000E-01	0.311490E+01	0.110000E-01	0.506600E+00	0.187600E+00	0.599300E+00
30.600	0.200000E-03	0.194000E-01	0.311660E+01	0.105000E-01	0.509800E+00	0.182500E+00	0.575200E+00

Table 7: $(3)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	3-1	3-2	3-3	3-4	3-5	3-6	3-7
4.400	0.202550E+01	-0.186940E+01	0.115240E+01	0.457690E+01	-0.157800E+01	0.820600E+00	0.369200E+00
4.600	0.210330E+01	-0.177870E+01	0.207280E+01	0.402740E+01	-0.133540E+01	0.986700E+00	0.443400E+00
4.800	0.218960E+01	-0.154230E+01	0.413130E+01	0.752300E+00	-0.110140E+01	0.135050E+01	0.517900E+00
5.000	0.218410E+01	-0.113930E+01	0.363170E+01	0.595000E-01	-0.906600E+00	0.181700E+01	0.556000E+00
5.200	0.210620E+01	-0.786700E+00	0.310750E+01	-0.292400E+00	-0.813600E+00	0.213100E+01	0.555400E+00
5.400	0.206010E+01	-0.581200E+00	0.282530E+01	-0.457500E+00	-0.809200E+00	0.229590E+01	0.549900E+00
5.600	0.205570E+01	-0.467500E+00	0.270920E+01	-0.643500E+00	-0.836800E+00	0.238360E+01	0.548700E+00
5.800	0.207720E+01	-0.399700E+00	0.267950E+01	-0.869500E+00	-0.853800E+00	0.242420E+01	0.550400E+00
6.000	0.211290E+01	-0.354500E+00	0.269220E+01	-0.112130E+01	-0.845200E+00	0.242870E+01	0.553200E+00
6.200	0.215600E+01	-0.320200E+00	0.272370E+01	-0.136730E+01	-0.833000E+00	0.240330E+01	0.555900E+00
6.800	0.229450E+01	-0.235300E+00	0.281890E+01	-0.186310E+01	-0.111790E+01	0.221040E+01	0.556700E+00
7.000	0.233780E+01	-0.206800E+00	0.282920E+01	-0.193110E+01	-0.132320E+01	0.213100E+01	0.553400E+00
7.400	0.241390E+01	-0.146100E+00	0.278270E+01	-0.199230E+01	-0.174050E+01	0.198990E+01	0.540900E+00
7.600	0.244500E+01	-0.113700E+00	0.270520E+01	-0.203850E+01	-0.191400E+01	0.193730E+01	0.530500E+00
7.800	0.247080E+01	-0.800000E-01	0.256340E+01	-0.213760E+01	-0.205590E+01	0.189820E+01	0.517700E+00
8.000	0.249060E+01	-0.449000E-01	0.230870E+01	-0.232400E+01	-0.216800E+01	0.187230E+01	0.502300E+00
8.200	0.250380E+01	0.850000E-02	0.186150E+01	-0.260450E+01	-0.225460E+01	0.185790E+01	0.484800E+00
8.400	0.250980E+01	0.288000E-01	0.121300E+01	-0.286760E+01	-0.232020E+01	0.185520E+01	0.463800E+00
8.600	0.250820E+01	0.671000E-01	0.591400E+00	-0.295200E+01	-0.236830E+01	0.186080E+01	0.440500E+00
8.800	0.249850E+01	0.106200E+00	0.169500E+00	-0.288650E+01	-0.240150E+01	0.187330E+01	0.414100E+00
9.000	0.248010E+01	0.145700E+00	0.888000E-01	-0.275360E+01	-0.242170E+01	0.189060E+01	0.384300E+00
9.200	0.245250E+01	0.185600E+00	0.251000E+00	-0.258910E+01	-0.242960E+01	0.191030E+01	0.349900E+00
9.400	0.241530E+01	0.225400E+00	0.358700E+00	-0.240430E+01	-0.242510E+01	0.192980E+01	0.307400E+00
9.800	0.231000E+01	0.303700E+00	0.488100E+00	-0.199050E+01	-0.237470E+01	0.195670E+01	0.511200E+00
10.000	0.224120E+01	0.341300E+00	0.527800E+00	-0.176980E+01	-0.232590E+01	0.195800E+01	0.569200E+00
10.200	0.216130E+01	0.376900E+00	0.556700E+00	-0.154680E+01	-0.226000E+01	0.194690E+01	0.601200E+00
10.400	0.207050E+01	0.409800E+00	0.577000E+00	-0.132760E+01	-0.217720E+01	0.192060E+01	0.618000E+00
10.600	0.196940E+01	0.439300E+00	0.590200E+00	-0.111810E+01	-0.207950E+01	0.187640E+01	0.624600E+00
10.800	0.185940E+01	0.464300E+00	0.597400E+00	-0.923200E+00	-0.197010E+01	0.181240E+01	0.627700E+00
11.000	0.174240E+01	0.484000E+00	0.599700E+00	-0.746700E+00	-0.185330E+01	0.172610E+01	0.638500E+00
11.200	0.162120E+01	0.497800E+00	0.598200E+00	-0.591200E+00	-0.173320E+01	0.161170E+01	0.677000E+00
11.400	0.149930E+01	0.505300E+00	0.594100E+00	-0.457800E+00	-0.161380E+01	0.145120E+01	0.776600E+00
11.600	0.137980E+01	0.506600E+00	0.588400E+00	-0.346400E+00	-0.149770E+01	0.120590E+01	0.956400E+00
11.800	0.126550E+01	0.502100E+00	0.582000E+00	-0.255700E+00	-0.138690E+01	0.908100E+00	0.110820E+01
12.000	0.115850E+01	0.492300E+00	0.575500E+00	-0.183700E+00	-0.128230E+01	0.706800E+00	0.112750E+01
12.200	0.106010E+01	0.477900E+00	0.569200E+00	-0.128100E+00	-0.118400E+01	0.619400E+00	0.106940E+01
12.400	0.970700E+00	0.459900E+00	0.563200E+00	-0.863000E-01	-0.109220E+01	0.595000E+00	0.983500E+00
12.600	0.890100E+00	0.439000E+00	0.557500E+00	-0.557000E-01	-0.100670E+01	0.600700E+00	0.887600E+00
12.800	0.818000E+00	0.415900E+00	0.551800E+00	-0.343000E-01	-0.927400E+00	0.620100E+00	0.787500E+00
13.000	0.753500E+00	0.391400E+00	0.545900E+00	-0.202000E-01	-0.854200E+00	0.644500E+00	0.684600E+00
13.200	0.696000E+00	0.366200E+00	0.539500E+00	-0.118000E-01	-0.787000E+00	0.668100E+00	0.579300E+00
13.400	0.644700E+00	0.340800E+00	0.532400E+00	-0.780000E-02	-0.725700E+00	0.685900E+00	0.473400E+00
13.600	0.598900E+00	0.315800E+00	0.524400E+00	0.720000E-02	-0.670000E+00	0.693800E+00	0.371000E+00
13.800	0.557800E+00	0.291600E+00	0.515500E+00	0.930000E-02	-0.619600E+00	0.689400E+00	0.278500E+00
14.000	0.520900E+00	0.268600E+00	0.505700E+00	0.132000E-01	-0.574200E+00	0.673900E+00	0.201500E+00
14.200	0.487700E+00	0.246900E+00	0.495100E+00	0.185000E-01	-0.533300E+00	0.650300E+00	0.142600E+00
14.400	0.457700E+00	0.226700E+00	0.483700E+00	0.248000E-01	-0.496300E+00	0.622200E+00	0.101300E+00
14.600	0.430500E+00	0.208200E+00	0.471600E+00	0.316000E-01	-0.463000E+00	0.592600E+00	0.752000E-01
14.800	0.405700E+00	0.191200E+00	0.459200E+00	0.388000E-01	-0.432800E+00	0.563200E+00	0.617000E-01
15.000	0.383100E+00	0.175700E+00	0.446400E+00	0.462000E-01	-0.405300E+00	0.534900E+00	0.582000E-01
15.200	0.362400E+00	0.161700E+00	0.433400E+00	0.536000E-01	-0.380200E+00	0.508300E+00	0.627000E-01
15.400	0.343300E+00	0.149100E+00	0.420400E+00	0.608000E-01	-0.357200E+00	0.483300E+00	0.738000E-01
15.600	0.325800E+00	0.137700E+00	0.407500E+00	0.679000E-01	-0.335900E+00	0.460100E+00	0.903000E-01
15.800	0.309600E+00	0.127500E+00	0.394700E+00	0.747000E-01	-0.316100E+00	0.438500E+00	0.111200E+00
16.200	0.280600E+00	0.110000E+00	0.369800E+00	0.874000E-01	-0.280200E+00	0.399700E+00	0.164800E+00
16.400	0.267500E+00	0.102500E+00	0.357800E+00	0.933000E-01	-0.263800E+00	0.382200E+00	0.196600E+00
16.600	0.255300E+00	0.958000E-01	0.346200E+00	0.988000E-01	-0.248100E+00	0.365900E+00	0.231400E+00
16.800	0.243900E+00	0.897000E-01	0.335000E+00	0.104000E+00	-0.233100E+00	0.350600E+00	0.269000E+00
17.000	-0.233200E+00	0.842000E-01	0.324100E+00	0.108800E+00	-0.218700E+00	0.336100E+00	0.309200E+00
17.200	0.223200E+00	0.792000E-01	0.313600E+00	0.113300E+00	-0.204700E+00	0.322500E+00	0.351700E+00
17.400	0.213700E+00	0.746000E-01	0.303600E+00	0.117400E+00	-0.191200E+00	0.309600E+00	0.396600E+00
17.600	0.204700E+00	0.705000E-01	0.293900E+00	0.121100E+00	-0.178000E+00	0.297300E+00	0.443500E+00
17.800	0.196300E+00	0.667000E-01	0.284500E+00	0.124300E+00	-0.165200E+00	0.285700E+00	0.492100E+00
18.000	0.188200E+00	0.632000E-01	0.275600E+00	0.127100E+00	-0.152700E+00	0.274600E+00	0.542400E+00
18.600	0.166600E+00	0.544000E-01	0.250800E+00	0.132600E+00	-0.117200E+00	0.244300E+00	0.698800E+00
19.000	0.153900E+00	0.495000E-01	0.235800E+00	0.133600E+00	-0.955000E-01	0.226000E+00	0.804200E+00
19.200	0.148000E+00	0.473000E-01	0.228700E+00	0.133400E+00	-0.853000E-01	0.217400E+00	0.857000E+00
19.400	0.142400E+00	0.453000E-01	0.221900E+00	0.132700E+00	-0.755000E-01	0.209000E+00	0.908300E+00
19.800	0.131900E+00	0.416000E-01	0.209100E+00	0.130100E+00	-0.579000E-01	0.193600E+00	0.100240E+01
20.000	0.127000E+00	0.399000E-01	0.203000E+00	0.128200E+00	-0.498000E-01	0.186200E+00	0.104690E+01
20.400	0.117900E+00	0.369000E-01	0.191600E+00	0.123800E+00	-0.351000E-01	0.172200E+00	0.112860E+01
20.600	0.113700E+00	0.355000E-01	0.186200E+00	0.121300E+00	-0.286000E-01	0.165600E+00	0.116540E+01
21.600	0.950000E-01	0.294000E-01	0.161900E+00	0.107200E+00	-0.240000E-02	0.135300E+00	0.130810E+01
22.400	0.827000E-01	0.256000E-01	0.145500E+00	0.957000E-01	0.120000E-01	0.114300E+00	0.138640E+01
22.600	0.800000E-01	0.247000E-01	0.141700E+00	0.929000E-01	0.148000E-01	0.109500E+00	0.140540E+01
22.800	0.773000E-01	0.239000E-01	0.138100E+00	0.902000E-01	0.174000E-01	0.104700E+00	0.142520E+01

23.000	0.748000E-01	0.231000E-01	0.134600E+00	0.876000E-01	0.197000E-01	0.100200E+00	0.144640E+01
23.200	0.724000E-01	0.223000E-01	0.131200E+00	0.850000E-01	0.218000E-01	0.958000E-01	0.146900E+01
23.800	0.656000E-01	0.202000E-01	0.121600E+00	0.777000E-01	0.266000E-01	0.835000E-01	0.154450E+01
24.000	0.636000E-01	0.196000E-01	0.118700E+00	0.754000E-01	0.278000E-01	0.797000E-01	0.157140E+01
24.200	0.616000E-01	0.189000E-01	0.115800E+00	0.731000E-01	0.288000E-01	0.761000E-01	0.159830E+01
24.400	0.597000E-01	0.183000E-01	0.113000E+00	0.710000E-01	0.296000E-01	0.726000E-01	0.162510E+01
24.600	0.579000E-01	0.178000E-01	0.110300E+00	0.689000E-01	0.303000E-01	0.692000E-01	0.165140E+01
24.800	0.561000E-01	0.172000E-01	0.107700E+00	0.669000E-01	0.308000E-01	0.660000E-01	0.167700E+01
25.000	0.544000E-01	0.167000E-01	0.105200E+00	0.649000E-01	0.312000E-01	0.629000E-01	0.170180E+01
25.200	0.528000E-01	0.162000E-01	0.102700E+00	0.631000E-01	0.315000E-01	0.600000E-01	0.172570E+01
25.400	0.512000E-01	0.157000E-01	0.100300E+00	0.612000E-01	0.316000E-01	0.572000E-01	0.174860E+01
25.600	0.497000E-01	0.152000E-01	0.980000E-01	0.595000E-01	0.317000E-01	0.546000E-01	0.177060E+01
25.800	0.482000E-01	0.147000E-01	0.958000E-01	0.578000E-01	0.316000E-01	0.521000E-01	0.179180E+01
26.000	0.468000E-01	0.143000E-01	0.936000E-01	0.561000E-01	0.315000E-01	0.497000E-01	0.181200E+01
26.200	0.455000E-01	0.138000E-01	0.915000E-01	0.545000E-01	0.313000E-01	0.474000E-01	0.183140E+01
26.400	0.442000E-01	0.134000E-01	0.895000E-01	0.530000E-01	0.311000E-01	0.452000E-01	0.185010E+01
26.600	0.429000E-01	0.130000E-01	0.875000E-01	0.515000E-01	0.308000E-01	0.431000E-01	0.186800E+01
26.800	0.417000E-01	0.126000E-01	0.856000E-01	0.501000E-01	0.304000E-01	0.412000E-01	0.188530E+01
27.000	0.405000E-01	0.123000E-01	0.838000E-01	0.487000E-01	0.301000E-01	0.393000E-01	0.190200E+01
27.200	0.394000E-01	0.119000E-01	0.819000E-01	0.474000E-01	0.296000E-01	0.375000E-01	0.191810E+01
27.400	0.383000E-01	0.116000E-01	0.802000E-01	0.461000E-01	0.292000E-01	0.359000E-01	0.193370E+01
27.600	0.373000E-01	0.112000E-01	0.785000E-01	0.449000E-01	0.287000E-01	0.343000E-01	0.194880E+01
27.800	0.363000E-01	0.109000E-01	0.768000E-01	0.437000E-01	0.283000E-01	0.328000E-01	0.196340E+01
28.000	0.353000E-01	0.106000E-01	0.752000E-01	0.425000E-01	0.278000E-01	0.313000E-01	0.197760E+01
28.400	0.334000E-01	0.100000E-01	0.721000E-01	0.403000E-01	0.268000E-01	0.287000E-01	0.200480E+01
29.000	0.309000E-01	0.920000E-02	0.678000E-01	0.373000E-01	0.252000E-01	0.251000E-01	0.204280E+01
29.200	0.301000E-01	0.890000E-02	0.665000E-01	0.363000E-01	0.247000E-01	0.240000E-01	0.205470E+01
29.400	0.293000E-01	0.860000E-02	0.651000E-01	0.354000E-01	0.242000E-01	0.230000E-01	0.206650E+01
29.600	0.285000E-01	0.840000E-02	0.638000E-01	0.345000E-01	0.237000E-01	0.220000E-01	0.207790E+01
29.800	0.278000E-01	0.820000E-02	0.626000E-01	0.337000E-01	0.232000E-01	0.211000E-01	0.208900E+01
30.000	0.271000E-01	0.790000E-02	0.614000E-01	0.328000E-01	0.228000E-01	0.202000E-01	0.209980E+01
30.600	0.251000E-01	0.730000E-02	0.579000E-01	0.305000E-01	0.213000E-01	0.177000E-01	0.213070E+01

Table 8: $(4)^3\Sigma^+-(1-7)^3\Pi$ transitions

R	4-1	4-2	4-3	4-4	4-5	4-6	4-7
4.400	0.332800E+00	0.164760E+01	0.937200E+00	0.100900E+00	0.597880E+01	0.745700E+00	0.134800E+01
4.600	0.394900E+00	0.179560E+01	0.111930E+01	0.143000E-01	0.608380E+01	0.710800E+00	0.118460E+01
4.800	0.455400E+00	0.193800E+01	0.109950E+01	0.889700E+00	0.614560E+01	0.726700E+00	0.101300E+01
5.000	0.512600E+00	0.206760E+01	0.129440E+01	0.120870E+01	0.615370E+01	0.800000E+00	0.845000E+00
5.200	0.566100E+00	0.217990E+01	0.157040E+01	0.148880E+01	0.609780E+01	0.930600E+00	0.688900E+00
5.400	0.616000E+00	0.227250E+01	0.183220E+01	0.183580E+01	0.596400E+01	0.111280E+01	0.548700E+00
5.600	0.663300E+00	0.234500E+01	0.206590E+01	0.226280E+01	0.573520E+01	0.133620E+01	0.425800E+00
5.800	0.709000E+00	0.239850E+01	0.227170E+01	0.272320E+01	0.541030E+01	0.158580E+01	0.320100E+00
6.000	0.754200E+00	0.243460E+01	0.245310E+01	0.310530E+01	0.504030E+01	0.184490E+01	0.231000E+00
6.200	0.799900E+00	0.245530E+01	0.261420E+01	0.330480E+01	0.471800E+01	0.210130E+01	0.157600E+00
6.800	0.946800E+00	0.244240E+01	0.300730E+01	0.288260E+01	0.428850E+01	0.284170E+01	0.243000E-01
7.000	0.100070E+01	0.241840E+01	0.311370E+01	0.258840E+01	0.422600E+01	0.304790E+01	0.640000E-02
7.400	0.111850E+01	0.234770E+01	0.328410E+01	0.209420E+01	0.410670E+01	0.331160E+01	-0.440000E-02
7.600	0.118290E+01	0.230290E+01	0.333530E+01	0.197920E+01	0.404770E+01	0.336740E+01	-0.195000E-01
7.800	0.125130E+01	0.225270E+01	0.333970E+01	0.200510E+01	0.399570E+01	0.338010E+01	-0.432000E-01
8.000	0.132390E+01	0.219760E+01	0.324660E+01	0.222380E+01	0.395680E+01	0.335590E+01	-0.746000E-01
8.200	0.140090E+01	0.213800E+01	0.295570E+01	0.267810E+01	0.393540E+01	0.330050E+01	-0.111300E+00
8.400	0.148240E+01	0.207450E+01	0.240090E+01	0.325940E+01	0.393380E+01	0.321890E+01	-0.154500E+00
8.600	0.156850E+01	0.200730E+01	0.178560E+01	0.369980E+01	0.395360E+01	0.311370E+01	-0.200700E+00
8.800	0.165920E+01	0.193660E+01	0.133370E+01	0.394460E+01	0.399470E+01	0.298710E+01	-0.249400E+00
9.000	0.175450E+01	0.186240E+01	0.104240E+01	0.408060E+01	0.405630E+01	0.283990E+01	-0.298900E+00
9.200	0.185470E+01	0.178460E+01	0.848500E+00	0.416230E+01	0.413650E+01	0.267150E+01	-0.346900E+00
9.400	0.196010E+01	0.170230E+01	0.707000E+00	0.421080E+01	0.423100E+01	0.247890E+01	-0.385400E+00
9.800	0.218740E+01	0.151150E+01	0.479500E+00	0.422890E+01	0.441790E+01	0.197830E+01	-0.121790E+01
10.000	0.230070E+01	0.137880E+01	0.349500E+00	0.417560E+01	0.443180E+01	0.159810E+01	-0.138840E+01
10.200	0.235100E+01	0.115810E+01	0.159100E+00	0.395300E+01	0.417480E+01	0.984900E+00	-0.151290E+01
10.400	0.216820E+01	0.790500E+00	-0.970000E-01	0.329220E+01	0.333010E+01	0.101100E+00	-0.147200E+01
10.600	0.187380E+01	0.468200E+00	-0.280800E+00	0.250570E+01	0.241440E+01	0.571700E+00	-0.131830E+01
10.800	0.170180E+01	0.290900E+00	-0.371800E+00	0.198610E+01	0.189440E+01	0.916600E+00	-0.122620E+01
11.000	0.162600E+01	0.191200E+00	-0.421000E+00	0.165400E+01	0.162580E+01	0.109380E+01	-0.120430E+01
11.200	0.159710E+01	0.126600E+00	-0.452100E+00	0.141710E+01	0.147880E+01	0.116770E+01	-0.124420E+01
11.400	0.158830E+01	0.800000E-01	-0.473300E+00	0.123060E+01	0.139190E+01	0.112630E+01	-0.136210E+01
11.600	0.158630E+01	0.448000E-01	-0.488000E+00	0.107400E+01	0.133560E+01	0.909000E+00	-0.156540E+01
11.800	0.158410E+01	0.180000E-01	-0.497400E+00	0.937400E+00	0.129470E+01	0.570400E+00	-0.174410E+01
12.000	0.157870E+01	-0.140000E-02	-0.502000E+00	0.816200E+00	0.126080E+01	0.341900E+00	-0.181180E+01
12.200	0.156910E+01	-0.142000E-01	-0.502300E+00	0.707800E+00	0.122920E+01	0.264100E+00	-0.181990E+01
12.400	0.155570E+01	-0.212000E-01	-0.498600E+00	0.610500E+00	0.119700E+01	0.278800E+00	-0.180190E+01
12.600	0.153910E+01	-0.232000E-01	-0.491300E+00	0.523200E+00	0.116290E+01	0.347100E+00	-0.176600E+01
12.800	0.152020E+01	-0.210000E-01	-0.480800E+00	0.444700E+00	0.112630E+01	0.449800E+00	-0.171250E+01
13.000	0.149970E+01	-0.157000E-01	-0.467500E+00	0.374000E+00	0.108730E+01	0.576200E+00	-0.163950E+01
13.200	0.147860E+01	-0.820000E-02	-0.451700E+00	0.310200E+00	0.104640E+01	0.717600E+00	-0.154420E+01
13.400	0.145730E+01	-0.800000E-03	-0.433800E+00	0.252300E+00	0.100440E+01	0.863700E+00	-0.142540E+01
13.600	0.143640E+01	0.103000E-01	-0.414400E+00	0.199700E+00	0.962100E+00	0.100130E+01	-0.128630E+01
13.800	0.141620E+01	0.199000E-01	-0.393800E+00	0.151600E+00	0.920600E+00	0.111720E+01	-0.113640E+01
14.000	0.139700E+01	0.291000E-01	-0.372300E+00	0.107400E+00	0.880400E+00	0.120380E+01	-0.988400E+00
14.200	0.137920E+01	0.375000E-01	-0.350500E+00	0.667000E-01	0.842400E+00	0.126110E+01	-0.852600E+00
14.400	0.136270E+01	0.450000E-01	-0.328600E+00	0.291000E-01	0.807000E+00	0.129420E+01	-0.734300E+00
14.600	0.134780E+01	0.514000E-01	-0.307000E+00	-0.560000E-02	0.774700E+00	0.130920E+01	-0.634300E+00
14.800	0.133450E+01	0.568000E-01	-0.285900E+00	-0.375000E-01	0.745600E+00	0.131180E+01	-0.550900E+00
15.000	0.132280E+01	0.612000E-01	-0.265400E+00	-0.669000E-01	0.720100E+00	0.130610E+01	-0.481900E+00
15.200	0.131290E+01	0.646000E-01	-0.245800E+00	-0.936000E-01	0.698300E+00	0.129510E+01	-0.424700E+00
15.400	0.130470E+01	0.672000E-01	-0.227200E+00	-0.117800E+00	0.680200E+00	0.128060E+01	-0.377200E+00
15.600	0.129820E+01	0.691000E-01	-0.209600E+00	-0.139200E+00	0.665800E+00	0.126420E+01	-0.337800E+00
15.800	0.129340E+01	0.703000E-01	-0.193000E+00	-0.157800E+00	0.655100E+00	0.124680E+01	-0.305000E+00
16.200	0.128880E+01	0.713000E-01	-0.163000E+00	-0.186000E+00	0.644400E+00	0.122120E+01	-0.254600E+00
16.400	0.128890E+01	0.712000E-01	-0.149500E+00	-0.195100E+00	0.644100E+00	0.119370E+01	-0.235300E+00
16.600	0.129050E+01	0.708000E-01	-0.137100E+00	-0.200800E+00	0.646800E+00	0.117680E+01	-0.219200E+00
16.800	0.129350E+01	0.701000E-01	-0.125500E+00	-0.202800E+00	0.652300E+00	0.116070E+01	-0.205600E+00
17.000	0.129780E+01	0.693000E-01	-0.114900E+00	-0.200800E+00	0.660300E+00	0.114530E+01	-0.194200E+00
17.200	0.130350E+01	0.683000E-01	-0.105100E+00	-0.194900E+00	0.670300E+00	0.113070E+01	-0.184600E+00
17.400	0.131030E+01	0.673000E-01	-0.961000E-01	-0.184900E+00	0.682000E+00	0.111700E+01	-0.176300E+00
17.600	0.131820E+01	0.661000E-01	-0.879000E-01	-0.170600E+00	0.695000E+00	0.110410E+01	-0.169300E+00
17.800	0.132710E+01	0.649000E-01	-0.803000E-01	-0.152300E+00	0.708600E+00	0.109200E+01	-0.162900E+00
18.000	0.133690E+01	0.637000E-01	-0.733000E-01	-0.130000E+00	0.722500E+00	0.108080E+01	-0.157000E+00
18.600	0.137070E+01	0.600000E-01	-0.558000E-01	-0.412000E-01	0.760200E+00	0.105200E+01	-0.139300E+00
19.000	0.139580E+01	0.575000E-01	-0.465000E-01	0.322000E-01	0.777800E+00	0.103640E+01	-0.124900E+00
19.200	0.140890E+01	0.563000E-01	-0.424000E-01	0.717000E-01	0.783400E+00	0.102970E+01	-0.116000E+00
19.400	0.142220E+01	0.551000E-01	-0.386000E-01	0.112300E+00	0.786800E+00	0.102380E+01	-0.105000E+00
19.800	0.144910E+01	0.528000E-01	-0.320000E-01	0.195800E+00	0.785000E+00	0.101260E+01	-0.802000E-01
20.000	0.146270E+01	0.517000E-01	-0.290000E-01	0.237600E+00	0.780500E+00	0.100790E+01	-0.648000E-01
20.400	0.148950E+01	0.496000E-01	-0.239000E-01	0.319500E+00	0.764500E+00	0.999800E+00	-0.278000E-01
20.600	0.150270E+01	0.485000E-01	-0.216000E-01	0.359200E+00	0.753200E+00	0.996200E+00	-0.620000E-02
21.600	0.156460E+01	0.437000E-01	-0.124000E-01	0.539700E+00	0.670300E+00	0.981500E+00	0.124100E+00
22.400	0.160800E+01	0.401000E-01	-0.720000E-02	0.659300E+00	0.582000E+00	0.968700E+00	0.219400E+00
22.600	0.161780E+01	0.393000E-01	-0.620000E-02	0.685800E+00	0.558300E+00	0.964800E+00	0.235400E+00
22.800	0.162730E+01	0.384000E-01	-0.520000E-02	0.711000E+00	0.534300E+00	0.960500E+00	0.247100E+00

23.000	0.163640E+01	0.376000E-01	-0.430000E-02	0.734900E+00	0.510100E+00	0.955700E+00	0.254400E+00
23.200	0.164510E+01	0.368000E-01	-0.350000E-02	0.757600E+00	0.485900E+00	0.950400E+00	0.257300E+00
23.800	0.166890E+01	0.346000E-01	-0.130000E-02	0.818600E+00	0.414700E+00	0.931300E+00	0.243600E+00
24.000	0.167600E+01	0.338000E-01	-0.700000E-03	0.836800E+00	0.391900E+00	0.923800E+00	0.233400E+00
24.200	0.168290E+01	0.331000E-01	-0.100000E-03	0.853900E+00	0.369700E+00	0.915700E+00	0.221500E+00
24.400	0.168940E+01	0.324000E-01	0.400000E-03	0.870100E+00	0.348200E+00	0.907000E+00	0.208600E+00
24.600	0.169560E+01	0.318000E-01	0.900000E-03	0.885400E+00	0.327500E+00	0.897800E+00	0.195200E+00
24.800	0.170150E+01	0.311000E-01	0.140000E-02	0.899800E+00	0.307700E+00	0.888100E+00	0.181700E+00
25.000	0.170700E+01	0.304000E-01	0.180000E-02	0.913300E+00	0.288800E+00	0.878000E+00	0.168400E+00
25.200	0.171230E+01	0.298000E-01	0.220000E-02	0.926100E+00	0.270700E+00	0.867500E+00	0.155600E+00
25.400	0.171730E+01	0.292000E-01	0.260000E-02	0.938100E+00	0.253600E+00	0.856700E+00	0.143600E+00
25.600	0.172200E+01	0.286000E-01	0.300000E-02	0.949400E+00	0.237500E+00	0.845500E+00	0.132300E+00
25.800	0.172650E+01	0.280000E-01	0.330000E-02	0.960000E+00	0.222200E+00	0.834100E+00	0.121800E+00
26.000	0.173080E+01	0.274000E-01	0.370000E-02	0.970000E+00	0.207900E+00	0.822500E+00	0.112200E+00
26.200	0.173480E+01	0.268000E-01	0.400000E-02	0.979400E+00	0.194400E+00	0.810800E+00	0.103400E+00
26.400	0.173860E+01	0.263000E-01	0.420000E-02	0.988300E+00	0.181800E+00	0.798900E+00	0.954000E-01
26.600	0.174220E+01	0.257000E-01	0.450000E-02	0.996600E+00	0.169800E+00	0.786400E+00	0.881000E-01
26.800	0.174560E+01	0.252000E-01	0.480000E-02	0.100440E+01	0.158800E+00	0.774400E+00	0.814000E-01
27.000	0.174890E+01	0.247000E-01	0.500000E-02	0.101170E+01	0.148500E+00	0.762300E+00	0.755000E-01
27.200	0.175180E+01	0.242000E-01	0.520000E-02	0.101850E+01	0.138900E+00	0.750200E+00	0.700000E-01
27.400	0.175470E+01	0.237000E-01	0.540000E-02	0.102500E+01	0.129900E+00	0.738200E+00	0.651000E-01
27.600	0.175740E+01	0.232000E-01	0.560000E-02	0.103110E+01	0.121600E+00	0.726200E+00	0.607000E-01
27.800	0.176000E+01	0.227000E-01	0.570000E-02	0.103680E+01	0.113800E+00	0.714300E+00	0.567000E-01
28.000	0.176250E+01	0.223000E-01	0.590000E-02	0.104210E+01	0.106600E+00	0.702400E+00	0.530000E-01
28.400	0.176690E+01	0.214000E-01	0.610000E-02	0.105190E+01	0.936000E-01	0.679000E+00	0.467000E-01
29.000	0.177290E+01	0.201000E-01	0.640000E-02	0.106450E+01	0.774000E-01	0.644900E+00	0.392000E-01
29.200	0.177460E+01	0.198000E-01	0.640000E-02	0.106810E+01	0.727000E-01	0.633800E+00	0.372000E-01
29.400	0.177620E+01	0.194000E-01	0.640000E-02	0.107160E+01	0.683000E-01	0.622900E+00	0.353000E-01
29.600	0.177780E+01	0.190000E-01	0.650000E-02	0.107480E+01	0.642000E-01	0.612200E+00	0.335000E-01
29.800	0.177930E+01	0.186000E-01	0.650000E-02	0.107790E+01	0.604000E-01	0.601600E+00	0.319000E-01
30.000	0.178070E+01	0.183000E-01	0.650000E-02	0.108080E+01	0.568000E-01	0.591200E+00	0.305000E-01
30.600	0.178440E+01	0.172000E-01	0.640000E-02	0.108840E+01	0.475000E-01	0.560800E+00	0.267000E-01

The following tables display the dipole moment functions between the four lowest Σ^+ states with the seven lowest Σ states of **NaCs**, for singlet (Tables 1 to 4) and triplet (Tables 5 to 8) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr =0.0529177 nm, and 1 a.u. =2.54158059 Debye. All states are identified with their number with increasing energy. When both indexes are equal, the function corresponds to the permanent dipole moment.

Table 1: (1)¹ Σ^+ -(1-7)¹ Σ^+ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.200	-0.565700E+00	0.322290E+01	-0.172630E+01	0.196600E+00	0.439000E-01	0.365500E+00	0.875000E-01
3.400	-0.850700E+00	0.317010E+01	-0.177170E+01	0.390300E+00	0.444000E-01	0.328800E+00	0.103800E+00
3.600	-0.105770E+01	0.313720E+01	-0.176420E+01	0.571200E+00	0.106100E+00	0.265500E+00	0.129800E+00
3.800	-0.120500E+01	0.312920E+01	-0.170440E+01	0.754100E+00	0.179200E+00	0.180500E+00	0.155200E+00
4.200	-0.138050E+01	0.319660E+01	-0.136420E+01	0.116800E+01	0.166500E+00	0.567000E-01	0.125800E+00
4.600	-0.146940E+01	0.332060E+01	-0.778700E+00	0.144530E+01	0.997000E-01	0.335300E+00	0.371000E-01
4.800	-0.149940E+01	0.336620E+01	-0.484800E+00	0.149110E+01	0.250300E+00	0.456400E+00	-0.100200E+00
5.000	-0.152570E+01	0.339460E+01	-0.246300E+00	0.150120E+01	0.357500E+00	0.553000E+00	-0.150800E+00
5.200	-0.155060E+01	0.341440E+01	-0.814000E-01	0.149840E+01	0.417800E+00	0.624400E+00	-0.184600E+00
5.400	-0.157580E+01	0.343410E+01	-0.131000E-01	0.149350E+01	0.444500E+00	0.674800E+00	-0.198900E+00
5.600	-0.160200E+01	0.345870E+01	-0.506000E-01	0.149030E+01	0.450400E+00	0.708700E+00	-0.196700E+00
5.800	-0.162950E+01	0.348950E+01	-0.461000E-01	0.148950E+01	0.444100E+00	0.729500E+00	-0.184300E+00
6.000	-0.165830E+01	0.352610E+01	0.124000E+01	0.149120E+01	0.429900E+00	0.739900E+00	-0.166300E+00
6.200	-0.168810E+01	0.356780E+01	0.402000E-01	0.149500E+01	0.409600E+00	0.741800E+00	-0.147100E+00
6.400	-0.171840E+01	0.361370E+01	0.103800E+00	0.150100E+01	0.383600E+00	0.737000E+00	-0.128700E+00
6.600	-0.174890E+01	0.366290E+01	0.172700E+00	0.150940E+01	0.351200E+00	0.726800E+00	-0.112000E+00
6.800	-0.177880E+01	0.371470E+01	0.242900E+00	0.152050E+01	0.311200E+00	0.712400E+00	-0.970000E-01
7.000	-0.180770E+01	0.376850E+01	0.312000E+00	0.153440E+01	0.262500E+00	0.694400E+00	-0.833000E-01
7.200	-0.183460E+01	0.382380E+01	0.378300E+00	0.155080E+01	0.204300E+00	0.673600E+00	-0.702000E-01
7.400	-0.185900E+01	0.387990E+01	0.441200E+00	0.156890E+01	0.136800E+00	0.650300E+00	-0.568000E-01
7.600	-0.188000E+01	0.393640E+01	0.500200E+00	0.158780E+01	0.616000E-01	0.624800E+00	-0.422000E-01
7.800	-0.189680E+01	0.399270E+01	0.555100E+00	0.160650E+01	0.181000E-01	0.597500E+00	-0.256000E-01
8.200	-0.191400E+01	0.410220E+01	0.651600E+00	0.164360E+01	-0.175700E+00	0.537400E+00	-0.154000E-01
8.400	-0.191280E+01	0.415430E+01	0.692500E+00	0.166350E+01	-0.246700E+00	0.504800E+00	0.396000E-01
8.600	-0.190380E+01	0.420370E+01	0.727900E+00	0.168610E+01	-0.309700E+00	0.470600E+00	0.657000E-01
8.800	-0.188630E+01	0.424970E+01	0.756800E+00	0.171240E+01	-0.364000E+00	0.434700E+00	0.926000E-01
9.000	-0.185990E+01	0.429150E+01	0.778300E+00	0.174340E+01	-0.409700E+00	0.397200E+00	0.119000E+00
9.200	-0.182410E+01	0.432820E+01	0.791200E+00	0.177990E+01	-0.447200E+00	0.358300E+00	0.143800E+00
9.400	-0.177880E+01	0.435900E+01	0.793900E+00	0.182210E+01	-0.476800E+00	0.318100E+00	0.165900E+00
9.600	-0.172410E+01	0.438310E+01	0.784500E+00	0.187020E+01	-0.499200E+00	0.277000E+00	0.184200E+00
9.800	-0.166040E+01	0.439980E+01	0.760800E+00	0.192420E+01	-0.514700E+00	0.235500E+00	0.197800E+00
10.000	-0.158860E+01	0.440840E+01	0.720200E+00	0.198350E+01	-0.523800E+00	0.194800E+00	0.205800E+00
10.200	-0.150950E+01	0.440850E+01	0.659900E+00	0.204710E+01	-0.526700E+00	0.156200E+00	0.207400E+00
10.400	-0.142460E+01	0.439970E+01	0.577300E+00	0.211330E+01	-0.523900E+00	0.122000E+00	0.202000E+00
10.600	-0.133530E+01	0.438210E+01	0.470300E+00	0.217930E+01	-0.515800E+00	0.954000E-01	0.189800E+00
10.800	-0.124300E+01	0.435590E+01	0.338900E+00	0.224140E+01	-0.502900E+00	0.796000E-01	0.171900E+00
11.000	-0.114960E+01	0.432150E+01	0.185800E+00	0.229520E+01	-0.485900E+00	0.770000E-01	0.150600E+00
11.200	-0.105640E+01	0.427980E+01	-0.174000E-01	0.233690E+01	-0.465600E+00	0.881000E-01	0.128500E+00
11.400	-0.964900E+00	0.423170E+01	-0.157200E+00	0.236410E+01	-0.443000E+00	0.110900E+00	0.108500E+00
11.600	-0.876400E+00	0.417810E+01	-0.328300E+00	0.237740E+01	-0.419200E+00	0.141600E+00	0.923000E-01
11.800	-0.791800E+00	0.412040E+01	-0.488300E+00	0.237900E+01	-0.395700E+00	0.176000E+00	0.811000E-01
12.000	-0.711900E+00	0.405970E+01	-0.632300E+00	0.237250E+01	-0.374200E+00	0.210400E+00	0.749000E-01
12.200	-0.637200E+00	0.399730E+01	-0.758500E+00	0.236110E+01	-0.356500E+00	0.242200E+00	0.729000E-01
12.400	-0.568100E+00	0.393430E+01	-0.867200E+00	0.234740E+01	-0.344400E+00	0.269900E+00	0.735000E-01
12.600	-0.504600E+00	0.387170E+01	-0.959600E+00	0.233280E+01	-0.340100E+00	0.292700E+00	0.754000E-01
12.800	-0.446700E+00	0.381050E+01	-0.103750E+01	0.231830E+01	-0.345600E+00	0.310500E+00	0.775000E-01
13.000	-0.394300E+00	0.375150E+01	-0.110250E+01	0.230380E+01	-0.363100E+00	0.323600E+00	0.793000E-01
13.200	-0.347100E+00	0.369550E+01	-0.115600E+01	0.228870E+01	-0.394900E+00	0.332400E+00	0.807000E-01
13.400	-0.304700E+00	0.364290E+01	-0.119930E+01	0.227200E+01	-0.443200E+00	0.337400E+00	0.818000E-01
13.600	-0.266900E+00	0.359420E+01	-0.123320E+01	0.225190E+01	-0.510500E+00	0.339200E+00	0.826000E-01
13.800	-0.233200E+00	0.354980E+01	-0.125860E+01	0.222560E+01	-0.598700E+00	0.338300E+00	0.834000E-01
14.000	-0.203300E+00	0.350980E+01	-0.127590E+01	0.218990E+01	-0.709000E+00	0.335300E+00	0.842000E-01
14.200	-0.176900E+00	0.347450E+01	-0.128570E+01	0.214110E+01	-0.840500E+00	0.330400E+00	0.852000E-01
14.400	-0.153500E+00	0.344370E+01	-0.128830E+01	0.207580E+01	-0.989000E+00	0.324100E+00	0.863000E-01
14.600	-0.132800E+00	0.341770E+01	-0.128390E+01	0.199320E+01	-0.114660E+01	0.316600E+00	0.876000E-01
15.000	-0.986000E-01	0.337880E+01	-0.125510E+01	0.178900E+01	-0.144770E+01	0.299400E+00	0.907000E-01
15.200	-0.845000E-01	0.336550E+01	-0.123110E+01	0.168040E+01	-0.157490E+01	0.290100E+00	0.925000E-01
15.800	-0.517000E-01	0.334640E+01	-0.112400E+01	0.139170E+01	-0.184330E+01	0.260900E+00	0.990000E-01
16.400	-0.295000E-01	0.334910E+01	-0.972900E+00	0.118240E+01	-0.199330E+01	0.232100E+00	0.106300E+00
16.600	-0.239000E-01	0.335260E+01	-0.915300E+00	0.112700E+01	-0.202820E+01	0.222900E+00	0.108900E+00
16.800	-0.189000E-01	0.335670E+01	-0.855200E+00	0.107700E+01	-0.205810E+01	0.214000E+00	0.111600E+00
17.000	-0.145000E-01	0.336090E+01	-0.793400E+00	0.103160E+01	-0.208420E+01	0.205400E+00	0.114300E+00
17.200	-0.107000E-01	0.336500E+01	-0.730600E+00	0.990000E+00	-0.210700E+01	0.197000E+00	0.117000E+00
17.400	-0.730000E-02	0.336880E+01	-0.667500E+00	0.951400E+00	-0.212730E+01	0.189000E+00	0.119700E+00
17.600	-0.440000E-02	0.337190E+01	-0.607400E+00	0.915500E+00	-0.214540E+01	0.181400E+00	0.122400E+00
17.800	-0.180000E-02	0.337440E+01	-0.542900E+00	0.881500E+00	-0.216180E+01	0.174000E+00	0.125200E+00
18.000	0.500000E-03	0.337610E+01	-0.482700E+00	0.849200E+00	-0.217660E+01	0.167000E+00	0.127900E+00

18.200	0.250000E-02	0.337700E+01	-0.424500E+00	0.818200E+00	-0.219010E+01	0.160200E+00	0.130600E+00
18.400	0.430000E-02	0.337720E+01	-0.368700E+00	0.788200E+00	-0.220260E+01	0.153800E+00	0.133300E+00
18.600	0.580000E-02	0.337660E+01	-0.315900E+00	0.759000E+00	-0.221400E+01	0.147600E+00	0.135900E+00
18.800	0.720000E-02	0.337550E+01	-0.266300E+00	0.730500E+00	-0.222460E+01	0.141800E+00	0.138600E+00
19.000	0.840000E-02	0.337370E+01	-0.220100E+00	0.702600E+00	-0.223440E+01	0.136200E+00	0.141200E+00
19.200	0.950000E-02	0.337150E+01	-0.177600E+00	0.675400E+00	-0.224350E+01	0.130800E+00	0.143800E+00
19.600	0.112000E-01	0.336570E+01	-0.103700E+00	0.623400E+00	-0.225990E+01	0.120900E+00	0.148900E+00
19.800	0.119000E-01	0.336240E+01	-0.724000E-01	0.598900E+00	-0.226730E+01	0.116300E+00	0.151400E+00
20.000	0.126000E-01	0.335880E+01	-0.447000E-01	0.575800E+00	-0.227420E+01	0.111900E+00	0.153800E+00
20.200	0.131000E-01	0.335500E+01	-0.203000E-01	0.554400E+00	-0.228050E+01	0.107700E+00	0.156300E+00
20.400	0.136000E-01	0.335110E+01	0.900000E-03	0.534800E+00	-0.228640E+01	0.103700E+00	0.158700E+00
20.600	0.140000E-01	0.334710E+01	0.193000E-01	0.517600E+00	-0.229170E+01	0.100000E+00	0.161000E+00
20.800	0.144000E-01	0.334310E+01	0.351000E-01	0.503200E+00	-0.229640E+01	0.964000E-01	0.163300E+00
21.000	0.147000E-01	0.333890E+01	0.485000E-01	0.492300E+00	-0.230050E+01	0.929000E-01	0.165600E+00
21.200	0.150000E-01	0.333480E+01	0.599000E-01	0.485900E+00	-0.230370E+01	0.897000E-01	0.167900E+00
21.400	0.152000E-01	0.333070E+01	0.695000E-01	0.485700E+00	-0.230570E+01	0.866000E-01	0.170100E+00
21.600	0.154000E-01	0.332660E+01	0.775000E-01	0.495000E+00	-0.230580E+01	0.837000E-01	0.172300E+00
21.800	0.156000E-01	0.332260E+01	0.842000E-01	0.520200E+00	-0.230250E+01	0.810000E-01	0.174400E+00
22.000	0.157000E-01	0.331850E+01	0.896000E-01	0.576900E+00	-0.229130E+01	0.784000E-01	0.176500E+00
22.200	0.158000E-01	0.331460E+01	0.941000E-01	0.712400E+00	-0.225530E+01	0.760000E-01	0.178500E+00
22.400	0.159000E-01	0.331070E+01	0.976000E-01	0.113450E+01	-0.207790E+01	0.737000E-01	0.180500E+00
22.600	0.160000E-01	0.330690E+01	0.100400E+00	0.214630E+01	-0.100490E+01	0.716000E-01	0.182500E+00
22.800	0.160000E-01	0.330320E+01	0.102500E+00	0.235460E+01	-0.289200E+00	0.696000E-01	0.184400E+00
23.000	0.161000E-01	0.329950E+01	0.104100E+00	0.237300E+01	-0.879000E-01	0.677000E-01	0.186300E+00
23.200	0.161000E-01	0.329590E+01	0.105200E+00	0.237710E+01	0.630000E-02	0.660000E-01	0.188100E+00
23.400	0.161000E-01	0.329250E+01	0.105900E+00	0.237920E+01	0.343000E-01	0.645000E-01	0.189900E+00
23.600	0.161000E-01	0.328910E+01	0.106200E+00	0.238120E+01	0.566000E-01	0.631000E-01	0.191700E+00
23.800	0.160000E-01	0.328580E+01	0.106300E+00	0.238320E+01	0.694000E-01	0.618000E-01	0.193400E+00
24.000	0.160000E-01	0.328250E+01	0.106100E+00	0.238530E+01	0.767000E-01	0.607000E-01	0.195100E+00
24.200	0.159000E-01	0.327940E+01	0.105700E+00	0.238750E+01	0.805000E-01	0.597000E-01	0.196800E+00
24.400	0.159000E-01	0.327640E+01	0.105100E+00	0.238970E+01	0.821000E-01	0.589000E-01	0.198400E+00
24.600	0.158000E-01	0.327340E+01	0.104300E+00	0.239190E+01	0.822000E-01	0.583000E-01	0.200000E+00
24.800	0.157000E-01	0.327050E+01	0.103500E+00	0.239410E+01	0.813000E-01	0.578000E-01	0.201500E+00
25.000	0.156000E-01	0.326770E+01	0.102500E+00	0.239630E+01	0.796000E-01	0.575000E-01	0.203100E+00
25.200	0.155000E-01	0.326500E+01	0.101400E+00	0.239840E+01	0.774000E-01	0.573000E-01	0.204500E+00
25.400	0.155000E-01	0.326240E+01	0.100200E+00	0.240060E+01	0.747000E-01	0.574000E-01	0.206000E+00
25.600	0.154000E-01	0.325980E+01	0.990000E-01	0.240260E+01	0.717000E-01	0.576000E-01	0.207400E+00
25.800	0.152000E-01	0.325740E+01	0.978000E-01	0.240470E+01	0.683000E-01	0.580000E-01	0.208700E+00
26.000	0.151000E-01	0.325490E+01	0.964000E-01	0.240670E+01	0.647000E-01	0.585000E-01	0.210100E+00
26.200	0.150000E-01	0.325260E+01	0.951000E-01	0.240860E+01	0.609000E-01	0.591000E-01	0.211300E+00
26.400	0.149000E-01	0.325030E+01	0.937000E-01	0.241050E+01	0.568000E-01	0.599000E-01	0.212600E+00
26.600	0.148000E-01	0.324810E+01	0.924000E-01	0.241240E+01	0.526000E-01	0.606000E-01	0.213800E+00
26.800	0.147000E-01	0.324600E+01	0.910000E-01	0.241420E+01	0.482000E-01	0.613000E-01	0.214900E+00
28.000	0.139000E-01	0.323420E+01	0.826000E-01	0.242410E+01	0.246000E-01	0.221100E+00	0.667000E-01
29.800	0.129000E-01	0.321960E+01	0.710000E-01	0.243620E+01	0.880000E-02	0.227700E+00	0.525000E-01
30.000	0.128000E-01	0.321830E+01	0.698000E-01	0.243750E+01	0.800000E-02	0.228200E+00	0.510000E-01
30.200	0.126000E-01	0.321690E+01	0.686000E-01	0.243860E+01	0.730000E-02	0.228800E+00	0.495000E-01
30.400	0.125000E-01	0.321550E+01	0.675000E-01	0.243980E+01	0.670000E-02	0.229300E+00	0.481000E-01
30.600	0.124000E-01	0.321420E+01	0.663000E-01	0.244090E+01	0.620000E-02	0.229800E+00	0.467000E-01
30.800	0.123000E-01	0.321270E+01	0.652000E-01	0.244180E+01	0.580000E-02	0.230200E+00	0.454000E-01

Table 2: $(2)^1\Sigma^+ - (2-7)^1\Sigma^+$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.200	0.140000E+00	0.629000E-01	0.101740E+01	0.313380E+01	0.167600E+00	0.136920E+01
3.400	0.358200E+00	0.218500E+00	0.103360E+01	0.293840E+01	0.590800E+00	0.165180E+01
3.600	0.535500E+00	0.517900E+00	0.121110E+01	0.274190E+01	0.652800E+00	0.194990E+01
3.800	0.659700E+00	0.846400E+00	0.132360E+01	0.262430E+01	0.510200E+00	0.218760E+01
4.200	0.729400E+00	0.153570E+01	0.963100E+00	0.264690E+01	0.137000E+00	0.231490E+01
4.600	0.535500E+00	0.205160E+01	0.650000E-02	0.266960E+01	-0.885000E-01	0.205970E+01
4.800	0.386500E+00	0.220780E+01	-0.496500E+00	0.254710E+01	-0.147900E+00	0.196050E+01
5.000	0.259800E+00	0.231290E+01	-0.867400E+00	0.236790E+01	-0.185000E+00	0.186560E+01
5.200	0.178000E+00	0.239320E+01	-0.110940E+01	0.219190E+01	-0.197700E+00	0.176220E+01
5.400	0.138600E+00	0.246870E+01	-0.124820E+01	0.205300E+01	-0.183800E+00	0.166010E+01
5.600	0.127900E+00	0.254790E+01	-0.130940E+01	0.196070E+01	-0.147100E+00	0.157100E+01
5.800	0.132300E+00	0.263100E+01	-0.131040E+01	0.191270E+01	-0.943000E-01	0.150030E+01
6.000	0.141700E+00	0.271390E+01	-0.126270E+01	0.190310E+01	-0.321000E-01	0.145040E+01
6.200	0.149400E+00	0.279160E+01	-0.117390E+01	0.192540E+01	0.347000E-01	0.142010E+01
6.400	0.151300E+00	0.285920E+01	-0.105020E+01	0.197390E+01	0.103100E+00	0.140870E+01
6.600	0.144700E+00	0.291290E+01	-0.895900E+00	0.204300E+01	0.171200E+00	0.141540E+01
6.800	0.127900E+00	0.295060E+01	-0.714000E+00	0.212680E+01	0.238400E+00	0.144010E+01
7.000	0.995000E-01	0.297130E+01	-0.506000E+00	0.221930E+01	0.304500E+00	0.148230E+01
7.200	0.586000E-01	0.297550E+01	-0.273200E+00	0.231340E+01	0.369700E+00	0.154200E+01
7.400	0.400000E-02	0.296440E+01	0.179000E-01	0.240180E+01	0.434600E+00	0.161820E+01
7.600	-0.653000E-01	0.293950E+01	0.255500E+00	0.247780E+01	0.500100E+00	0.170930E+01
7.800	-0.150200E+00	0.290300E+01	0.539400E+00	0.253680E+01	0.567100E+00	0.181220E+01
8.200	-0.370800E+00	0.280400E+01	0.110130E+01	0.260140E+01	0.710700E+00	0.203420E+01
8.400	-0.508100E+00	0.274660E+01	0.136200E+01	0.261300E+01	0.790100E+00	0.214070E+01
8.600	-0.664200E+00	0.268770E+01	0.160120E+01	0.261730E+01	0.877000E+00	0.223660E+01
8.800	-0.839100E+00	0.263030E+01	0.181590E+01	0.261870E+01	0.973300E+00	0.231690E+01
9.000	-0.103270E+01	0.257760E+01	0.200490E+01	0.262100E+01	0.108120E+01	0.237900E+01
9.200	-0.124430E+01	0.253290E+01	0.216790E+01	0.262670E+01	0.120310E+01	0.242070E+01
9.400	-0.147260E+01	0.249990E+01	0.230470E+01	0.263760E+01	0.134160E+01	0.244050E+01
9.600	-0.171620E+01	0.248210E+01	0.241560E+01	0.265480E+01	0.149910E+01	0.243590E+01
9.800	-0.197290E+01	0.248310E+01	0.250030E+01	0.267910E+01	0.167770E+01	0.240320E+01
10.000	-0.224040E+01	0.250630E+01	0.255830E+01	0.271090E+01	0.187780E+01	0.233770E+01
10.200	-0.251580E+01	0.255470E+01	0.258820E+01	0.275060E+01	0.209640E+01	0.223250E+01
10.400	-0.279630E+01	0.263050E+01	0.258860E+01	0.279810E+01	0.232480E+01	0.208320E+01
10.600	-0.307880E+01	0.273390E+01	0.255800E+01	0.285330E+01	0.254620E+01	0.189040E+01
10.800	-0.336030E+01	0.286270E+01	0.249610E+01	0.291540E+01	0.273820E+01	0.166530E+01
11.000	-0.363800E+01	0.301130E+01	0.240500E+01	0.298340E+01	0.287850E+01	0.142880E+01
11.200	-0.390900E+01	0.317120E+01	0.229120E+01	0.305570E+01	0.295250E+01	0.120510E+01
11.400	-0.417090E+01	0.333340E+01	0.216480E+01	0.313000E+01	0.295730E+01	0.101430E+01
11.600	-0.442140E+01	0.349030E+01	0.203820E+01	0.320360E+01	0.290030E+01	0.868500E+00
11.800	-0.465850E+01	0.363810E+01	0.192280E+01	0.327350E+01	0.279490E+01	0.772000E+00
12.000	-0.488060E+01	0.377600E+01	0.182680E+01	0.333690E+01	0.265570E+01	0.722600E+00
12.200	-0.508620E+01	0.390580E+01	0.175510E+01	0.339070E+01	0.249570E+01	0.711500E+00
12.400	-0.527410E+01	0.403010E+01	0.170970E+01	0.343250E+01	0.232490E+01	0.726400E+00
12.600	-0.544330E+01	0.415140E+01	0.169100E+01	0.346030E+01	0.215030E+01	0.754500E+00
12.800	-0.559290E+01	0.427200E+01	0.169870E+01	0.347220E+01	0.197660E+01	0.786100E+00
13.000	-0.572210E+01	0.439330E+01	0.173250E+01	0.346660E+01	0.180660E+01	0.815700E+00
13.200	-0.583010E+01	0.451660E+01	0.179230E+01	0.344140E+01	0.164200E+01	0.841100E+00
13.400	-0.591630E+01	0.464250E+01	0.187850E+01	0.339410E+01	0.148320E+01	0.862000E+00
13.600	-0.597990E+01	0.477100E+01	0.199120E+01	0.332160E+01	0.133020E+01	0.878900E+00
13.800	-0.602030E+01	0.490210E+01	0.213000E+01	0.321950E+01	0.118270E+01	0.892800E+00
14.000	-0.603660E+01	0.503510E+01	0.229290E+01	0.308340E+01	0.103990E+01	0.904600E+00
14.200	-0.602830E+01	0.516920E+01	0.247440E+01	0.290920E+01	0.901000E+00	0.915400E+00
14.400	-0.599470E+01	0.530330E+01	0.266440E+01	0.269620E+01	0.765100E+00	0.925700E+00
14.600	-0.593530E+01	0.543570E+01	0.284860E+01	0.244950E+01	0.631500E+00	0.935900E+00
15.000	-0.573840E+01	0.568870E+01	0.314100E+01	0.190750E+01	0.368400E+00	0.957400E+00
15.200	-0.560120E+01	0.580490E+01	0.323240E+01	0.164470E+01	0.237700E+00	0.969000E+00
15.800	-0.504540E+01	0.608400E+01	0.330930E+01	0.100390E+01	0.153800E+00	0.100600E+01
16.400	-0.431900E+01	0.621130E+01	0.321220E+01	0.588300E+00	0.542000E+00	0.104320E+01
16.600	-0.405390E+01	0.621240E+01	0.316270E+01	0.487300E+00	0.669100E+00	0.105440E+01
16.800	-0.378390E+01	0.619170E+01	0.310980E+01	0.400500E+00	0.794100E+00	0.106460E+01
17.000	-0.351300E+01	0.615000E+01	0.305620E+01	0.326400E+00	0.915800E+00	0.107370E+01
17.200	-0.324510E+01	0.608800E+01	0.300370E+01	0.262800E+00	0.103420E+01	0.108160E+01
17.400	-0.298350E+01	0.600740E+01	0.295390E+01	0.208300E+00	0.114860E+01	0.108810E+01
17.600	-0.273140E+01	0.591030E+01	0.290810E+01	0.161800E+00	0.125840E+01	0.109300E+01
17.800	-0.249090E+01	0.579900E+01	0.286720E+01	0.122300E+00	0.136330E+01	0.109630E+01
18.000	-0.226400E+01	0.567620E+01	0.283160E+01	0.889000E-01	0.146300E+01	0.109810E+01
18.200	-0.205180E+01	0.554450E+01	0.280120E+01	0.609000E-01	0.155740E+01	0.109830E+01
18.400	-0.185490E+01	0.540660E+01	0.277560E+01	0.375000E-01	0.164640E+01	0.109720E+01
18.600	-0.167350E+01	0.526510E+01	0.275400E+01	0.182000E-01	0.173000E+01	0.109460E+01
18.800	-0.150740E+01	0.512250E+01	0.273550E+01	0.250000E-02	0.180840E+01	0.109070E+01
19.000	-0.135600E+01	0.498100E+01	0.271870E+01	-0.101000E-01	0.188170E+01	0.108550E+01
19.200	-0.121860E+01	0.484270E+01	0.270260E+01	-0.198000E-01	0.195000E+01	0.107920E+01
19.600	-0.982500E+00	0.458200E+01	0.266790E+01	-0.319000E-01	0.207300E+01	0.106340E+01
19.800	-0.881800E+00	0.446220E+01	0.264780E+01	-0.348000E-01	0.212800E+01	0.105410E+01
20.000	-0.791400E+00	0.435040E+01	0.262530E+01	-0.357000E-01	0.217900E+01	0.104400E+01

20.200	-0.710300E+00	0.424720E+01	0.260020E+01	-0.348000E-01	0.222630E+01	0.103300E+01
20.400	-0.637600E+00	0.415250E+01	0.257280E+01	-0.319000E-01	0.227000E+01	0.102130E+01
20.600	-0.572500E+00	0.406620E+01	0.254320E+01	-0.269000E-01	0.231040E+01	0.100910E+01
20.800	-0.514300E+00	0.398820E+01	0.251200E+01	-0.197000E-01	0.234760E+01	0.996100E+00
21.000	-0.462100E+00	0.391780E+01	0.247940E+01	-0.950000E-02	0.238190E+01	0.982500E+00
21.200	-0.415300E+00	0.385460E+01	0.244610E+01	0.430000E-02	0.241330E+01	0.968300E+00
21.400	-0.373400E+00	0.379800E+01	0.241240E+01	0.235000E-01	0.244200E+01	0.953500E+00
21.600	-0.335700E+00	0.374740E+01	0.237870E+01	0.510000E-01	0.246800E+01	0.938200E+00
21.800	-0.301900E+00	0.370230E+01	0.234470E+01	0.932000E-01	0.249160E+01	0.922300E+00
22.000	-0.271600E+00	0.366210E+01	0.230920E+01	0.165000E+00	0.251260E+01	0.906000E+00
22.200	-0.244200E+00	0.362620E+01	0.226350E+01	0.313300E+00	0.253130E+01	0.889300E+00
22.400	-0.219600E+00	0.359420E+01	0.212930E+01	0.748300E+00	0.254750E+01	0.872000E+00
22.600	-0.197300E+00	0.356570E+01	0.124740E+01	0.184960E+01	0.256140E+01	0.854400E+00
22.800	-0.177200E+00	0.354020E+01	0.592300E+00	0.212650E+01	0.257280E+01	0.836500E+00
23.000	-0.159000E+00	0.351750E+01	0.392700E+00	0.215130E+01	0.258180E+01	0.818200E+00
23.200	-0.142500E+00	0.349710E+01	0.303800E+00	0.214790E+01	0.258820E+01	0.799600E+00
23.400	-0.127600E+00	0.347890E+01	0.253600E+00	0.214010E+01	0.259190E+01	0.780800E+00
23.600	-0.114000E+00	0.346250E+01	0.221100E+00	0.213330E+01	0.259280E+01	0.761700E+00
23.800	-0.101700E+00	0.344780E+01	0.198000E+00	0.212910E+01	0.259070E+01	0.742500E+00
24.000	-0.905000E-01	0.343450E+01	0.180600E+00	0.212860E+01	0.258520E+01	0.723100E+00
24.200	-0.803000E-01	0.342260E+01	0.166900E+00	0.213260E+01	0.257610E+01	0.703700E+00
24.400	-0.711000E-01	0.341180E+01	0.155700E+00	0.214150E+01	0.256300E+01	0.684200E+00
24.600	-0.626000E-01	0.340200E+01	0.146300E+00	0.215590E+01	0.254530E+01	0.664600E+00
24.800	-0.550000E-01	0.339310E+01	0.138200E+00	0.217640E+01	0.252230E+01	0.645100E+00
25.000	-0.480000E-01	0.338500E+01	0.131100E+00	0.220350E+01	0.249350E+01	0.625600E+00
25.200	-0.416000E-01	0.337760E+01	0.124800E+00	0.223770E+01	0.245770E+01	0.606300E+00
25.400	-0.358000E-01	0.337080E+01	0.119200E+00	0.227950E+01	0.241400E+01	0.586900E+00
25.600	-0.305000E-01	0.336460E+01	0.114100E+00	0.232940E+01	0.236110E+01	0.567900E+00
25.800	-0.257000E-01	0.335890E+01	0.109400E+00	0.238740E+01	0.229780E+01	0.549100E+00
26.000	-0.213000E-01	0.335370E+01	0.105100E+00	0.245330E+01	0.222270E+01	0.530500E+00
26.200	-0.174000E-01	0.334890E+01	0.101100E+00	0.252640E+01	0.213480E+01	0.512200E+00
26.400	-0.138000E-01	0.334450E+01	0.974000E-01	0.260510E+01	0.203340E+01	0.494000E+00
26.600	-0.105000E-01	0.334030E+01	0.940000E-01	0.268760E+01	0.191870E+01	0.476300E+00
26.800	-0.750000E-02	0.333650E+01	0.907000E-01	0.277080E+01	0.179190E+01	0.458700E+00
28.000	0.530000E-02	0.331850E+01	0.746000E-01	0.314190E+01	0.363600E+00	0.206350E+01
29.800	0.141000E-01	0.330150E+01	0.575000E-01	0.326280E+01	0.250400E+00	0.205080E+01
30.000	0.146000E-01	0.330000E+01	0.559000E-01	0.326510E+01	0.240500E+00	0.204750E+01
30.200	0.150000E-01	0.329870E+01	0.544000E-01	0.326670E+01	0.230600E+00	0.204520E+01
30.400	0.154000E-01	0.329740E+01	0.530000E-01	0.326780E+01	0.220900E+00	0.204300E+01
30.600	0.157000E-01	0.329620E+01	0.516000E-01	0.326840E+01	0.211800E+00	0.204060E+01
30.800	0.160000E-01	0.329500E+01	0.503000E-01	0.326890E+01	0.203100E+00	0.203820E+01

Table 3: $(3)^1\Sigma^+-(3-7)^1\Sigma^+$ transitions

R	3-3	3-4	3-5	3-6	3-7
3.200	0.323900E+00	-0.262000E-01	-0.136830E+01	0.203380E+01	0.156490E+01
3.400	0.290900E+00	-0.132300E+00	-0.110120E+01	0.233500E+01	0.151200E+01
3.600	0.162800E+00	-0.211300E+00	-0.103390E+01	0.238440E+01	0.162300E+01
3.800	-0.241000E-01	0.229400E+00	-0.108100E+01	0.232970E+01	0.174560E+01
4.200	-0.310800E+00	0.439500E+00	-0.925100E+00	0.204300E+01	0.159740E+01
4.600	0.100000E-02	0.838300E+00	-0.152200E+00	0.163090E+01	0.623700E+00
4.800	0.344600E+00	0.922400E+00	0.331200E+00	0.146330E+01	0.203200E+00
5.000	0.707100E+00	0.939400E+00	0.761900E+00	0.134060E+01	0.130400E+00
5.200	0.103320E+01	0.952700E+00	0.111270E+01	0.125740E+01	0.384300E+00
5.400	0.130080E+01	0.100520E+01	0.139510E+01	0.120350E+01	0.557900E+00
5.600	0.150580E+01	0.111290E+01	0.162690E+01	0.117190E+01	0.653900E+00
5.800	0.164920E+01	0.127520E+01	0.181870E+01	0.116040E+01	0.677600E+00
6.000	0.173420E+01	0.148250E+01	0.197280E+01	0.116930E+01	0.643100E+00
6.200	0.176540E+01	0.172040E+01	0.208620E+01	0.119960E+01	0.556800E+00
6.400	0.175010E+01	0.197300E+01	0.215370E+01	0.125020E+01	0.430300E+00
6.600	0.169790E+01	0.222610E+01	0.217020E+01	0.131850E+01	0.272300E+00
6.800	0.161930E+01	0.246770E+01	0.213240E+01	0.140150E+01	0.904000E-01
7.000	0.152460E+01	0.268880E+01	0.203950E+01	0.149560E+01	-0.111100E+00
7.200	0.142270E+01	0.288190E+01	0.189360E+01	0.159810E+01	-0.328100E+00
7.400	0.132060E+01	0.304050E+01	0.170140E+01	0.170650E+01	-0.557600E+00
7.600	0.122380E+01	0.315830E+01	0.147390E+01	0.181920E+01	-0.796800E+00
7.800	0.113620E+01	0.323070E+01	0.122630E+01	0.193530E+01	-0.104060E+01
8.200	0.999900E+00	0.323740E+01	0.738000E+00	0.217600E+01	-0.151410E+01
8.400	0.955300E+00	0.317980E+01	0.525000E+00	0.230080E+01	-0.172400E+01
8.600	0.928500E+00	0.309100E+01	0.343600E+00	0.242900E+01	-0.190280E+01
8.800	0.920700E+00	0.297890E+01	0.196600E+00	0.256120E+01	-0.204210E+01
9.000	0.932900E+00	0.285060E+01	0.837000E-01	0.269780E+01	-0.213550E+01
9.200	0.965700E+00	0.271210E+01	0.260000E-02	0.283890E+01	-0.217840E+01
9.400	0.101960E+01	0.256810E+01	-0.493000E-01	0.298380E+01	-0.216690E+01
9.600	0.109470E+01	0.242220E+01	-0.755000E-01	0.313100E+01	-0.209670E+01
9.800	0.119070E+01	0.227650E+01	-0.797000E-01	0.327700E+01	-0.196340E+01
10.000	0.130680E+01	0.213200E+01	-0.656000E-01	0.341490E+01	-0.176190E+01
10.200	0.144120E+01	0.198820E+01	-0.381000E-01	0.353450E+01	-0.149130E+01
10.400	0.159080E+01	0.184350E+01	0.260000E-02	0.362140E+01	-0.115700E+01
10.600	0.175040E+01	0.169490E+01	0.340000E-01	0.366050E+01	-0.777800E+00
10.800	0.191180E+01	0.153920E+01	0.630000E-01	0.364390E+01	-0.385800E+00
11.000	0.206360E+01	0.137470E+01	0.752000E-01	0.357870E+01	-0.198000E-01
11.200	0.219350E+01	0.120230E+01	0.610000E-01	0.348790E+01	0.289400E+00
11.400	0.229040E+01	0.102640E+01	-0.133000E-01	0.339980E+01	0.528400E+00
11.600	0.234800E+01	0.853500E+00	-0.711000E-01	0.333610E+01	0.700700E+00
11.800	0.236550E+01	0.688900E+00	-0.191500E+00	0.330560E+01	0.819300E+00
12.000	0.234650E+01	0.535300E+00	-0.343300E+00	0.330590E+01	0.899400E+00
12.200	0.229620E+01	0.392300E+00	-0.520500E+00	0.332920E+01	0.954000E+00
12.400	0.221960E+01	0.256800E+00	-0.716100E+00	0.336670E+01	0.992900E+00
12.600	0.212110E+01	0.124700E+00	-0.923700E+00	0.341110E+01	0.102200E+01
12.800	0.200340E+01	-0.920000E-02	-0.113720E+01	0.345750E+01	0.104470E+01
13.000	0.186870E+01	-0.150100E+00	-0.135130E+01	0.350260E+01	0.106270E+01
13.200	0.171810E+01	-0.303600E+00	-0.156100E+01	0.354490E+01	0.107640E+01
13.400	0.155230E+01	-0.475400E+00	-0.176120E+01	0.358350E+01	0.108610E+01
13.600	0.137150E+01	-0.671800E+00	-0.194620E+01	0.361820E+01	0.109190E+01
13.800	0.117590E+01	-0.898700E+00	-0.210930E+01	0.364900E+01	0.109380E+01
14.000	0.965600E+00	-0.116110E+01	-0.224230E+01	0.367600E+01	0.109200E+01
14.200	0.740600E+00	-0.146140E+01	-0.233600E+01	0.369930E+01	0.108640E+01
14.400	0.501200E+00	-0.179700E+01	-0.238180E+01	0.371890E+01	0.107730E+01
14.600	0.247700E+00	-0.215880E+01	-0.237540E+01	0.373480E+01	0.106470E+01
15.000	-0.298300E+00	-0.290190E+01	-0.222330E+01	0.375470E+01	0.103020E+01
15.200	-0.588000E+00	-0.325570E+01	-0.210200E+01	0.375820E+01	0.100840E+01
15.800	-0.149550E+01	-0.418500E+01	-0.170370E+01	0.373860E+01	0.927900E+00
16.400	-0.237750E+01	-0.494240E+01	-0.135980E+01	0.366550E+01	0.829100E+00
16.600	-0.264130E+01	-0.516410E+01	-0.126070E+01	0.362710E+01	0.793900E+00
16.800	-0.287970E+01	-0.537100E+01	-0.116800E+01	0.358120E+01	0.758100E+00
17.000	-0.308690E+01	-0.556230E+01	-0.108180E+01	0.352780E+01	0.721700E+00
17.200	-0.325700E+01	-0.573630E+01	-0.100050E+01	0.346640E+01	0.685500E+00
17.400	-0.338510E+01	-0.589100E+01	-0.923900E+00	0.339680E+01	0.649800E+00
17.600	-0.346740E+01	-0.602390E+01	-0.851500E+00	0.331920E+01	0.614900E+00
17.800	-0.350180E+01	-0.613170E+01	-0.782900E+00	0.323340E+01	0.581100E+00
18.000	-0.348750E+01	-0.621140E+01	-0.718000E+00	0.313970E+01	0.548900E+00
18.200	-0.342600E+01	-0.625960E+01	-0.656500E+00	0.303850E+01	0.518600E+00
18.400	-0.332050E+01	-0.627350E+01	-0.598400E+00	0.293020E+01	0.490500E+00
18.600	-0.317630E+01	-0.625090E+01	-0.543800E+00	0.281580E+01	0.464700E+00
18.800	-0.300020E+01	-0.619100E+01	-0.492600E+00	0.269620E+01	0.441500E+00
19.000	-0.280020E+01	-0.609400E+01	-0.445000E+00	0.257290E+01	0.421000E+00
19.200	-0.258460E+01	-0.596210E+01	-0.401200E+00	0.244720E+01	0.403400E+00
19.600	-0.213910E+01	-0.560840E+01	-0.325200E+00	0.219530E+01	0.376700E+00
19.800	-0.192310E+01	-0.539670E+01	-0.293200E+00	0.207210E+01	0.367400E+00
20.000	-0.171840E+01	-0.516940E+01	-0.265300E+00	0.195250E+01	0.360700E+00

20.200	-0.152840E+01	-0.493220E+01	-0.241500E+00	0.183770E+01	0.356300E+00
20.400	-0.135510E+01	-0.469020E+01	-0.221800E+00	0.172830E+01	0.354100E+00
20.600	-0.119900E+01	-0.444780E+01	-0.206300E+00	0.162490E+01	0.353800E+00
20.800	-0.106020E+01	-0.420890E+01	-0.195400E+00	0.152800E+01	0.355200E+00
21.000	-0.937800E+00	-0.397610E+01	-0.189500E+00	0.143750E+01	0.358100E+00
21.200	-0.830600E+00	-0.375150E+01	-0.189400E+00	0.135340E+01	0.362500E+00
21.400	-0.737300E+00	-0.353620E+01	-0.196700E+00	0.127560E+01	0.368000E+00
21.600	-0.656300E+00	-0.333080E+01	-0.214800E+00	0.120380E+01	0.374500E+00
21.800	-0.586300E+00	-0.313470E+01	-0.250500E+00	0.113770E+01	0.381700E+00
22.000	-0.525800E+00	-0.294550E+01	-0.320500E+00	0.107700E+01	0.389800E+00
22.200	-0.473700E+00	-0.275090E+01	-0.476600E+00	0.102140E+01	0.398400E+00
22.400	-0.428700E+00	-0.245440E+01	-0.948700E+00	0.970500E+00	0.407700E+00
22.600	-0.389900E+00	-0.132970E+01	-0.209450E+01	0.924100E+00	0.417200E+00
22.800	-0.356500E+00	-0.572400E+00	-0.226900E+01	0.881800E+00	0.427100E+00
23.000	-0.327500E+00	-0.350400E+00	-0.218010E+01	0.843400E+00	0.437300E+00
23.200	-0.302500E+00	-0.255200E+00	-0.206870E+01	0.808700E+00	0.447800E+00
23.400	-0.280800E+00	-0.203700E+00	-0.195790E+01	0.777500E+00	0.458400E+00
23.600	-0.262000E+00	-0.171900E+00	-0.185170E+01	0.749500E+00	0.469200E+00
23.800	-0.245600E+00	-0.150500E+00	-0.175100E+01	0.724600E+00	0.480100E+00
24.000	-0.231300E+00	-0.135200E+00	-0.165570E+01	0.702700E+00	0.491000E+00
24.200	-0.218800E+00	-0.123700E+00	-0.156560E+01	0.683700E+00	0.502000E+00
24.400	-0.207900E+00	-0.114800E+00	-0.148010E+01	0.667500E+00	0.513100E+00
24.600	-0.198300E+00	-0.107600E+00	-0.139900E+01	0.654100E+00	0.524100E+00
24.800	-0.189700E+00	-0.101700E+00	-0.132170E+01	0.643300E+00	0.535000E+00
25.000	-0.182200E+00	-0.967000E-01	-0.124770E+01	0.635200E+00	0.546000E+00
25.200	-0.175500E+00	-0.925000E-01	-0.117660E+01	0.629800E+00	0.556800E+00
25.400	-0.169600E+00	-0.888000E-01	-0.110800E+01	0.626800E+00	0.567400E+00
25.600	-0.164200E+00	-0.855000E-01	-0.104120E+01	0.626400E+00	0.578000E+00
25.800	-0.159400E+00	-0.825000E-01	-0.975900E+00	0.628200E+00	0.588500E+00
26.000	-0.155000E+00	-0.799000E-01	-0.911700E+00	0.632000E+00	0.598700E+00
26.200	-0.151100E+00	-0.774000E-01	-0.848200E+00	0.637300E+00	0.608800E+00
26.400	-0.147500E+00	-0.752000E-01	-0.785300E+00	0.643600E+00	0.618800E+00
26.600	-0.144200E+00	-0.731000E-01	-0.723100E+00	0.650100E+00	0.628400E+00
26.800	-0.141100E+00	-0.711000E-01	-0.661800E+00	0.656100E+00	0.637400E+00
28.000	-0.126800E+00	-0.615000E-01	-0.353000E+00	0.689900E+00	0.245000E-01
29.800	-0.111900E+00	-0.509000E-01	-0.152800E+00	0.749600E+00	0.336000E-01
30.000	-0.110500E+00	-0.499000E-01	-0.142400E+00	0.754800E+00	0.370000E-01
30.200	-0.109100E+00	-0.489000E-01	-0.133300E+00	0.759900E+00	0.403000E-01
30.400	-0.107800E+00	-0.480000E-01	-0.125300E+00	0.764700E+00	0.431000E-01
30.600	-0.106500E+00	-0.471000E-01	-0.118200E+00	0.769300E+00	0.457000E-01
30.800	-0.105200E+00	-0.462000E-01	-0.111900E+00	0.773600E+00	0.479000E-01

Table 4: $(4)^1\Sigma^+ - (4-7)^1\Sigma^+$ transitions

R	4-4	4-5	4-6	4-7
3.200	-0.476000E-01	0.933000E-01	-0.346480E+01	0.540700E+00
3.400	-0.712100E+00	0.694000E-01	-0.343580E+01	0.813300E+00
3.600	-0.134840E+01	-0.460000E-01	-0.294840E+01	0.138410E+01
3.800	-0.176060E+01	-0.354400E+00	-0.245060E+01	0.179100E+01
4.200	-0.238770E+01	-0.919500E+00	-0.242100E+01	0.243230E+01
4.600	-0.349070E+01	-0.714100E+00	-0.306630E+01	0.288240E+01
4.800	-0.399100E+01	-0.278400E+00	-0.334600E+01	0.291060E+01
5.000	-0.431790E+01	-0.160100E+00	-0.351730E+01	0.290180E+01
5.200	-0.450470E+01	-0.484900E+00	-0.360930E+01	0.287490E+01
5.400	-0.460100E+01	-0.673000E+00	-0.366260E+01	0.284000E+01
5.600	-0.463620E+01	-0.739800E+00	-0.369890E+01	0.280800E+01
5.800	-0.462250E+01	-0.706000E+00	-0.372450E+01	0.278990E+01
6.000	-0.456420E+01	-0.589000E+00	-0.373820E+01	0.278640E+01
6.200	-0.446160E+01	-0.402700E+00	-0.373600E+01	0.280130E+01
6.400	-0.431430E+01	-0.159000E+00	-0.371250E+01	0.283050E+01
6.600	-0.412170E+01	-0.130500E+00	-0.366100E+01	0.287030E+01
6.800	-0.388220E+01	-0.454200E+00	-0.357450E+01	0.291620E+01
7.000	-0.359280E+01	-0.798600E+00	-0.344660E+01	0.296380E+01
7.200	-0.325060E+01	-0.114740E+01	-0.327280E+01	0.300770E+01
7.400	-0.285520E+01	-0.148080E+01	-0.305290E+01	0.304110E+01
7.600	-0.241240E+01	-0.177690E+01	-0.279320E+01	0.305690E+01
7.800	-0.193720E+01	-0.201630E+01	-0.250670E+01	0.304930E+01
8.200	-0.978600E+00	-0.228810E+01	-0.192720E+01	0.295370E+01
8.400	-0.539100E+00	-0.232770E+01	-0.166950E+01	0.287280E+01
8.600	-0.145600E+00	-0.231910E+01	-0.144930E+01	0.277890E+01
8.800	0.196200E+00	-0.227600E+01	-0.127220E+01	0.267950E+01
9.000	0.485800E+00	-0.221000E+01	-0.114010E+01	0.258040E+01
9.200	0.725100E+00	-0.212910E+01	-0.105210E+01	0.248380E+01
9.400	0.917300E+00	-0.203820E+01	-0.100640E+01	0.238990E+01
9.600	0.106560E+01	-0.193980E+01	-0.100050E+01	0.229540E+01
9.800	0.117270E+01	-0.183430E+01	-0.103070E+01	0.219540E+01
10.000	0.124140E+01	-0.172060E+01	-0.109150E+01	0.208170E+01
10.200	0.127440E+01	-0.159710E+01	-0.117360E+01	0.194630E+01
10.400	0.127510E+01	-0.146150E+01	-0.126110E+01	0.178210E+01
10.600	0.124870E+01	-0.131190E+01	-0.133060E+01	0.158740E+01
10.800	0.120310E+01	-0.114710E+01	-0.135420E+01	0.137150E+01
11.000	0.114840E+01	-0.967300E+00	-0.130900E+01	0.115550E+01
11.200	0.109630E+01	-0.774600E+00	-0.118690E+01	0.968400E+00
11.400	0.105640E+01	-0.572500E+00	-0.999200E+00	0.839700E+00
11.600	0.103340E+01	-0.365000E+00	-0.770100E+00	0.791600E+00
11.800	0.102630E+01	-0.155300E+00	-0.525900E+00	0.833200E+00
12.000	0.102970E+01	0.552000E-01	-0.286200E+00	0.954800E+00
12.200	0.103580E+01	0.266600E+00	-0.617000E-01	0.112850E+01
12.400	0.103680E+01	0.480300E+00	0.145000E+00	0.131760E+01
12.600	0.102510E+01	0.698400E+00	0.335500E+00	0.149070E+01
12.800	0.993400E+00	0.923600E+00	0.514400E+00	0.163050E+01
13.000	0.934500E+00	0.115890E+01	0.686800E+00	0.173350E+01
13.200	0.840300E+00	0.140680E+01	0.858400E+00	0.180420E+01
13.400	0.701200E+00	0.166940E+01	0.103460E+01	0.184970E+01
13.600	0.505600E+00	0.194650E+01	0.122010E+01	0.187720E+01
13.800	0.240000E+00	0.223450E+01	0.141870E+01	0.189190E+01
14.000	-0.109400E+00	0.252300E+01	0.163170E+01	0.189650E+01
14.200	-0.552700E+00	0.279310E+01	0.185720E+01	0.189150E+01
14.400	-0.108910E+01	0.301730E+01	0.208780E+01	0.187480E+01
14.600	-0.169920E+01	0.316580E+01	0.231170E+01	0.184320E+01
15.000	-0.298790E+01	0.317720E+01	0.268770E+01	0.172980E+01
15.200	-0.357570E+01	0.306050E+01	0.282540E+01	0.165210E+01
15.800	-0.499250E+01	0.252910E+01	0.307120E+01	0.138890E+01
16.400	-0.606530E+01	0.204710E+01	0.320340E+01	0.114220E+01
16.600	-0.640320E+01	0.191850E+01	0.324420E+01	0.106940E+01
16.800	-0.674650E+01	0.180510E+01	0.328760E+01	0.100150E+01
17.000	-0.710290E+01	0.170580E+01	0.333580E+01	0.937900E+00
17.200	-0.747700E+01	0.161880E+01	0.338910E+01	0.878800E+00
17.400	-0.787340E+01	0.154260E+01	0.344860E+01	0.823800E+00
17.600	-0.829510E+01	0.147610E+01	0.351440E+01	0.772500E+00
17.800	-0.874350E+01	0.141820E+01	0.358670E+01	0.724600E+00
18.000	-0.921880E+01	0.136770E+01	0.366500E+01	0.679900E+00
18.200	-0.971960E+01	0.132370E+01	0.374880E+01	0.638300E+00
18.400	-0.102426E+02	0.128570E+01	0.383740E+01	0.599300E+00
18.600	-0.107832E+02	0.125290E+01	0.392990E+01	0.562800E+00
18.800	-0.113351E+02	0.122490E+01	0.402520E+01	0.528600E+00
19.000	-0.118914E+02	0.120140E+01	0.412220E+01	0.496400E+00
19.200	-0.124446E+02	0.118250E+01	0.422020E+01	0.466500E+00
19.600	-0.135135E+02	0.115850E+01	0.441590E+01	0.412100E+00
19.800	-0.140175E+02	0.115420E+01	0.451310E+01	0.387600E+00
20.000	-0.144954E+02	0.115600E+01	0.460970E+01	0.364900E+00

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3 20.200 -0.149447E+02 0.116520E+01 0.470590E+01 0.344000E+00
4 20.400 -0.153641E+02 0.118310E+01 0.480240E+01 0.325100E+00
5 20.600 -0.157529E+02 0.121210E+01 0.489940E+01 0.307700E+00
6 20.800 -0.161119E+02 0.125570E+01 0.499790E+01 0.292600E+00
7 21.000 -0.164409E+02 0.131870E+01 0.509820E+01 0.279500E+00
8 21.200 -0.167401E+02 0.140930E+01 0.520130E+01 0.268700E+00
9 21.400 -0.170079E+02 0.154090E+01 0.530710E+01 0.260100E+00
10 21.600 -0.172391E+02 0.173830E+01 0.541540E+01 0.254100E+00
11 21.800 -0.174193E+02 0.205160E+01 0.552420E+01 0.250700E+00
12 22.000 -0.175026E+02 0.259950E+01 0.562560E+01 0.250000E+00
13 22.200 -0.172952E+02 0.373020E+01 0.568540E+01 0.251600E+00
14 22.400 -0.153640E+02 0.672400E+01 0.543940E+01 0.247900E+00
15 22.600 -0.452400E+01 0.803720E+01 0.295260E+01 0.159400E+00
16 22.800 -0.654400E+00 0.369950E+01 0.114210E+01 0.844000E-01
17 23.000 -0.139800E+00 0.212760E+01 0.606400E+00 0.601000E-01
18 23.200 -0.860000E-02 0.142800E+01 0.375800E+00 0.486000E-01
19 23.400 0.386000E-01 0.104330E+01 0.251100E+00 0.416000E-01
20 23.600 0.586000E-01 0.803400E+00 0.174700E+00 0.369000E-01
21 23.800 0.677000E-01 0.641400E+00 0.124100E+00 0.333000E-01
22 24.000 0.717000E-01 0.525800E+00 0.888000E-01 0.304000E-01
23 24.200 0.731000E-01 0.439900E+00 0.633000E-01 0.281000E-01
24 24.400 0.732000E-01 0.374200E+00 0.444000E-01 0.260000E-01
25 24.600 0.725000E-01 0.322700E+00 0.303000E-01 0.243000E-01
26 24.800 0.713000E-01 0.281600E+00 0.197000E-01 0.227000E-01
27 25.000 0.699000E-01 0.248300E+00 0.118000E-01 0.213000E-01
28 25.200 0.684000E-01 0.221100E+00 0.590000E-02 0.201000E-01
29 25.400 0.668000E-01 0.198700E+00 0.170000E-02 0.188000E-01
30 25.600 0.652000E-01 0.179900E+00 -0.120000E-02 0.178000E-01
31 25.800 0.636000E-01 0.164100E+00 -0.290000E-02 0.168000E-01
32 26.000 0.620000E-01 0.150800E+00 -0.380000E-02 0.160000E-01
33 26.200 0.604000E-01 0.139600E+00 -0.380000E-02 0.152000E-01
34 26.400 0.589000E-01 0.130000E+00 -0.300000E-02 0.142000E-01
35 26.600 0.575000E-01 0.121800E+00 -0.190000E-02 0.135000E-01
36 26.800 0.560000E-01 0.114700E+00 0.300000E-03 0.127000E-01
37 28.000 0.486000E-01 0.860000E-01 0.990000E-02 0.500000E-02
38 29.800 0.399000E-01 0.653000E-01 0.710000E-02 0.610000E-02
39 30.000 0.391000E-01 0.636000E-01 0.790000E-02 0.880000E-02
40 30.200 0.383000E-01 0.622000E-01 0.790000E-02 0.920000E-02
41 30.400 0.375000E-01 0.608000E-01 0.760000E-02 0.900000E-02
42 30.600 0.368000E-01 0.595000E-01 0.750000E-02 0.910000E-02
43 30.800 0.361000E-01 0.582000E-01 0.740000E-02 0.930000E-02
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Table 5: $(1)^3\Sigma^+ - (1-7)^3\Sigma^+$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
4.800	0.158500E+00	-0.197400E+01	-0.283580E+01	-0.756300E+00	0.966300E+00	-0.550300E+00	0.390000E-01
5.000	0.249400E+00	-0.174820E+01	-0.310580E+01	-0.787100E+00	0.835100E+00	-0.535000E+00	0.594000E-01
5.200	0.330600E+00	-0.146300E+01	-0.336990E+01	-0.770600E+00	0.727900E+00	-0.505800E+00	-0.866000E-01
5.400	0.398000E+00	-0.109910E+01	-0.361760E+01	-0.730700E+00	0.643200E+00	-0.473100E+00	-0.114400E+00
5.600	0.449500E+00	-0.636600E+00	-0.383090E+01	-0.682700E+00	0.574600E+00	-0.440100E+00	-0.141200E+00
5.800	0.484700E+00	-0.661000E-01	-0.397940E+01	-0.634500E+00	0.516700E+00	-0.408100E+00	-0.166400E+00
6.000	0.504300E+00	0.590500E+00	-0.402670E+01	-0.589900E+00	0.466300E+00	-0.377700E+00	-0.189700E+00
6.200	0.509800E+00	0.126950E+01	-0.395310E+01	-0.550300E+00	0.421500E+00	-0.348900E+00	-0.210800E+00
6.400	0.503400E+00	0.189420E+01	-0.377780E+01	-0.516000E+00	0.381400E+00	-0.322100E+00	-0.229700E+00
6.600	0.487200E+00	0.241940E+01	-0.354480E+01	-0.486700E+00	0.345300E+00	-0.297600E+00	-0.246400E+00
6.800	0.463500E+00	0.284050E+01	-0.329330E+01	-0.461900E+00	0.312900E+00	-0.275400E+00	-0.261300E+00
7.000	0.434500E+00	0.317300E+01	-0.304520E+01	-0.441000E+00	0.284000E+00	-0.256000E+00	-0.274900E+00
7.200	0.402000E+00	0.343610E+01	-0.280960E+01	-0.423300E+00	0.258200E+00	-0.239300E+00	-0.288200E+00
7.400	0.367500E+00	0.364570E+01	-0.258910E+01	-0.408000E+00	0.235300E+00	-0.225300E+00	-0.302900E+00
7.600	0.332300E+00	0.381350E+01	-0.238380E+01	-0.394600E+00	0.214900E+00	-0.214000E+00	-0.321700E+00
7.800	0.297400E+00	0.394820E+01	-0.219260E+01	-0.382500E+00	0.196600E+00	-0.205100E+00	-0.349700E+00
8.200	0.231000E+00	0.414220E+01	-0.184830E+01	-0.360100E+00	0.165000E+00	-0.194500E+00	-0.501000E+00
8.400	0.200400E+00	0.421000E+01	-0.169300E+01	-0.349000E+00	0.150600E+00	-0.192800E+00	-0.745100E+00
8.600	0.171900E+00	0.426250E+01	-0.154770E+01	-0.337300E+00	0.136400E+00	-0.196000E+00	-0.104070E+01
8.800	0.145800E+00	0.430200E+01	-0.141160E+01	-0.324700E+00	0.121400E+00	-0.369700E+00	-0.108150E+01
9.000	0.121900E+00	0.433040E+01	-0.128390E+01	-0.310700E+00	0.104200E+00	-0.116180E+01	-0.170900E+00
9.200	0.100400E+00	0.434920E+01	-0.116390E+01	-0.295000E+00	0.815000E-01	-0.118650E+01	-0.177600E+00
9.400	0.812000E-01	0.435990E+01	-0.105110E+01	-0.277000E+00	0.454000E-01	-0.121250E+01	-0.180300E+00
9.600	0.641000E-01	0.436360E+01	-0.944900E+00	-0.256000E+00	-0.330000E-01	-0.123880E+01	-0.182000E+00
9.800	0.492000E-01	0.436110E+01	-0.844800E+00	-0.231000E+00	-0.366800E+00	-0.121290E+01	-0.183300E+00
10.000	0.361000E-01	0.435330E+01	-0.750600E+00	-0.200600E+00	-0.119460E+01	0.505600E+00	-0.184200E+00
10.200	0.248000E-01	0.434100E+01	-0.661900E+00	-0.162200E+00	-0.129540E+01	0.297500E+00	-0.184700E+00
10.400	0.151000E-01	0.432470E+01	-0.578600E+00	-0.110700E+00	-0.134150E+01	0.237600E+00	-0.184900E+00
10.600	0.690000E-02	0.430510E+01	-0.500400E+00	-0.352000E-01	-0.138010E+01	0.209300E+00	-0.184800E+00
10.800	0.000000E+00	0.428260E+01	-0.427200E+00	0.922000E-01	-0.141080E+01	0.192600E+00	-0.184600E+00
11.000	-0.570000E-02	0.425770E+01	-0.359000E+00	0.354000E+00	-0.140310E+01	0.181200E+00	-0.184300E+00
11.200	-0.104000E-01	0.423090E+01	-0.295500E+00	0.884300E+00	-0.118740E+01	0.172700E+00	-0.183900E+00
11.400	-0.141000E-01	0.420250E+01	-0.236700E+00	0.129320E+01	-0.787700E+00	0.165900E+00	-0.183700E+00
11.600	-0.170000E-01	0.417280E+01	-0.182600E+00	0.144160E+01	-0.564000E+00	0.160000E+00	-0.183700E+00
11.800	-0.191000E-01	0.414230E+01	-0.132900E+00	0.151700E+01	-0.448000E+00	0.154700E+00	-0.184000E+00
12.000	-0.206000E-01	0.411120E+01	-0.875000E-01	0.157080E+01	-0.376500E+00	0.149700E+00	-0.184600E+00
12.200	-0.215000E-01	0.407970E+01	-0.463000E-01	0.161580E+01	-0.326300E+00	0.144900E+00	-0.185700E+00
12.400	-0.219000E-01	0.404810E+01	0.910000E-02	0.165630E+01	-0.287800E+00	0.140100E+00	-0.187200E+00
12.600	-0.219000E-01	0.401670E+01	0.242000E-01	0.169390E+01	-0.256500E+00	0.135500E+00	-0.189200E+00
12.800	-0.215000E-01	0.398550E+01	0.539000E-01	0.172930E+01	-0.230100E+00	0.130800E+00	-0.191700E+00
13.000	-0.208000E-01	0.395490E+01	0.801000E-01	0.176300E+01	-0.207100E+00	0.126100E+00	-0.194600E+00
13.200	-0.199000E-01	0.392480E+01	0.103100E+00	0.179510E+01	-0.186800E+00	0.121500E+00	-0.197900E+00
13.400	-0.188000E-01	0.389540E+01	0.123200E+00	0.182580E+01	-0.168600E+00	0.116900E+00	-0.201500E+00
13.600	-0.175000E-01	0.386690E+01	0.140500E+00	0.185500E+01	-0.152200E+00	0.112300E+00	-0.205500E+00
13.800	-0.161000E-01	0.383920E+01	0.155300E+00	0.188290E+01	-0.137300E+00	0.107700E+00	-0.209700E+00
14.000	-0.146000E-01	0.381240E+01	0.167800E+00	0.190960E+01	-0.123700E+00	0.103300E+00	-0.213900E+00
14.200	-0.131000E-01	0.378670E+01	0.178300E+00	0.193490E+01	-0.111300E+00	0.989000E-01	-0.218200E+00
14.400	-0.115000E-01	0.376190E+01	0.186900E+00	0.195900E+01	-0.100000E+00	0.946000E-01	-0.222300E+00
14.600	-0.990000E-02	0.373810E+01	0.193900E+00	0.198190E+01	-0.897000E-01	0.904000E-01	-0.226300E+00
15.000	-0.680000E-02	0.369350E+01	0.203800E+00	0.202430E+01	-0.717000E-01	0.825000E-01	-0.233300E+00
15.200	-0.530000E-02	0.367270E+01	0.207000E+00	0.204390E+01	-0.639000E-01	0.789000E-01	-0.236300E+00
15.800	-0.100000E-02	0.361590E+01	0.211300E+00	0.209660E+01	-0.445000E-01	0.708000E-01	-0.242700E+00
16.400	0.280000E-02	0.356670E+01	0.210000E+00	0.214130E+01	-0.300000E-01	0.808000E-01	-0.241300E+00
16.600	0.390000E-02	0.355180E+01	0.208800E+00	0.215470E+01	-0.260000E-01	0.118200E+00	-0.225700E+00
16.800	0.490000E-02	0.353770E+01	0.207200E+00	0.216730E+01	-0.225000E-01	0.240300E+00	-0.850000E-01
17.000	0.590000E-02	0.352420E+01	0.205400E+00	0.217930E+01	-0.193000E-01	0.254600E+00	-0.115000E-01
17.200	0.690000E-02	0.351140E+01	0.203400E+00	0.219070E+01	-0.164000E-01	0.254700E+00	-0.330000E-02
17.400	0.770000E-02	0.349910E+01	0.201200E+00	0.220140E+01	-0.138000E-01	0.254400E+00	-0.760000E-02
17.600	0.850000E-02	0.348740E+01	0.198900E+00	0.221160E+01	-0.115000E-01	0.254100E+00	-0.840000E-02
17.800	0.930000E-02	0.347630E+01	0.196500E+00	0.222140E+01	-0.940000E-02	0.253800E+00	-0.780000E-02
18.000	0.100000E-01	0.346560E+01	0.193900E+00	0.223060E+01	-0.750000E-02	0.253500E+00	-0.640000E-02
18.200	0.106000E-01	0.345550E+01	0.191300E+00	0.223940E+01	-0.580000E-02	0.253200E+00	-0.480000E-02
18.400	0.112000E-01	0.344580E+01	0.188700E+00	0.224770E+01	-0.430000E-02	0.252800E+00	-0.290000E-02
18.600	0.118000E-01	0.343640E+01	0.186000E+00	0.225570E+01	-0.300000E-02	0.252500E+00	-0.100000E-02
18.800	0.123000E-01	0.342750E+01	0.183200E+00	0.226330E+01	-0.180000E-02	0.252100E+00	0.900000E-03
19.000	0.127000E-01	0.341900E+01	0.180500E+00	0.227050E+01	-0.700000E-03	0.251600E+00	0.290000E-02
19.200	0.132000E-01	0.341080E+01	0.177700E+00	0.227750E+01	0.200000E-03	0.251200E+00	0.470000E-02
19.600	0.139000E-01	0.339540E+01	0.172200E+00	0.229040E+01	0.180000E-02	0.250300E+00	0.810000E-02
19.800	0.142000E-01	0.338820E+01	0.169400E+00	0.229650E+01	0.250000E-02	0.249800E+00	0.960000E-02
20.000	0.145000E-01	0.338120E+01	0.166600E+00	0.230230E+01	0.310000E-02	0.249400E+00	0.110000E-01
20.200	0.148000E-01	0.337450E+01	0.163900E+00	0.230790E+01	0.360000E-02	0.248900E+00	0.123000E-01
20.400	0.150000E-01	0.336810E+01	0.161200E+00	0.231320E+01	0.400000E-02	0.248500E+00	0.135000E-01
20.600	0.152000E-01	0.336190E+01	0.158500E+00	0.231840E+01	0.440000E-02	0.248100E+00	0.145000E-01
20.800	0.154000E-01	0.335590E+01	0.155900E+00	0.232330E+01	0.470000E-02	0.247600E+00	0.154000E-01
21.000	0.156000E-01	0.335010E+01	0.153200E+00	0.232810E+01	0.490000E-02	0.247200E+00	0.162000E-01
21.200	0.157000E-01	0.334460E+01	0.150700E+00	0.233270E+01	0.520000E-02	0.246800E+00	0.169000E-01

21.400	0.159000E-01	0.333920E+01	0.148100E+00	0.233710E+01	0.530000E-02	0.246300E+00	0.175000E-01
21.600	0.160000E-01	0.333400E+01	0.145600E+00	0.234140E+01	0.550000E-02	0.245900E+00	0.179000E-01
21.800	0.160000E-01	0.332900E+01	0.143100E+00	0.234550E+01	0.560000E-02	0.245500E+00	0.183000E-01
22.000	0.161000E-01	0.332420E+01	0.140700E+00	0.234940E+01	0.570000E-02	0.245000E+00	0.185000E-01
22.200	0.162000E-01	0.331950E+01	0.138300E+00	0.235320E+01	0.570000E-02	0.244600E+00	0.187000E-01
22.400	0.162000E-01	0.331500E+01	0.135900E+00	0.235690E+01	0.570000E-02	0.244200E+00	0.187000E-01
22.600	0.162000E-01	0.331070E+01	0.133600E+00	0.236050E+01	0.570000E-02	0.243800E+00	0.186000E-01
22.800	0.162000E-01	0.330650E+01	0.131300E+00	0.236390E+01	0.570000E-02	0.243300E+00	0.185000E-01
23.000	0.162000E-01	0.330240E+01	0.129100E+00	0.236720E+01	0.570000E-02	0.242900E+00	0.182000E-01
23.200	0.162000E-01	0.329850E+01	0.126900E+00	0.237050E+01	0.560000E-02	0.242500E+00	0.179000E-01
23.400	0.162000E-01	0.329470E+01	0.124700E+00	0.237360E+01	0.560000E-02	0.242100E+00	0.176000E-01
23.600	0.162000E-01	0.329100E+01	0.122600E+00	0.237660E+01	0.550000E-02	0.241700E+00	0.171000E-01
23.800	0.161000E-01	0.328750E+01	0.120500E+00	0.237950E+01	0.540000E-02	0.241300E+00	0.167000E-01
24.000	0.161000E-01	0.328400E+01	0.118400E+00	0.238230E+01	0.530000E-02	0.240900E+00	0.161000E-01
24.200	0.160000E-01	0.328070E+01	0.116400E+00	0.238510E+01	0.520000E-02	0.240500E+00	0.156000E-01
24.400	0.159000E-01	0.327750E+01	0.114400E+00	0.238770E+01	0.510000E-02	0.240100E+00	0.149000E-01
24.600	0.158000E-01	0.327440E+01	0.112400E+00	0.239030E+01	0.500000E-02	0.239800E+00	0.143000E-01
24.800	0.158000E-01	0.327140E+01	0.110500E+00	0.239280E+01	0.490000E-02	0.239400E+00	0.136000E-01
25.000	0.157000E-01	0.326850E+01	0.108600E+00	0.239520E+01	0.480000E-02	0.239100E+00	0.129000E-01
25.200	0.156000E-01	0.326570E+01	0.106700E+00	0.239750E+01	0.470000E-02	0.238700E+00	0.122000E-01
25.400	0.155000E-01	0.326300E+01	0.104900E+00	0.239980E+01	0.460000E-02	0.238400E+00	0.115000E-01
25.600	0.154000E-01	0.326030E+01	0.103100E+00	0.240200E+01	0.450000E-02	0.238100E+00	0.108000E-01
25.800	0.153000E-01	0.325780E+01	0.101300E+00	0.240420E+01	0.440000E-02	0.237900E+00	0.101000E-01
26.000	0.151000E-01	0.325530E+01	0.995000E-01	0.240620E+01	0.430000E-02	0.237600E+00	0.930000E-02
26.200	0.150000E-01	0.325290E+01	0.978000E-01	0.240830E+01	0.420000E-02	0.237400E+00	0.860000E-02
26.400	0.149000E-01	0.325060E+01	0.961000E-01	0.241020E+01	0.410000E-02	0.237100E+00	0.790000E-02
26.600	0.148000E-01	0.324840E+01	0.944000E-01	0.241210E+01	0.400000E-02	0.236900E+00	0.710000E-02
26.800	0.147000E-01	0.324620E+01	0.927000E-01	0.241400E+01	0.390000E-02	0.236700E+00	0.640000E-02
28.000	0.139000E-01	0.323430E+01	0.834000E-01	0.242400E+01	0.350000E-02	0.236000E+00	0.230000E-02
29.800	0.129000E-01	0.321970E+01	0.712000E-01	0.243620E+01	0.300000E-02	0.235800E+00	0.270000E-02
30.000	0.128000E-01	0.321830E+01	0.700000E-01	0.243750E+01	0.300000E-02	0.235800E+00	0.320000E-02
30.200	0.126000E-01	0.321690E+01	0.688000E-01	0.243860E+01	0.300000E-02	0.235800E+00	0.360000E-02
30.400	0.125000E-01	0.321550E+01	0.676000E-01	0.243970E+01	0.290000E-02	0.235900E+00	0.410000E-02
30.600	0.124000E-01	0.321420E+01	0.665000E-01	0.244090E+01	0.290000E-02	0.235900E+00	0.450000E-02
30.800	0.123000E-01	0.321270E+01	0.653000E-01	0.244180E+01	0.290000E-02	0.235900E+00	0.490000E-02

Table 6: $(2)^3\Sigma^+-(2-7)^3\Sigma^+$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
4.800	0.165550E+01	-0.155400E+01	-0.590000E+00	-0.387400E+00	0.145150E+01	0.126180E+01
5.000	0.158870E+01	-0.199190E+01	-0.373800E+00	-0.192900E+00	0.148930E+01	0.132120E+01
5.200	0.137860E+01	-0.245660E+01	-0.183200E+00	-0.998000E-01	0.148600E+01	0.136040E+01
5.400	0.984000E+00	-0.291220E+01	0.101000E-01	-0.474200E+00	0.145480E+01	0.135610E+01
5.600	0.365200E+00	-0.329360E+01	0.236200E+00	-0.916500E+00	0.139850E+01	0.128950E+01
5.800	-0.483900E+00	-0.349490E+01	0.515100E+00	-0.140390E+01	0.131870E+01	0.114520E+01
6.000	-0.148090E+01	-0.339460E+01	0.843100E+00	-0.189170E+01	0.122080E+01	0.922000E+00
6.200	-0.244030E+01	-0.294780E+01	0.118750E+01	-0.231800E+01	0.111770E+01	0.645400E+00
6.400	-0.317990E+01	-0.225290E+01	0.150580E+01	-0.263710E+01	0.102670E+01	0.359600E+00
6.600	-0.363990E+01	-0.147630E+01	0.177410E+01	-0.284360E+01	0.959600E+00	0.102000E+00
6.800	-0.386670E+01	-0.738300E+00	0.199110E+01	-0.296040E+01	0.918800E+00	0.111800E+00
7.000	-0.393550E+01	-0.880000E-01	0.216620E+01	-0.301540E+01	0.899700E+00	0.281700E+00
7.200	-0.390760E+01	0.468500E+00	0.230940E+01	-0.303080E+01	0.895800E+00	0.412900E+00
7.400	-0.382370E+01	0.941200E+00	0.242850E+01	-0.302180E+01	0.901000E+00	0.510700E+00
7.600	-0.370900E+01	0.134370E+01	0.252890E+01	-0.299830E+01	0.910400E+00	0.576500E+00
7.800	-0.357870E+01	0.168840E+01	0.261410E+01	-0.296690E+01	0.920700E+00	0.605600E+00
8.200	-0.330500E+01	0.224330E+01	0.274890E+01	-0.289530E+01	0.935500E+00	0.417800E+00
8.400	-0.317060E+01	0.246820E+01	0.280220E+01	-0.285930E+01	0.938700E+00	0.132800E+00
8.600	-0.304090E+01	0.266540E+01	0.284810E+01	-0.282400E+01	0.942300E+00	0.110360E+01
8.800	-0.291700E+01	0.283870E+01	0.288830E+01	-0.278880E+01	0.116740E+01	0.138060E+01
9.000	-0.279930E+01	0.299150E+01	0.292430E+01	-0.275190E+01	0.172810E+01	0.888400E+00
9.200	-0.268770E+01	0.312630E+01	0.295750E+01	-0.270840E+01	0.181160E+01	0.881000E+00
9.400	-0.258200E+01	0.324510E+01	0.298960E+01	-0.264610E+01	0.189020E+01	0.864300E+00
9.600	-0.248200E+01	0.334970E+01	0.302210E+01	-0.251800E+01	0.203130E+01	0.843700E+00
9.800	-0.238730E+01	0.344150E+01	0.305680E+01	-0.190350E+01	0.258470E+01	0.821000E+00
10.000	-0.229740E+01	0.352170E+01	0.309550E+01	-0.716800E+00	0.309360E+01	0.797400E+00
10.200	-0.221200E+01	0.359140E+01	0.314080E+01	-0.116650E+01	0.290470E+01	0.773900E+00
10.400	-0.213080E+01	0.365160E+01	0.319640E+01	-0.120200E+01	0.282470E+01	0.751300E+00
10.600	-0.205350E+01	0.370320E+01	0.326820E+01	-0.110500E+01	0.277510E+01	0.730300E+00
10.800	-0.197980E+01	0.374700E+01	0.336560E+01	-0.857700E+00	0.273670E+01	0.712500E+00
11.000	-0.190940E+01	0.378400E+01	0.348010E+01	-0.268600E+00	0.270340E+01	0.697900E+00
11.200	-0.184190E+01	0.381480E+01	0.333720E+01	0.106860E+01	0.267290E+01	0.687300E+00
11.400	-0.17710E+01	0.384020E+01	0.271130E+01	0.223730E+01	0.264390E+01	0.681000E+00
11.600	-0.171470E+01	0.386080E+01	0.229260E+01	0.267690E+01	0.261620E+01	0.679500E+00
11.800	-0.165440E+01	0.387710E+01	0.205840E+01	0.287020E+01	0.258950E+01	0.682900E+00
12.000	-0.159600E+01	0.388970E+01	0.190480E+01	0.298170E+01	0.256380E+01	0.691400E+00
12.200	-0.153920E+01	0.389910E+01	0.178930E+01	0.305810E+01	0.253920E+01	0.704900E+00
12.400	-0.148380E+01	0.390550E+01	0.169390E+01	0.311630E+01	0.251560E+01	0.723300E+00
12.600	-0.142980E+01	0.390930E+01	0.161050E+01	0.316340E+01	0.249300E+01	0.746400E+00
12.800	-0.137710E+01	0.391080E+01	0.153460E+01	0.320300E+01	0.247150E+01	0.773700E+00
13.000	-0.132540E+01	0.391020E+01	0.146390E+01	0.323730E+01	0.245090E+01	0.804400E+00
13.200	-0.127490E+01	0.390770E+01	0.139720E+01	0.326720E+01	0.243140E+01	0.837800E+00
13.400	-0.122540E+01	0.390350E+01	0.133360E+01	0.329360E+01	0.241280E+01	0.872800E+00
13.600	-0.117690E+01	0.389780E+01	0.127290E+01	0.331710E+01	0.239510E+01	0.908200E+00
13.800	-0.112950E+01	0.389060E+01	0.121460E+01	0.333780E+01	0.237840E+01	0.943000E+00
14.000	-0.108310E+01	0.388230E+01	0.115870E+01	0.335620E+01	0.236260E+01	0.975600E+00
14.200	-0.103770E+01	0.387270E+01	0.110510E+01	0.337250E+01	0.234770E+01	0.100480E+01
14.400	-0.993400E+00	0.386220E+01	0.105380E+01	0.338680E+01	0.233380E+01	0.102940E+01
14.600	-0.950100E+00	0.385080E+01	0.100470E+01	0.339930E+01	0.232100E+01	0.104840E+01
15.000	-0.867000E+00	0.382570E+01	0.913000E+00	0.341950E+01	0.229860E+01	0.106690E+01
15.200	-0.827100E+00	0.381220E+01	0.870300E+00	0.342730E+01	0.228940E+01	0.106530E+01
15.800	-0.714700E+00	0.376940E+01	0.754400E+00	0.344350E+01	0.227390E+01	0.100860E+01
16.400	-0.613200E+00	0.372480E+01	0.655000E+00	0.345050E+01	0.231780E+01	0.754500E+00
16.600	-0.581900E+00	0.370990E+01	0.625300E+00	0.345120E+01	0.239800E+01	0.321500E+00
16.800	-0.551800E+00	0.369510E+01	0.597100E+00	0.345120E+01	0.193010E+01	0.142870E+01
17.000	-0.522900E+00	0.368040E+01	0.570300E+00	0.345050E+01	0.137740E+01	0.194370E+01
17.200	-0.495200E+00	0.366590E+01	0.544900E+00	0.344930E+01	0.120660E+01	0.203200E+01
17.400	-0.468800E+00	0.365160E+01	0.520800E+00	0.344770E+01	0.111770E+01	0.206070E+01
17.600	-0.443500E+00	0.363760E+01	0.497900E+00	0.344560E+01	0.105680E+01	0.207130E+01
17.800	-0.419300E+00	0.362390E+01	0.476200E+00	0.344320E+01	0.100870E+01	0.207430E+01
18.000	-0.396300E+00	0.361050E+01	0.455600E+00	0.344040E+01	0.967500E+00	0.207330E+01
18.200	-0.374300E+00	0.359740E+01	0.436100E+00	0.343740E+01	0.930700E+00	0.207000E+01
18.400	-0.353400E+00	0.358470E+01	0.417500E+00	0.343410E+01	0.896800E+00	0.206530E+01
18.600	-0.333500E+00	0.357240E+01	0.399800E+00	0.343070E+01	0.865200E+00	0.205970E+01
18.800	-0.314600E+00	0.356050E+01	0.383000E+00	0.342720E+01	0.835400E+00	0.205350E+01
19.000	-0.296700E+00	0.354890E+01	0.367000E+00	0.342350E+01	0.807200E+00	0.204710E+01
19.200	-0.279600E+00	0.353770E+01	0.351800E+00	0.341980E+01	0.780200E+00	0.204030E+01
19.600	-0.248100E+00	0.351660E+01	0.323500E+00	0.341220E+01	0.729800E+00	0.202670E+01
19.800	-0.233600E+00	0.350660E+01	0.310400E+00	0.340840E+01	0.706100E+00	0.201990E+01
20.000	-0.219700E+00	0.349690E+01	0.297900E+00	0.340470E+01	0.683200E+00	0.201310E+01
20.200	-0.206600E+00	0.348770E+01	0.285900E+00	0.340090E+01	0.661300E+00	0.200660E+01
20.400	-0.194100E+00	0.347880E+01	0.274600E+00	0.339720E+01	0.640000E+00	0.200010E+01
20.600	-0.182300E+00	0.347030E+01	0.263700E+00	0.339350E+01	0.619200E+00	0.199350E+01
20.800	-0.171000E+00	0.346210E+01	0.253400E+00	0.338990E+01	0.599600E+00	0.198760E+01
21.000	-0.160300E+00	0.345430E+01	0.243500E+00	0.338640E+01	0.580500E+00	0.198190E+01
21.200	-0.150100E+00	0.344680E+01	0.234100E+00	0.338290E+01	0.562100E+00	0.197670E+01

21.400	-0.140400E+00	0.343960E+01	0.225100E+00	0.337950E+01	0.544400E+00	0.197170E+01
21.600	-0.131100E+00	0.343270E+01	0.216600E+00	0.337620E+01	0.527200E+00	0.196700E+01
21.800	-0.122300E+00	0.342610E+01	0.208400E+00	0.337290E+01	0.510500E+00	0.196250E+01
22.000	-0.113800E+00	0.341980E+01	0.200600E+00	0.336970E+01	0.494300E+00	0.195840E+01
22.200	-0.105800E+00	0.341380E+01	0.193100E+00	0.336650E+01	0.478600E+00	0.195470E+01
22.400	-0.981000E-01	0.340800E+01	0.186000E+00	0.336340E+01	0.463400E+00	0.195130E+01
22.600	-0.907000E-01	0.340250E+01	0.179100E+00	0.336030E+01	0.448300E+00	0.194790E+01
22.800	-0.837000E-01	0.339720E+01	0.172600E+00	0.335720E+01	0.433700E+00	0.194490E+01
23.000	-0.770000E-01	0.339210E+01	0.166400E+00	0.335420E+01	0.419400E+00	0.194220E+01
23.200	-0.706000E-01	0.338720E+01	0.160400E+00	0.335120E+01	0.405400E+00	0.193970E+01
23.400	-0.646000E-01	0.338250E+01	0.154800E+00	0.334820E+01	0.391800E+00	0.193740E+01
23.600	-0.588000E-01	0.337800E+01	0.149300E+00	0.334530E+01	0.378500E+00	0.193550E+01
23.800	-0.533000E-01	0.337370E+01	0.144100E+00	0.334240E+01	0.365300E+00	0.193370E+01
24.000	-0.481000E-01	0.336960E+01	0.139100E+00	0.333950E+01	0.352400E+00	0.193210E+01
24.200	-0.432000E-01	0.336560E+01	0.134400E+00	0.333660E+01	0.339800E+00	0.193060E+01
24.400	-0.385000E-01	0.336180E+01	0.129800E+00	0.333380E+01	0.327300E+00	0.192930E+01
24.600	-0.341000E-01	0.335810E+01	0.125500E+00	0.333090E+01	0.315100E+00	0.192820E+01
24.800	-0.300000E-01	0.335460E+01	0.121300E+00	0.332810E+01	0.303200E+00	0.192720E+01
25.000	-0.261000E-01	0.335120E+01	0.117300E+00	0.332540E+01	0.291400E+00	0.192640E+01
25.200	-0.225000E-01	0.334790E+01	0.113400E+00	0.332270E+01	0.279900E+00	0.192570E+01
25.400	-0.191000E-01	0.334480E+01	0.109800E+00	0.332000E+01	0.268600E+00	0.192520E+01
25.600	-0.159000E-01	0.334180E+01	0.106200E+00	0.331740E+01	0.257500E+00	0.192470E+01
25.800	-0.129000E-01	0.333890E+01	0.102900E+00	0.331480E+01	0.246700E+00	0.192440E+01
26.000	-0.102000E-01	0.333610E+01	0.996000E-01	0.331230E+01	0.236100E+00	0.192420E+01
26.200	-0.760000E-02	0.333350E+01	0.965000E-01	0.330980E+01	0.225800E+00	0.192410E+01
26.400	-0.520000E-02	0.333090E+01	0.935000E-01	0.330740E+01	0.215700E+00	0.192410E+01
26.600	-0.300000E-02	0.332850E+01	0.907000E-01	0.330510E+01	0.205800E+00	0.192410E+01
26.800	-0.100000E-02	0.332610E+01	0.879000E-01	0.330290E+01	0.196400E+00	0.192450E+01
28.000	0.820000E-02	0.331370E+01	0.735000E-01	0.329090E+01	0.143800E+00	0.192650E+01
29.800	0.149000E-01	0.330000E+01	0.572000E-01	0.327820E+01	0.825000E-01	0.193250E+01
30.000	0.153000E-01	0.329870E+01	0.557000E-01	0.327720E+01	0.769000E-01	0.193330E+01
30.200	0.157000E-01	0.329750E+01	0.542000E-01	0.327620E+01	0.716000E-01	0.193400E+01
30.400	0.160000E-01	0.329640E+01	0.528000E-01	0.327520E+01	0.665000E-01	0.193480E+01
30.600	0.162000E-01	0.329530E+01	0.514000E-01	0.327440E+01	0.615000E-01	0.193550E+01
30.800	0.164000E-01	0.329420E+01	0.501000E-01	0.327360E+01	0.569000E-01	0.193620E+01

Table 7: $(3)^3\Sigma^+-(3-7)^3\Sigma^+$ transitions

R	3-3	3-4	3-5	3-6	3-7
4.800	-0.304020E+01	-0.503970E+01	0.277600E+01	-0.598100E+00	-0.119660E+01
5.000	-0.293520E+01	-0.456950E+01	0.323990E+01	-0.383500E+00	-0.136110E+01
5.200	-0.264810E+01	-0.417680E+01	0.346280E+01	-0.184500E+00	-0.153530E+01
5.400	-0.214910E+01	-0.388300E+01	0.350250E+01	0.290000E-02	-0.172500E+01
5.600	-0.141150E+01	-0.367070E+01	0.339820E+01	0.178100E+00	-0.193260E+01
5.800	-0.439500E+00	-0.350900E+01	0.316300E+01	0.338700E+00	-0.215120E+01
6.000	0.677400E+00	-0.336470E+01	0.280360E+01	0.477600E+00	-0.236040E+01
6.200	0.174910E+01	-0.321690E+01	0.234810E+01	0.584600E+00	-0.253240E+01
6.400	0.259090E+01	-0.306530E+01	0.185110E+01	0.655400E+00	-0.264980E+01
6.600	0.314160E+01	-0.292120E+01	0.136630E+01	0.696800E+00	-0.271460E+01
6.800	0.344700E+01	-0.279260E+01	0.923800E+00	0.722700E+00	-0.273920E+01
7.000	0.358210E+01	-0.268030E+01	0.531400E+00	0.746600E+00	-0.273610E+01
7.200	0.360850E+01	-0.258130E+01	0.187100E+00	0.778100E+00	-0.271410E+01
7.400	0.356710E+01	-0.249180E+01	0.114600E+00	0.822600E+00	-0.267890E+01
7.600	0.348380E+01	-0.240860E+01	0.379000E+00	0.882400E+00	-0.263420E+01
7.800	0.337450E+01	-0.232940E+01	0.610400E+00	0.957600E+00	-0.258150E+01
8.200	0.311470E+01	-0.217720E+01	0.989200E+00	0.114730E+01	-0.243170E+01
8.400	0.297480E+01	-0.210260E+01	0.114260E+01	0.125740E+01	-0.218840E+01
8.600	0.283230E+01	-0.202850E+01	0.127520E+01	0.137620E+01	-0.148450E+01
8.800	0.268920E+01	-0.195440E+01	0.138950E+01	0.162980E+01	-0.760400E+00
9.000	0.254660E+01	-0.188030E+01	0.148710E+01	0.850600E+00	-0.158870E+01
9.200	0.240530E+01	-0.180580E+01	0.156870E+01	0.769000E+00	-0.170870E+01
9.400	0.226600E+01	-0.173080E+01	0.163160E+01	0.758600E+00	-0.182000E+01
9.600	0.212910E+01	-0.165490E+01	0.165820E+01	0.832400E+00	-0.192380E+01
9.800	0.199500E+01	-0.157780E+01	0.145040E+01	0.124440E+01	-0.201920E+01
10.000	0.186420E+01	-0.149890E+01	0.600000E-03	0.196520E+01	-0.210540E+01
10.200	0.173700E+01	-0.141720E+01	-0.332200E+00	0.199040E+01	-0.218200E+01
10.400	0.161380E+01	-0.133070E+01	-0.438400E+00	0.202300E+01	-0.224900E+01
10.600	0.149490E+01	-0.123500E+01	-0.514000E+00	0.206020E+01	-0.230640E+01
10.800	0.138070E+01	-0.111710E+01	-0.605600E+00	0.209750E+01	-0.235470E+01
11.000	0.127140E+01	-0.928600E+00	-0.763500E+00	0.213330E+01	-0.239540E+01
11.200	0.116710E+01	-0.523300E+00	-0.100520E+01	0.216650E+01	-0.242850E+01
11.400	0.106800E+01	-0.908000E-01	-0.106060E+01	0.219660E+01	-0.245550E+01
11.600	0.974200E+00	0.101500E+00	-0.991400E+00	0.222320E+01	-0.247700E+01
11.800	0.885700E+00	0.188100E+00	-0.910700E+00	0.224570E+01	-0.249420E+01
12.000	0.802400E+00	0.234600E+00	-0.832400E+00	0.226390E+01	-0.250770E+01
12.200	0.724200E+00	0.262400E+00	-0.757600E+00	0.227760E+01	-0.251810E+01
12.400	0.651000E+00	0.280000E+00	-0.686100E+00	0.228640E+01	-0.252600E+01
12.600	0.582600E+00	0.291300E+00	-0.617500E+00	0.229050E+01	-0.253180E+01
12.800	0.518900E+00	0.298300E+00	-0.551900E+00	0.228960E+01	-0.253520E+01
13.000	0.459600E+00	0.302400E+00	-0.489200E+00	0.228380E+01	-0.253610E+01
13.200	0.404600E+00	0.304100E+00	-0.429300E+00	0.227310E+01	-0.253430E+01
13.400	0.353700E+00	0.304200E+00	-0.372300E+00	0.225760E+01	-0.252960E+01
13.600	0.306600E+00	0.302900E+00	-0.318100E+00	0.223760E+01	-0.252150E+01
13.800	0.263100E+00	0.300500E+00	-0.266800E+00	0.221330E+01	-0.250970E+01
14.000	0.223000E+00	0.297300E+00	-0.218300E+00	0.218500E+01	-0.249390E+01
14.200	0.186200E+00	0.293500E+00	-0.172600E+00	0.215290E+01	-0.247350E+01
14.400	0.152400E+00	0.289100E+00	-0.129700E+00	0.211750E+01	-0.244880E+01
14.600	0.121300E+00	0.284400E+00	-0.895000E-01	0.207910E+01	-0.241990E+01
15.000	0.670000E-01	0.274200E+00	-0.172000E-01	0.199530E+01	-0.234990E+01
15.200	0.433000E-01	0.268900E+00	0.150000E-01	0.195130E+01	-0.230930E+01
15.800	-0.155000E-01	0.252700E+00	0.969000E-01	0.182440E+01	-0.216340E+01
16.400	-0.592000E-01	0.236600E+00	0.158100E+00	0.181660E+01	-0.189410E+01
16.600	-0.709000E-01	0.231400E+00	0.174500E+00	0.204830E+01	-0.152960E+01
16.800	-0.815000E-01	0.226300E+00	0.188900E+00	0.247460E+01	-0.276200E+00
17.000	-0.909000E-01	0.221100E+00	0.201500E+00	0.222270E+01	0.962500E+00
17.200	-0.993000E-01	0.216100E+00	0.212500E+00	0.210250E+01	0.106460E+01
17.400	-0.106800E+00	0.211200E+00	0.221800E+00	0.202720E+01	0.107070E+01
17.600	-0.113400E+00	0.206400E+00	0.229700E+00	0.196910E+01	0.104710E+01
17.800	-0.119200E+00	0.201600E+00	0.236200E+00	0.191930E+01	0.101100E+01
18.000	-0.124300E+00	0.196900E+00	0.241400E+00	0.187480E+01	0.969600E+00
18.200	-0.128800E+00	0.192300E+00	0.245500E+00	0.183380E+01	0.925800E+00
18.400	-0.132700E+00	0.187700E+00	0.248500E+00	0.179530E+01	0.881100E+00
18.600	-0.136000E+00	0.183300E+00	0.250400E+00	0.175870E+01	0.836700E+00
18.800	-0.138800E+00	0.178900E+00	0.251500E+00	0.172380E+01	0.793200E+00
19.000	-0.141300E+00	0.174600E+00	0.251700E+00	0.169020E+01	0.750900E+00
19.200	-0.143300E+00	0.170400E+00	0.251200E+00	0.165810E+01	0.710400E+00
19.600	-0.146300E+00	0.162300E+00	0.248300E+00	0.159720E+01	0.634500E+00
19.800	-0.147300E+00	0.158300E+00	0.246100E+00	0.156830E+01	0.599300E+00
20.000	-0.148100E+00	0.154400E+00	0.243300E+00	0.154050E+01	0.566100E+00
20.200	-0.148700E+00	0.150600E+00	0.240200E+00	0.151350E+01	0.534800E+00
20.400	-0.149100E+00	0.146900E+00	0.236800E+00	0.148760E+01	0.505500E+00
20.600	-0.149300E+00	0.143300E+00	0.233100E+00	0.146310E+01	0.478700E+00
20.800	-0.149400E+00	0.139800E+00	0.229200E+00	0.143870E+01	0.452700E+00
21.000	-0.149300E+00	0.136400E+00	0.225000E+00	0.141510E+01	0.428300E+00
21.200	-0.149200E+00	0.133000E+00	0.220700E+00	0.139230E+01	0.405600E+00

21.400	-0.148900E+00	0.129700E+00	0.216400E+00	0.137030E+01	0.384500E+00
21.600	-0.148500E+00	0.126500E+00	0.211900E+00	0.134910E+01	0.364700E+00
21.800	-0.148100E+00	0.123400E+00	0.207400E+00	0.132850E+01	0.346300E+00
22.000	-0.147600E+00	0.120400E+00	0.202900E+00	0.130870E+01	0.329200E+00
22.200	-0.147100E+00	0.117500E+00	0.198400E+00	0.128960E+01	0.313300E+00
22.400	-0.146500E+00	0.114600E+00	0.193900E+00	0.127110E+01	0.298400E+00
22.600	-0.145900E+00	0.111800E+00	0.189500E+00	0.125350E+01	0.284800E+00
22.800	-0.145200E+00	0.109100E+00	0.185100E+00	0.123640E+01	0.272000E+00
23.000	-0.144600E+00	0.106500E+00	0.180800E+00	0.122000E+01	0.260200E+00
23.200	-0.143900E+00	0.103900E+00	0.176600E+00	0.120420E+01	0.249200E+00
23.400	-0.143100E+00	0.101500E+00	0.172400E+00	0.118900E+01	0.239000E+00
23.600	-0.142400E+00	0.991000E-01	0.168400E+00	0.117440E+01	0.229500E+00
23.800	-0.141600E+00	0.967000E-01	0.164500E+00	0.116040E+01	0.220700E+00
24.000	-0.140800E+00	0.944000E-01	0.160600E+00	0.114690E+01	0.212400E+00
24.200	-0.139900E+00	0.922000E-01	0.156900E+00	0.113400E+01	0.204700E+00
24.400	-0.139100E+00	0.901000E-01	0.153200E+00	0.112160E+01	0.197600E+00
24.600	-0.138200E+00	0.880000E-01	0.149700E+00	0.110980E+01	0.190900E+00
24.800	-0.137300E+00	0.860000E-01	0.146300E+00	0.109840E+01	0.184700E+00
25.000	-0.136300E+00	0.840000E-01	0.142900E+00	0.108750E+01	0.178800E+00
25.200	-0.135400E+00	0.821000E-01	0.139700E+00	0.107700E+01	0.173300E+00
25.400	-0.134400E+00	0.803000E-01	0.136500E+00	0.106700E+01	0.168100E+00
25.600	-0.133400E+00	0.785000E-01	0.133500E+00	0.105740E+01	0.163200E+00
25.800	-0.132400E+00	0.767000E-01	0.130500E+00	0.104830E+01	0.158600E+00
26.000	-0.131400E+00	0.750000E-01	0.127600E+00	0.103950E+01	0.154300E+00
26.200	-0.130300E+00	0.734000E-01	0.124800E+00	0.103110E+01	0.150100E+00
26.400	-0.129300E+00	0.718000E-01	0.122100E+00	0.102310E+01	0.146200E+00
26.600	-0.128200E+00	0.702000E-01	0.119500E+00	0.101540E+01	0.142400E+00
26.800	-0.127100E+00	0.687000E-01	0.116900E+00	0.100800E+01	0.138800E+00
28.000	-0.120300E+00	0.606000E-01	0.103100E+00	0.970400E+00	0.120700E+00
29.800	-0.109800E+00	0.507000E-01	0.863000E-01	0.930200E+00	0.100000E+00
30.000	-0.108700E+00	0.497000E-01	0.846000E-01	0.926600E+00	0.981000E-01
30.200	-0.107500E+00	0.488000E-01	0.830000E-01	0.923300E+00	0.962000E-01
30.400	-0.106400E+00	0.478000E-01	0.815000E-01	0.920100E+00	0.943000E-01
30.600	-0.105200E+00	0.470000E-01	0.800000E-01	0.917100E+00	0.925000E-01
30.800	-0.104100E+00	0.461000E-01	0.785000E-01	0.914100E+00	0.908000E-01

Table 8: $(4)^3\Sigma^+-(4-7)^3\Sigma^+$ transitions

R	4-4	4-5	4-6	4-7
4.800	0.464700E+00	-0.335780E+01	-0.524840E+01	-0.374970E+01
5.000	0.421800E+00	-0.316450E+01	-0.479750E+01	-0.362890E+01
5.200	0.514800E+00	-0.309870E+01	-0.455110E+01	-0.339450E+01
5.400	0.662500E+00	-0.310540E+01	-0.448090E+01	-0.312340E+01
5.600	0.826200E+00	-0.313830E+01	-0.453140E+01	-0.283740E+01
5.800	0.989800E+00	-0.317240E+01	-0.465360E+01	-0.254220E+01
6.000	0.114680E+01	-0.319690E+01	-0.481130E+01	-0.223950E+01
6.200	0.129330E+01	-0.320970E+01	-0.497830E+01	-0.193390E+01
6.400	0.142680E+01	-0.321250E+01	-0.513710E+01	-0.163240E+01
6.600	0.154550E+01	-0.320870E+01	-0.527680E+01	-0.134330E+01
6.800	0.164810E+01	-0.320270E+01	-0.539190E+01	-0.107580E+01
7.000	0.173410E+01	-0.319830E+01	-0.548080E+01	-0.837500E+00
7.200	0.180390E+01	-0.319890E+01	-0.554450E+01	-0.633800E+00
7.400	0.185810E+01	-0.320690E+01	-0.558560E+01	-0.467400E+00
7.600	0.189790E+01	-0.322360E+01	-0.560680E+01	-0.338300E+00
7.800	0.192510E+01	-0.324950E+01	-0.561120E+01	-0.244000E+00
8.200	0.194880E+01	-0.332620E+01	-0.558020E+01	-0.128700E+00
8.400	0.194960E+01	-0.337400E+01	-0.554960E+01	-0.517000E-01
8.600	0.194600E+01	-0.342560E+01	-0.551190E+01	0.657000E-01
8.800	0.194000E+01	-0.347860E+01	-0.542050E+01	0.733000E+00
9.000	0.193360E+01	-0.353100E+01	-0.243400E+00	0.541680E+01
9.200	0.192840E+01	-0.358070E+01	-0.180400E+00	0.536880E+01
9.400	0.192540E+01	-0.362560E+01	0.920000E-01	0.531940E+01
9.600	0.192520E+01	-0.365980E+01	0.117400E+00	0.527020E+01
9.800	0.192750E+01	-0.353260E+01	0.106200E+01	0.522200E+01
10.000	0.193110E+01	-0.147750E+01	0.340080E+01	0.517380E+01
10.200	0.193290E+01	-0.901400E+00	0.360900E+01	0.512280E+01
10.400	0.192720E+01	-0.765100E+00	0.364790E+01	0.506150E+01
10.600	0.190150E+01	-0.741400E+00	0.366090E+01	0.497070E+01
10.800	0.182230E+01	-0.792700E+00	0.366700E+01	0.479350E+01
11.000	0.157210E+01	-0.927300E+00	0.364160E+01	0.430700E+01
11.200	0.886200E+00	-0.920400E+00	0.328180E+01	-0.278360E+01
11.400	0.402200E+00	-0.462000E+00	0.250810E+01	-0.936300E+00
11.600	0.339300E+00	-0.183000E+00	0.206110E+01	-0.108300E+00
11.800	0.354900E+00	-0.566000E-01	0.184050E+01	-0.249000E+00
12.000	0.379600E+00	-0.830000E-02	0.171610E+01	-0.430300E+00
12.200	0.402200E+00	0.460000E-01	0.163720E+01	-0.533700E+00
12.400	0.420800E+00	0.699000E-01	0.158190E+01	-0.597100E+00
12.600	0.435300E+00	0.863000E-01	0.153970E+01	-0.637700E+00
12.800	0.446100E+00	0.984000E-01	0.150460E+01	-0.663500E+00
13.000	0.453400E+00	0.107900E+00	0.147320E+01	-0.678600E+00
13.200	0.457800E+00	0.115600E+00	0.144340E+01	-0.685600E+00
13.400	0.459400E+00	0.122300E+00	0.141360E+01	-0.685500E+00
13.600	0.458600E+00	0.128300E+00	0.138300E+01	-0.679200E+00
13.800	0.455800E+00	0.133700E+00	0.135090E+01	-0.667000E+00
14.000	0.451100E+00	0.138700E+00	0.131690E+01	-0.649600E+00
14.200	0.444900E+00	0.143400E+00	0.128090E+01	-0.627100E+00
14.400	0.437300E+00	0.147800E+00	0.124280E+01	-0.600200E+00
14.600	0.428500E+00	0.152000E+00	0.120270E+01	-0.569600E+00
15.000	0.408400E+00	0.159500E+00	0.111710E+01	-0.499900E+00
15.200	0.397400E+00	0.162900E+00	0.107230E+01	-0.462200E+00
15.400	0.362200E+00	0.171700E+00	0.933700E+00	-0.342100E+00
15.800	0.325900E+00	0.178100E+00	0.804200E+00	-0.179800E+00
16.000	0.314000E+00	0.179700E+00	0.769600E+00	-0.240000E-01
16.800	0.302400E+00	0.181000E+00	0.527600E+00	0.486900E+00
17.000	0.290900E+00	0.182100E+00	0.321100E+00	0.585100E+00
17.200	0.279700E+00	0.182800E+00	0.249900E+00	0.566300E+00
17.400	0.268800E+00	0.183300E+00	0.208300E+00	0.534100E+00
17.600	0.258300E+00	0.183500E+00	0.176900E+00	0.498600E+00
17.800	0.248100E+00	0.183500E+00	0.151700E+00	0.463400E+00
18.000	0.238300E+00	0.183200E+00	0.130600E+00	0.429300E+00
18.200	0.228900E+00	0.182600E+00	0.112100E+00	0.396700E+00
18.400	0.219800E+00	0.181800E+00	0.959000E-01	0.365800E+00
18.600	0.211100E+00	0.180700E+00	0.816000E-01	0.336700E+00
18.800	0.202800E+00	0.179500E+00	0.689000E-01	0.309500E+00
19.000	0.194800E+00	0.178000E+00	0.575000E-01	0.284000E+00
19.200	0.187200E+00	0.176300E+00	0.477000E-01	0.260600E+00
19.600	0.173000E+00	0.172500E+00	0.305000E-01	0.218100E+00
19.800	0.166400E+00	0.170400E+00	0.234000E-01	0.199300E+00
20.000	0.160100E+00	0.168100E+00	0.174000E-01	0.182300E+00
20.200	0.154100E+00	0.165800E+00	0.115000E-01	0.166200E+00
20.400	0.148400E+00	0.163300E+00	0.700000E-02	0.151800E+00
20.600	0.142900E+00	0.160800E+00	0.220000E-02	0.138100E+00
20.800	0.137700E+00	0.158100E+00	0.150000E-02	0.125800E+00
21.000	0.132800E+00	0.155500E+00	0.520000E-02	0.114100E+00
21.200	0.128100E+00	0.152700E+00	0.800000E-02	0.103800E+00

21.400	0.123600E+00	0.150000E+00	0.105000E-01	0.944000E-01
21.600	0.119400E+00	0.147200E+00	0.126000E-01	0.857000E-01
21.800	0.115300E+00	0.144400E+00	0.143000E-01	0.778000E-01
22.000	0.111500E+00	0.141500E+00	0.158000E-01	0.706000E-01
22.200	0.107800E+00	0.138700E+00	0.170000E-01	0.640000E-01
22.400	0.104300E+00	0.135900E+00	0.180000E-01	0.581000E-01
22.600	0.101000E+00	0.133100E+00	0.189000E-01	0.524000E-01
22.800	0.978000E-01	0.130400E+00	0.195000E-01	0.474000E-01
23.000	0.947000E-01	0.127600E+00	0.200000E-01	0.427000E-01
23.200	0.918000E-01	0.124900E+00	0.203000E-01	0.385000E-01
23.400	0.890000E-01	0.122300E+00	0.205000E-01	0.346000E-01
23.600	0.863000E-01	0.119600E+00	0.207000E-01	0.309000E-01
23.800	0.838000E-01	0.117100E+00	0.207000E-01	0.277000E-01
24.000	0.813000E-01	0.114500E+00	0.206000E-01	0.247000E-01
24.200	0.790000E-01	0.112000E+00	0.205000E-01	0.220000E-01
24.400	0.768000E-01	0.109600E+00	0.203000E-01	0.194000E-01
24.600	0.746000E-01	0.107200E+00	0.201000E-01	0.171000E-01
24.800	0.725000E-01	0.104900E+00	0.198000E-01	0.150000E-01
25.000	0.706000E-01	0.102600E+00	0.195000E-01	0.131000E-01
25.200	0.687000E-01	0.100400E+00	0.191000E-01	0.113000E-01
25.400	0.668000E-01	0.982000E-01	0.187000E-01	0.970000E-02
25.600	0.651000E-01	0.961000E-01	0.184000E-01	0.810000E-02
25.800	0.634000E-01	0.940000E-01	0.180000E-01	0.670000E-02
26.000	0.618000E-01	0.920000E-01	0.176000E-01	0.540000E-02
26.200	0.602000E-01	0.901000E-01	0.172000E-01	0.430000E-02
26.400	0.587000E-01	0.882000E-01	0.167000E-01	0.330000E-02
26.600	0.572000E-01	0.863000E-01	0.163000E-01	0.220000E-02
26.800	0.558000E-01	0.845000E-01	0.157000E-01	0.160000E-02
28.000	0.484000E-01	0.747000E-01	0.136000E-01	0.300000E-02
29.800	0.398000E-01	0.626000E-01	0.108000E-01	0.670000E-02
30.000	0.390000E-01	0.614000E-01	0.105000E-01	0.690000E-02
30.200	0.382000E-01	0.603000E-01	0.103000E-01	0.720000E-02
30.400	0.375000E-01	0.592000E-01	0.100000E-01	0.740000E-02
30.600	0.368000E-01	0.581000E-01	0.980000E-02	0.760000E-02
30.800	0.360000E-01	0.571000E-01	0.960000E-02	0.780000E-02

The following tables display the dipole moment functions between the three lowest Π states with the seven lowest Π states of **NaCs**, for singlet (Tables 1 to 3) and triplet (Tables 4 to 6) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr =0.0529177 nm, and 1 a.u. =2.54158059 Debye. All states are identified with their number with increasing energy. When both indexes are equal, the function corresponds to the permanent dipole moment.

Table 1: (1)¹Π -(1-7)¹Π transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.800	0.222000E-01	0.731400E+00	-0.194750E+01	-0.699700E+00	-0.510600E+00	-0.465500E+00	-0.182470E+01
4.000	-0.732000E-01	0.952600E+00	-0.193630E+01	-0.668000E+00	-0.382200E+00	-0.757500E+00	-0.168790E+01
4.200	-0.222200E+00	0.116300E+01	-0.189760E+01	-0.679900E+00	0.586000E-01	-0.103420E+01	-0.158870E+01
4.600	-0.116660E+01	0.108150E+01	-0.179160E+01	-0.111910E+01	0.480500E+00	-0.177360E+01	-0.758200E+00
4.800	-0.167200E+01	0.427700E+00	-0.150170E+01	-0.162400E+01	0.122250E+01	-0.143830E+01	-0.414000E-01
5.000	-0.117500E+01	0.145010E+01	-0.107250E+01	-0.174700E+01	0.154410E+01	-0.875500E+00	0.274900E+00
5.200	-0.811800E+00	0.184520E+01	-0.767700E+00	-0.172540E+01	0.165010E+01	-0.647600E+00	0.384000E+00
5.400	-0.574600E+00	0.208740E+01	-0.532400E+00	-0.164060E+01	0.172550E+01	-0.547700E+00	0.459400E+00
5.600	-0.394700E+00	0.227780E+01	-0.354300E+00	-0.149870E+01	0.179870E+01	-0.497500E+00	0.530100E+00
5.800	-0.243900E+00	0.244150E+01	-0.236000E+00	-0.131390E+01	0.186470E+01	-0.467100E+00	0.598500E+00
6.000	-0.109200E+00	0.258580E+01	-0.175200E+00	-0.111280E+01	0.191140E+01	-0.444400E+00	0.664200E+00
6.200	0.160000E-01	0.271280E+01	-0.164300E+00	-0.922600E+00	0.193240E+01	-0.420600E+00	0.720100E+00
6.400	0.135700E+00	0.282280E+01	-0.193100E+00	-0.759100E+00	0.193170E+01	-0.393300E+00	0.763100E+00
6.600	0.252000E+00	0.291570E+01	-0.252100E+00	-0.625200E+00	0.191770E+01	-0.362000E+00	0.791400E+00
6.800	0.366200E+00	0.299140E+01	-0.332700E+00	-0.516100E+00	0.189790E+01	-0.327400E+00	0.806700E+00
7.000	0.478500E+00	0.305020E+01	-0.428200E+00	-0.425100E+00	0.187660E+01	-0.289500E+00	0.809500E+00
7.200	0.588100E+00	0.309250E+01	-0.532800E+00	-0.346400E+00	0.185550E+01	-0.248200E+00	0.801100E+00
7.400	0.694000E+00	0.311950E+01	-0.641400E+00	-0.275700E+00	0.183490E+01	-0.203700E+00	0.782700E+00
7.600	0.794200E+00	0.313260E+01	-0.749400E+00	-0.210300E+00	0.181410E+01	-0.156000E+00	0.755500E+00
7.800	0.886600E+00	0.313420E+01	-0.852300E+00	-0.148800E+00	0.179240E+01	-0.105600E+00	0.723000E+00
8.200	0.103900E+01	0.311530E+01	-0.102380E+01	-0.357000E-01	0.174300E+01	-0.210000E-02	0.629800E+00
8.400	0.109490E+01	0.310300E+01	-0.108220E+01	0.153000E-01	0.171460E+01	0.580000E-01	0.576300E+00
8.600	0.113540E+01	0.309480E+01	-0.111500E+01	0.620000E-01	0.168370E+01	0.114300E+00	0.519000E+00
8.800	0.116000E+01	0.309490E+01	-0.111630E+01	0.103500E+00	0.165050E+01	0.170200E+00	0.459700E+00
9.000	0.116870E+01	0.310610E+01	-0.108090E+01	0.139200E+00	0.161590E+01	0.225000E+00	0.400500E+00
9.200	0.116250E+01	0.312870E+01	-0.100560E+01	0.168700E+00	0.158050E+01	0.278200E+00	0.342000E+00
9.400	0.114270E+01	0.315960E+01	-0.891800E+00	0.191800E+00	0.154550E+01	0.329400E+00	0.286000E+00
9.600	0.111120E+01	0.319270E+01	-0.747600E+00	0.208200E+00	0.151160E+01	0.378000E+00	0.235000E+00
9.800	0.106990E+01	0.322120E+01	-0.587700E+00	0.218200E+00	0.147980E+01	0.423300E+00	0.190900E+00
10.000	0.102120E+01	0.324080E+01	-0.428600E+00	0.222200E+00	0.145090E+01	0.465300E+00	0.154600E+00
10.200	0.967100E+00	0.325050E+01	-0.283300E+00	0.220700E+00	0.142530E+01	0.503800E+00	0.126800E+00
10.400	0.909500E+00	0.325190E+01	-0.158600E+00	0.214700E+00	0.140350E+01	0.538700E+00	0.108400E+00
10.600	0.850200E+00	0.324730E+01	-0.555000E-01	0.205000E+00	0.138530E+01	0.569800E+00	0.100100E+00
10.800	0.790600E+00	0.323890E+01	0.279000E-01	0.192300E+00	0.137090E+01	0.597300E+00	0.102400E+00
11.000	0.732000E+00	0.322820E+01	0.947000E-01	0.177400E+00	0.136010E+01	0.621000E+00	0.115900E+00
11.200	0.675200E+00	0.321610E+01	0.148200E+00	0.160900E+00	0.135280E+01	0.641100E+00	0.141700E+00
11.400	0.620900E+00	0.320340E+01	0.191100E+00	0.143400E+00	0.134880E+01	0.657300E+00	0.180900E+00
11.600	0.569700E+00	0.319030E+01	0.225400E+00	0.125400E+00	0.134800E+01	0.669800E+00	0.235000E+00
11.800	0.521700E+00	0.317730E+01	0.252800E+00	0.107300E+00	0.135030E+01	0.678500E+00	0.305700E+00
12.000	0.477300E+00	0.316430E+01	0.274500E+00	0.894000E-01	0.135570E+01	0.683100E+00	0.394700E+00
12.200	0.436500E+00	0.315170E+01	0.291500E+00	0.722000E-01	0.136390E+01	0.683700E+00	0.502600E+00
12.400	0.399100E+00	0.313950E+01	0.304500E+00	0.561000E-01	0.137490E+01	0.680000E+00	0.627700E+00
12.600	0.365100E+00	0.312780E+01	0.314000E+00	0.412000E-01	0.138850E+01	0.672000E+00	0.762900E+00
12.800	0.334400E+00	0.311650E+01	0.320600E+00	0.278000E-01	0.140440E+01	0.659800E+00	0.895400E+00
13.000	0.306800E+00	0.310570E+01	0.324500E+00	0.161000E-01	0.142230E+01	0.643300E+00	0.101070E+01
13.200	0.282000E+00	0.309550E+01	0.326200E+00	0.610000E-02	0.144180E+01	0.622700E+00	0.109940E+01
13.400	0.259900E+00	0.308570E+01	0.326000E+00	-0.230000E-02	0.146240E+01	0.598300E+00	0.116030E+01
13.600	0.240300E+00	0.307650E+01	0.324200E+00	-0.910000E-02	0.148370E+01	0.570400E+00	0.119800E+01
13.800	0.222800E+00	0.306770E+01	0.320900E+00	-0.146000E-01	0.150530E+01	0.539600E+00	0.121840E+01
14.000	0.207400E+00	0.305940E+01	0.316500E+00	-0.189000E-01	0.152670E+01	0.506500E+00	0.122660E+01
14.200	0.193700E+00	0.305160E+01	0.311100E+00	-0.223000E-01	0.154750E+01	0.471600E+00	0.122630E+01
14.400	0.181800E+00	0.304410E+01	0.304900E+00	-0.249000E-01	0.156750E+01	0.435800E+00	0.122020E+01
14.600	0.171200E+00	0.303700E+01	0.298000E+00	-0.269000E-01	0.158630E+01	0.399600E+00	0.120930E+01
15.000	0.153900E+00	0.302380E+01	0.282900E+00	-0.297000E-01	0.161980E+01	0.329000E+00	0.118180E+01
15.200	0.146900E+00	0.301760E+01	0.274900E+00	-0.307000E-01	0.163440E+01	0.295600E+00	0.116720E+01
15.600	0.135300E+00	0.300610E+01	0.258400E+00	-0.323000E-01	0.165910E+01	0.235000E+00	0.113740E+01
15.800	0.130700E+00	0.300070E+01	0.250000E+00	-0.330000E-01	0.166930E+01	0.208100E+00	0.112340E+01
16.000	0.126600E+00	0.299550E+01	0.241700E+00	-0.336000E-01	0.167830E+01	0.183800E+00	0.111040E+01
16.200	0.123100E+00	0.299060E+01	0.233400E+00	-0.341000E-01	0.168610E+01	0.161900E+00	0.109860E+01
16.400	0.120000E+00	0.298570E+01	0.225300E+00	-0.345000E-01	0.169270E+01	0.142500E+00	0.108800E+01
16.600	0.117300E+00	0.298110E+01	0.217200E+00	-0.349000E-01	0.169840E+01	0.125300E+00	0.107890E+01
16.800	0.115000E+00	0.297660E+01	0.209400E+00	-0.351000E-01	0.170320E+01	0.110200E+00	0.107130E+01
17.000	0.113000E+00	0.297220E+01	0.201700E+00	-0.353000E-01	0.170720E+01	0.969000E-01	0.106500E+01
17.200	0.111200E+00	0.296800E+01	0.194200E+00	-0.353000E-01	0.171050E+01	0.854000E-01	0.106010E+01
17.400	0.109600E+00	0.296390E+01	0.186900E+00	-0.352000E-01	0.171320E+01	0.754000E-01	0.105650E+01
17.600	0.108200E+00	0.295990E+01	0.179900E+00	-0.349000E-01	0.171540E+01	0.668000E-01	0.105400E+01

17.800	0.106900E+00	0.295610E+01	0.173100E+00	-0.345000E-01	0.171710E+01	0.592000E-01	0.105260E+01
18.000	0.105800E+00	0.295230E+01	0.166500E+00	-0.339000E-01	0.171850E+01	0.527000E-01	0.105220E+01
18.200	0.104700E+00	0.294870E+01	0.160200E+00	-0.332000E-01	0.171950E+01	0.471000E-01	0.105260E+01
18.400	0.103800E+00	0.294510E+01	0.154100E+00	-0.323000E-01	0.172020E+01	0.421000E-01	0.105400E+01
18.600	0.102900E+00	0.294170E+01	0.148200E+00	-0.313000E-01	0.172060E+01	0.378000E-01	0.105580E+01
18.800	0.102000E+00	0.293830E+01	0.142600E+00	-0.302000E-01	0.172080E+01	0.340000E-01	0.105820E+01
19.000	0.101200E+00	0.293510E+01	0.137200E+00	-0.289000E-01	0.172090E+01	0.307000E-01	0.106100E+01
19.200	0.100500E+00	0.293190E+01	0.132000E+00	-0.275000E-01	0.172080E+01	0.278000E-01	0.106430E+01
19.600	0.989000E-01	0.292580E+01	0.122200E+00	-0.244000E-01	0.172020E+01	0.229000E-01	0.107150E+01
19.800	0.982000E-01	0.292290E+01	0.117700E+00	-0.226000E-01	0.171980E+01	0.208000E-01	0.107550E+01
20.000	0.974000E-01	0.292010E+01	0.113300E+00	-0.209000E-01	0.171940E+01	0.189000E-01	0.107970E+01
20.200	0.967000E-01	0.291730E+01	0.109100E+00	-0.190000E-01	0.171880E+01	0.172000E-01	0.108400E+01
20.400	0.959000E-01	0.291470E+01	0.105100E+00	-0.171000E-01	0.171830E+01	0.155000E-01	0.108850E+01
20.600	0.951000E-01	0.291210E+01	0.101200E+00	-0.151000E-01	0.171770E+01	0.140000E-01	0.109300E+01
20.800	0.943000E-01	0.290960E+01	0.976000E-01	-0.132000E-01	0.171700E+01	0.126000E-01	0.109760E+01
21.000	0.935000E-01	0.290710E+01	0.940000E-01	-0.112000E-01	0.171640E+01	0.113000E-01	0.110220E+01
21.200	0.927000E-01	0.290480E+01	0.907000E-01	0.920000E-02	0.171570E+01	0.100000E-01	0.110690E+01
25.000	0.759000E-01	0.287140E+01	0.477000E-01	0.218000E-01	0.170500E+01	0.920000E-02	0.119380E+01
25.200	0.750000E-01	0.287020E+01	0.462000E-01	0.228000E-01	0.170450E+01	0.990000E-02	0.119800E+01
25.400	0.741000E-01	0.286890E+01	0.448000E-01	0.238000E-01	0.170410E+01	0.106000E-01	0.120210E+01
26.200	0.706000E-01	0.286440E+01	0.397000E-01	0.269000E-01	0.170260E+01	0.130000E-01	0.121770E+01
26.600	0.689000E-01	0.286230E+01	0.374000E-01	0.281000E-01	0.170180E+01	0.141000E-01	0.122480E+01
26.800	0.681000E-01	0.286130E+01	0.363000E-01	0.286000E-01	0.170150E+01	0.145000E-01	0.122830E+01
27.000	0.673000E-01	0.286030E+01	0.352000E-01	0.291000E-01	0.170110E+01	0.149000E-01	0.123160E+01
27.400	0.656000E-01	0.285850E+01	0.333000E-01	0.299000E-01	0.170040E+01	0.157000E-01	0.123770E+01
29.600	0.576000E-01	0.285010E+01	0.245000E-01	0.314000E-01	0.169650E+01	0.173000E-01	0.126120E+01
29.800	0.569000E-01	0.284950E+01	0.239000E-01	0.314000E-01	0.169610E+01	0.173000E-01	0.126250E+01
30.600	0.543000E-01	0.284710E+01	0.215000E-01	0.311000E-01	0.169450E+01	0.169000E-01	0.126620E+01

Table 2: (2)¹Π -(2-7)¹Π transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.800	-0.280000E-02	-0.966400E+00	-0.114400E+01	0.177640E+01	-0.129670E+01	-0.149600E+00
4.000	0.332000E-01	-0.953100E+00	-0.129840E+01	0.200180E+01	-0.588500E+00	-0.739000E-01
4.200	0.146800E+00	-0.881900E+00	-0.137480E+01	0.197330E+01	-0.279900E+00	-0.146300E+00
4.600	0.115180E+01	-0.256600E+00	-0.122400E+01	0.176380E+01	0.342400E+00	-0.543600E+00
4.800	0.175450E+01	-0.539800E+00	-0.540100E+00	0.131530E+01	0.150490E+01	-0.670000E-01
5.000	0.138550E+01	-0.795100E+00	-0.174000E-01	0.895100E+00	0.193840E+01	-0.355000E-01
5.200	0.116650E+01	-0.693200E+00	0.290500E+00	0.708500E+00	0.210880E+01	0.370000E-01
5.400	0.107490E+01	-0.471800E+00	0.457900E+00	0.602400E+00	0.224240E+01	0.119300E+00
5.600	0.102960E+01	-0.194900E+00	0.565400E+00	0.523700E+00	0.236450E+01	0.214000E+00
5.800	0.992700E+00	0.106100E+00	0.629100E+00	0.456800E+00	0.247400E+01	0.318800E+00
6.000	0.945400E+00	0.410200E+00	0.662800E+00	0.398000E+00	0.256980E+01	0.429900E+00
6.200	0.878500E+00	0.702000E+00	0.679400E+00	0.344900E+00	0.265070E+01	0.537000E+00
6.400	0.788800E+00	0.971100E+00	0.689900E+00	0.292300E+00	0.272050E+01	0.634900E+00
6.600	0.676800E+00	0.121040E+01	0.701000E+00	0.234100E+00	0.278200E+01	0.719000E+00
6.800	0.545700E+00	0.141630E+01	0.716000E+00	0.165800E+00	0.284010E+01	0.792000E+00
7.000	0.400000E+00	0.158730E+01	0.735600E+00	0.853000E-01	0.289570E+01	0.853700E+00
7.200	0.244800E+00	0.172350E+01	0.758900E+00	-0.640000E-02	0.294950E+01	0.905800E+00
7.400	0.859000E-01	0.182650E+01	0.784200E+00	-0.106700E+00	0.300120E+01	0.948800E+00
7.600	-0.702000E-01	0.189850E+01	0.809800E+00	-0.212100E+00	0.304970E+01	0.983200E+00
7.800	-0.217100E+00	0.194210E+01	0.834100E+00	-0.318100E+00	0.309360E+01	0.100790E+01
8.200	-0.455600E+00	0.195300E+01	0.873800E+00	-0.511000E+00	0.316000E+01	0.102270E+01
8.400	-0.533500E+00	0.192370E+01	0.887300E+00	-0.586000E+00	0.317780E+01	0.100880E+01
8.600	-0.575500E+00	0.187170E+01	0.895100E+00	-0.637300E+00	0.318100E+01	0.976900E+00
8.800	-0.577100E+00	0.179590E+01	0.895200E+00	-0.657400E+00	0.316520E+01	0.926400E+00
9.000	-0.537200E+00	0.169350E+01	0.885300E+00	-0.638800E+00	0.312560E+01	0.856500E+00
9.200	-0.459800E+00	0.156160E+01	0.862400E+00	-0.576500E+00	0.305560E+01	0.767700E+00
9.400	-0.356300E+00	0.140000E+01	0.824000E+00	-0.470600E+00	0.295290E+01	0.665700E+00
9.600	-0.244400E+00	0.121460E+01	0.769800E+00	-0.328700E+00	0.281860E+01	0.556200E+00
9.800	-0.142300E+00	0.101960E+01	0.703200E+00	-0.166900E+00	0.266110E+01	0.450400E+00
10.000	-0.618000E-01	0.833100E+00	0.630600E+00	0.400000E-02	0.249430E+01	0.357700E+00
10.200	-0.530000E-02	0.670200E+00	0.559200E+00	-0.144100E+00	0.233170E+01	0.284600E+00
10.400	0.311000E-01	0.538200E+00	0.494700E+00	-0.268800E+00	0.218330E+01	0.233400E+00
10.600	0.533000E-01	0.437400E+00	0.440700E+00	-0.367500E+00	0.205350E+01	0.203600E+00
10.800	0.664000E-01	0.363700E+00	0.398700E+00	-0.441800E+00	0.194320E+01	0.193000E+00
11.000	0.739000E-01	0.311600E+00	0.369000E+00	-0.495000E+00	0.185120E+01	0.199700E+00
11.200	0.778000E-01	0.275900E+00	0.350900E+00	-0.530600E+00	0.177500E+01	0.222400E+00
11.400	0.792000E-01	0.252000E+00	0.343400E+00	-0.552100E+00	0.171270E+01	0.260900E+00
11.600	0.788000E-01	0.236500E+00	0.345300E+00	-0.562100E+00	0.166220E+01	0.316200E+00
11.800	0.769000E-01	0.226600E+00	0.355200E+00	-0.562800E+00	0.162200E+01	0.390600E+00
12.000	0.737000E-01	0.220400E+00	0.371600E+00	-0.555900E+00	0.159090E+01	0.487500E+00
12.200	0.693000E-01	0.216300E+00	0.393300E+00	-0.542600E+00	0.156820E+01	0.610700E+00
12.400	0.639000E-01	0.213400E+00	0.418800E+00	-0.523900E+00	0.155310E+01	0.761600E+00
12.600	0.576000E-01	0.211000E+00	0.447000E+00	-0.500900E+00	0.154530E+01	0.935500E+00
12.800	0.506000E-01	0.208600E+00	0.476800E+00	-0.474100E+00	0.154450E+01	0.111830E+01
13.000	0.430000E-01	0.206000E+00	0.507300E+00	-0.444400E+00	0.155040E+01	0.128930E+01
13.200	0.350000E-01	0.203000E+00	0.537500E+00	-0.412300E+00	0.156280E+01	0.143100E+01
13.400	0.266000E-01	0.199600E+00	0.566800E+00	-0.378500E+00	0.158140E+01	0.153670E+01
13.600	0.181000E-01	0.195700E+00	0.594700E+00	-0.343600E+00	0.160580E+01	0.160820E+01
13.800	0.950000E-02	0.191300E+00	0.620900E+00	-0.308300E+00	0.163550E+01	0.165060E+01
14.000	0.900000E-03	0.186600E+00	0.645000E+00	-0.273000E+00	0.166980E+01	0.166970E+01
14.200	-0.750000E-02	0.181600E+00	0.667100E+00	-0.238300E+00	0.170790E+01	0.167020E+01
14.400	-0.158000E-01	0.176400E+00	0.686900E+00	-0.204500E+00	0.174890E+01	0.165550E+01
14.600	-0.238000E-01	0.171000E+00	0.704700E+00	-0.172000E+00	0.179160E+01	0.162900E+01
15.000	-0.389000E-01	0.160000E+00	0.734400E+00	-0.111800E+00	0.187870E+01	0.154740E+01
15.200	-0.459000E-01	0.154500E+00	0.746600E+00	-0.845000E-01	0.192110E+01	0.149640E+01
15.600	-0.588000E-01	0.143700E+00	0.766500E+00	-0.354000E-01	0.199970E+01	0.138140E+01
15.800	-0.646000E-01	0.138500E+00	0.774400E+00	-0.138000E-01	0.203470E+01	0.132060E+01
16.000	-0.700000E-01	0.133400E+00	0.781200E+00	0.600000E-02	0.206640E+01	0.125900E+01
16.200	-0.751000E-01	0.128500E+00	0.787000E+00	0.241000E-01	0.209470E+01	0.119760E+01
16.400	-0.797000E-01	0.123800E+00	0.791800E+00	0.404000E-01	0.211970E+01	0.113710E+01
16.600	-0.840000E-01	0.119200E+00	0.795900E+00	0.551000E-01	0.214140E+01	0.107820E+01
16.800	-0.879000E-01	0.114800E+00	0.799200E+00	0.683000E-01	0.216010E+01	0.102120E+01
17.000	-0.915000E-01	0.110700E+00	0.801900E+00	0.801000E-01	0.217590E+01	0.966700E+00
17.200	-0.948000E-01	0.106700E+00	0.804000E+00	0.905000E-01	0.218930E+01	0.914900E+00
17.400	-0.977000E-01	0.102900E+00	0.805600E+00	0.997000E-01	0.220030E+01	0.865800E+00
17.600	-0.100300E+00	0.992000E-01	0.806700E+00	0.107800E+00	0.220930E+01	0.819600E+00
17.800	-0.102700E+00	0.958000E-01	0.807400E+00	0.114800E+00	0.221650E+01	0.776200E+00
18.000	-0.104800E+00	0.925000E-01	0.807800E+00	0.120900E+00	0.222220E+01	0.735500E+00
18.200	-0.106700E+00	0.893000E-01	0.807800E+00	0.126000E+00	0.222650E+01	0.697600E+00
18.400	-0.108300E+00	0.864000E-01	0.807600E+00	0.130400E+00	0.222980E+01	0.662400E+00
18.600	-0.109700E+00	0.835000E-01	0.807200E+00	0.134000E+00	0.223210E+01	0.629700E+00
18.800	-0.110900E+00	0.808000E-01	0.806500E+00	0.136900E+00	0.223350E+01	0.599400E+00
19.000	-0.112000E+00	0.783000E-01	0.805600E+00	0.139200E+00	0.223420E+01	0.571400E+00
19.200	-0.112800E+00	0.758000E-01	0.804600E+00	0.141000E+00	0.223430E+01	0.545600E+00
19.600	-0.114100E+00	0.713000E-01	0.802100E+00	0.143000E+00	0.223320E+01	0.499600E+00
19.800	-0.114500E+00	0.692000E-01	0.800700E+00	0.143300E+00	0.223210E+01	0.479300E+00

20.000	-0.114800E+00	0.672000E-01	0.799200E+00	0.143300E+00	0.223080E+01	0.460500E+00
20.200	-0.115000E+00	0.652000E-01	0.797700E+00	0.143000E+00	0.222930E+01	0.443200E+00
20.400	-0.115100E+00	0.634000E-01	0.796100E+00	0.142300E+00	0.222760E+01	0.427300E+00
20.600	-0.115100E+00	0.617000E-01	0.794500E+00	0.141400E+00	0.222580E+01	0.412600E+00
20.800	-0.115000E+00	0.600000E-01	0.792800E+00	0.140300E+00	0.222400E+01	0.399100E+00
21.000	-0.114800E+00	0.584000E-01	0.791200E+00	0.138900E+00	0.222200E+01	0.386700E+00
21.200	-0.114500E+00	0.568000E-01	0.789500E+00	0.137300E+00	0.222010E+01	0.375200E+00
25.000	-0.101600E+00	0.360000E-01	0.762500E+00	0.939000E-01	0.219450E+01	0.263800E+00
25.200	-0.100700E+00	0.353000E-01	0.761500E+00	0.916000E-01	0.219400E+01	0.260900E+00
25.400	-0.998000E-01	0.345000E-01	0.760500E+00	0.893000E-01	0.219350E+01	0.258200E+00
26.200	-0.963000E-01	0.317000E-01	0.757000E+00	0.808000E-01	0.219250E+01	0.248700E+00
26.600	-0.945000E-01	0.304000E-01	0.755400E+00	0.768000E-01	0.219230E+01	0.244000E+00
26.800	-0.936000E-01	0.298000E-01	0.754600E+00	0.749000E-01	0.219220E+01	0.241700E+00
27.000	-0.928000E-01	0.292000E-01	0.753900E+00	0.730000E-01	0.219230E+01	0.239400E+00
27.400	-0.910000E-01	0.280000E-01	0.752600E+00	0.694000E-01	0.219240E+01	0.235000E+00
29.600	-0.817000E-01	0.226000E-01	0.746600E+00	0.538000E-01	0.219520E+01	0.212100E+00
29.800	-0.809000E-01	0.222000E-01	0.746200E+00	0.528000E-01	0.219550E+01	0.210100E+00
30.600	-0.778000E-01	0.206000E-01	0.744500E+00	0.489000E-01	0.219670E+01	0.202200E+00

Table 3: (3)¹Π -(3-7)¹Π transitions

R	3-3	3-4	3-5	3-6	3-7
3.800	-0.168310E+01	0.123570E+01	0.216870E+01	-0.165970E+01	-0.389000E+00
4.000	-0.161110E+01	0.145190E+01	0.138160E+01	-0.224890E+01	-0.316300E+00
4.200	-0.152380E+01	0.163740E+01	0.299200E+00	-0.256020E+01	-0.268600E+00
4.600	-0.151050E+01	0.208560E+01	0.302200E+00	-0.236620E+01	-0.557700E+00
4.800	-0.166660E+01	0.233890E+01	0.446800E+00	-0.181810E+01	-0.731300E+00
5.000	-0.195880E+01	0.257270E+01	0.617600E+00	-0.163540E+01	-0.262500E+00
5.200	-0.236990E+01	0.273940E+01	0.817800E+00	-0.166350E+01	-0.411200E+00
5.400	-0.284040E+01	0.279500E+01	0.105170E+01	-0.174220E+01	-0.421700E+00
5.600	-0.328820E+01	0.272570E+01	0.131430E+01	-0.180930E+01	-0.410400E+00
5.800	-0.364870E+01	0.255580E+01	0.158580E+01	-0.184070E+01	-0.414900E+00
6.000	-0.389540E+01	0.233100E+01	0.183790E+01	-0.183270E+01	-0.447500E+00
6.200	-0.403200E+01	0.209790E+01	0.204960E+01	-0.178940E+01	-0.501200E+00
6.400	-0.407680E+01	0.188710E+01	0.221640E+01	-0.172030E+01	-0.568200E+00
6.600	-0.405170E+01	0.171070E+01	0.234400E+01	-0.163410E+01	-0.638800E+00
6.800	-0.397800E+01	0.156770E+01	0.244130E+01	-0.154130E+01	-0.710200E+00
7.000	-0.387260E+01	0.145310E+01	0.251510E+01	-0.144790E+01	-0.777000E+00
7.200	-0.375030E+01	0.136060E+01	0.257140E+01	-0.136070E+01	-0.839400E+00
7.400	-0.362180E+01	0.128610E+01	0.261510E+01	-0.128440E+01	-0.896600E+00
7.600	-0.349610E+01	0.122650E+01	0.265050E+01	-0.122340E+01	-0.949200E+00
7.800	-0.337950E+01	0.118070E+01	0.268170E+01	-0.118140E+01	-0.997500E+00
8.200	-0.319420E+01	0.113130E+01	0.274630E+01	-0.116730E+01	-0.108190E+01
8.400	-0.313350E+01	0.113020E+01	0.278580E+01	-0.120160E+01	-0.111850E+01
8.600	-0.309860E+01	0.114750E+01	0.283340E+01	-0.126810E+01	-0.115170E+01
8.800	-0.309130E+01	0.118540E+01	0.289010E+01	-0.136910E+01	-0.117990E+01
9.000	-0.311080E+01	0.124570E+01	0.295490E+01	-0.150580E+01	-0.120140E+01
9.200	-0.315160E+01	0.132940E+01	0.302470E+01	-0.167660E+01	-0.121670E+01
9.400	-0.320150E+01	0.143480E+01	0.309260E+01	-0.187290E+01	-0.122150E+01
9.600	-0.324290E+01	0.155730E+01	0.315000E+01	-0.207890E+01	-0.121010E+01
9.800	-0.325790E+01	0.169000E+01	0.318830E+01	-0.227610E+01	-0.118030E+01
10.000	-0.323570E+01	0.182500E+01	0.320290E+01	-0.244850E+01	-0.113400E+01
10.200	-0.317470E+01	0.195570E+01	0.319320E+01	-0.258710E+01	-0.107450E+01
10.400	-0.308050E+01	0.207620E+01	0.316200E+01	-0.269030E+01	-0.100660E+01
10.600	-0.296060E+01	0.218200E+01	0.311310E+01	-0.276160E+01	-0.934400E+00
10.800	-0.282210E+01	0.226920E+01	0.305050E+01	-0.280620E+01	-0.860800E+00
11.000	-0.267050E+01	0.233460E+01	0.297770E+01	-0.282920E+01	-0.787000E+00
11.200	-0.251010E+01	0.237600E+01	0.289750E+01	-0.283500E+01	-0.712700E+00
11.400	-0.234460E+01	0.239220E+01	0.281210E+01	-0.282710E+01	-0.636100E+00
11.600	-0.217700E+01	0.238320E+01	0.272300E+01	-0.280810E+01	-0.553400E+00
11.800	-0.201010E+01	0.234990E+01	0.263140E+01	-0.277980E+01	-0.459400E+00
12.000	-0.184620E+01	0.229400E+01	0.253770E+01	-0.274350E+01	-0.347000E+00
12.200	-0.168770E+01	0.221820E+01	0.244220E+01	-0.270010E+01	-0.208000E+00
12.400	-0.153610E+01	0.212540E+01	0.234490E+01	-0.265010E+01	-0.352000E-01
12.600	-0.139290E+01	0.201890E+01	0.224560E+01	-0.259390E+01	0.172700E+00
12.800	-0.125900E+01	0.190230E+01	0.214420E+01	-0.253150E+01	0.405700E+00
13.000	-0.113500E+01	0.177890E+01	0.204070E+01	-0.246280E+01	0.643000E+00
13.200	-0.102110E+01	0.165210E+01	0.193520E+01	-0.238760E+01	0.862200E+00
13.400	-0.917200E+00	0.152490E+01	0.182810E+01	-0.230610E+01	0.105080E+01
13.600	-0.823000E+00	0.139960E+01	0.171990E+01	-0.221820E+01	0.120600E+01
13.800	-0.738000E+00	0.127840E+01	0.161140E+01	-0.212400E+01	0.133020E+01
14.000	-0.661700E+00	0.116270E+01	0.150360E+01	-0.202410E+01	0.142810E+01
14.200	-0.593400E+00	0.105370E+01	0.139730E+01	-0.191910E+01	0.150370E+01
14.400	-0.532400E+00	0.952000E+00	0.129350E+01	-0.180990E+01	0.156010E+01
14.600	-0.478000E+00	0.857900E+00	0.119300E+01	-0.169750E+01	0.159790E+01
15.000	-0.386600E+00	0.692300E+00	0.100490E+01	-0.146940E+01	0.163020E+01
15.200	-0.348300E+00	0.620300E+00	0.918200E+00	-0.135670E+01	0.162820E+01
15.600	-0.284100E+00	0.495800E+00	0.760900E+00	-0.114010E+01	0.158970E+01
15.800	-0.257100E+00	0.442300E+00	0.690400E+00	-0.103830E+01	0.155600E+01
16.000	-0.233100E+00	0.394100E+00	-0.625200E+00	-0.942000E+00	0.151440E+01
16.200	-0.211700E+00	-0.350700E+00	0.565100E+00	-0.851700E+00	0.146650E+01
16.400	-0.192600E+00	-0.311600E+00	0.510000E+00	-0.767600E+00	0.141320E+01
16.600	-0.175500E+00	-0.276400E+00	0.459500E+00	-0.689800E+00	0.135600E+01
16.800	-0.160100E+00	-0.244800E+00	0.413400E+00	-0.618300E+00	0.129510E+01
17.000	-0.146400E+00	-0.216400E+00	0.371500E+00	-0.552900E+00	0.123350E+01
17.200	-0.133900E+00	-0.190900E+00	0.333300E+00	-0.493100E+00	0.117110E+01
17.400	-0.122800E+00	-0.168000E+00	0.298600E+00	-0.438800E+00	0.110890E+01
17.600	-0.112700E+00	-0.147500E+00	0.267300E+00	-0.389600E+00	0.104740E+01
17.800	-0.103500E+00	-0.129200E+00	0.238800E+00	-0.345200E+00	0.987200E+00
18.000	-0.952000E-01	-0.112800E+00	0.213200E+00	-0.305000E+00	0.928800E+00
18.200	-0.877000E-01	-0.981000E-01	0.190000E+00	-0.269000E+00	0.872500E+00
18.400	-0.808000E-01	-0.850000E-01	0.169100E+00	-0.236300E+00	0.819600E+00
18.600	-0.745000E-01	-0.733000E-01	0.150300E+00	-0.207000E+00	0.768300E+00
18.800	-0.688000E-01	-0.629000E-01	0.133400E+00	-0.180700E+00	0.719800E+00
19.000	-0.635000E-01	-0.536000E-01	0.118200E+00	-0.157100E+00	0.673900E+00
19.200	-0.587000E-01	-0.453000E-01	0.104600E+00	-0.135800E+00	0.631600E+00
19.600	-0.501000E-01	-0.316000E-01	0.815000E-01	-0.999000E-01	0.552700E+00
19.800	-0.463000E-01	-0.258000E-01	0.717000E-01	-0.847000E-01	0.517000E+00

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3 20.000 -0.428000E-01 -0.208000E-01 0.630000E-01 -0.712000E-01 0.483600E+00
4 20.200 -0.395000E-01 -0.163000E-01 0.552000E-01 -0.592000E-01 0.452400E+00
5 20.400 -0.365000E-01 -0.124000E-01 0.484000E-01 -0.484000E-01 0.423400E+00
6 20.600 -0.337000E-01 -0.900000E-02 0.422000E-01 -0.389000E-01 0.396400E+00
7 20.800 -0.311000E-01 -0.600000E-02 0.368000E-01 -0.304000E-01 0.371200E+00
8 21.000 -0.287000E-01 -0.340000E-02 0.320000E-01 -0.229000E-01 0.347800E+00
9 21.200 -0.264000E-01 -0.120000E-02 0.278000E-01 -0.163000E-01 0.326000E+00
10 25.000 -0.290000E-02 0.990000E-02 0.200000E-02 0.228000E-01 0.109400E+00
11 25.200 -0.230000E-02 0.980000E-02 0.190000E-02 0.228000E-01 0.104100E+00
12 25.400 -0.170000E-02 0.960000E-02 0.190000E-02 0.227000E-01 0.991000E-01
13 26.200 0.200000E-03 0.900000E-02 0.190000E-02 0.221000E-01 0.819000E-01
14 26.600 0.100000E-02 0.860000E-02 0.200000E-02 0.213000E-01 0.750000E-01
15 26.800 0.140000E-02 0.840000E-02 0.210000E-02 0.210000E-01 0.718000E-01
16 27.000 0.170000E-02 0.830000E-02 0.220000E-02 0.205000E-01 0.688000E-01
17 27.400 0.240000E-02 0.790000E-02 0.240000E-02 0.197000E-01 0.633000E-01
18 29.600 0.480000E-02 0.600000E-02 0.360000E-02 0.148000E-01 0.424000E-01
19 29.800 0.490000E-02 0.580000E-02 0.360000E-02 0.144000E-01 0.411000E-01
20 30.600 0.540000E-02 0.520000E-02 0.390000E-02 0.128000E-01 0.363000E-01
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Table 4: (1)³Π - (1-7)³Π transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.800	-0.222360E+01	0.610000E-01	-0.248910E+01	-0.829900E+00	0.954900E+00	-0.302200E+00	-0.218100E+00
4.000	-0.227730E+01	0.127300E+00	-0.243270E+01	-0.966200E+00	0.906400E+00	-0.580700E+00	-0.101180E+01
4.200	-0.230990E+01	0.181200E+00	-0.237290E+01	-0.101840E+01	0.945500E+00	-0.756800E+00	-0.899800E+00
4.600	-0.233160E+01	0.278300E+00	-0.224270E+01	-0.107610E+01	0.106110E+01	-0.948700E+00	-0.431600E+00
4.800	-0.232830E+01	0.331000E+00	-0.217420E+01	-0.109890E+01	0.112500E+01	-0.951100E+00	-0.102400E+00
5.000	-0.232040E+01	0.390000E+00	-0.210470E+01	-0.111750E+01	0.120010E+01	-0.938100E+00	-0.492300E+00
5.200	-0.231100E+01	0.455900E+00	-0.203720E+01	-0.111980E+01	0.129480E+01	-0.922000E+00	-0.519700E+00
5.400	-0.230260E+01	0.528000E+00	-0.201250E+01	-0.101220E+01	0.141950E+01	-0.905300E+00	-0.541100E+00
5.600	-0.229690E+01	0.605600E+00	-0.163270E+01	-0.140110E+01	0.158570E+01	-0.888500E+00	-0.564200E+00
5.800	-0.229500E+01	0.687400E+00	-0.144030E+01	-0.139130E+01	0.179600E+01	-0.872500E+00	-0.590400E+00
6.000	-0.229750E+01	0.772300E+00	-0.144000E+01	-0.109970E+01	0.201880E+01	-0.859200E+00	-0.620400E+00
6.200	-0.230440E+01	0.859300E+00	-0.146400E+01	-0.750700E+00	0.218920E+01	-0.852900E+00	-0.654300E+00
6.400	-0.231550E+01	0.947800E+00	-0.149440E+01	-0.456600E+00	0.228050E+01	-0.860900E+00	-0.691700E+00
6.600	-0.233060E+01	0.103710E+01	-0.152560E+01	-0.260700E+00	0.231710E+01	-0.893800E+00	-0.731800E+00
6.800	-0.234900E+01	0.112690E+01	-0.155490E+01	-0.153200E+00	0.232460E+01	-0.959600E+00	-0.772900E+00
7.000	-0.237030E+01	0.121680E+01	-0.157960E+01	-0.115300E+00	0.232210E+01	-0.104350E+01	-0.812900E+00
7.200	-0.239380E+01	0.130670E+01	-0.159710E+01	-0.133800E+00	0.233780E+01	-0.109600E+01	-0.849500E+00
7.400	-0.241900E+01	0.139630E+01	-0.160390E+01	-0.200800E+00	0.239250E+01	-0.107950E+01	-0.880900E+00
7.600	-0.244530E+01	0.148550E+01	-0.159630E+01	-0.311400E+00	0.247580E+01	-0.100710E+01	-0.905600E+00
7.800	-0.247200E+01	0.157430E+01	-0.156980E+01	-0.461100E+00	0.256540E+01	-0.913000E+00	-0.922600E+00
8.200	-0.252390E+01	0.175060E+01	-0.144750E+01	-0.857100E+00	0.271220E+01	-0.734400E+00	-0.931900E+00
8.400	-0.254750E+01	0.183840E+01	-0.135050E+01	-0.109190E+01	0.275550E+01	-0.658700E+00	-0.923300E+00
8.600	-0.256830E+01	0.192620E+01	-0.123360E+01	-0.134460E+01	0.276980E+01	-0.590700E+00	-0.905100E+00
8.800	-0.258530E+01	0.201430E+01	-0.110260E+01	-0.161220E+01	0.274680E+01	-0.528600E+00	-0.876600E+00
9.000	-0.259730E+01	0.210320E+01	-0.964200E+00	-0.189120E+01	0.267780E+01	-0.470700E+00	-0.836400E+00
9.200	-0.260290E+01	0.219310E+01	-0.824100E+00	-0.217440E+01	0.255680E+01	-0.415900E+00	-0.783000E+00
9.400	-0.260080E+01	0.228440E+01	-0.686900E+00	-0.244720E+01	0.238540E+01	-0.363400E+00	-0.714100E+00
9.600	-0.258940E+01	0.237740E+01	-0.555700E+00	-0.268950E+01	0.217790E+01	-0.312700E+00	-0.627000E+00
9.800	-0.256710E+01	0.247220E+01	-0.432400E+00	-0.288340E+01	0.195840E+01	-0.263500E+00	-0.519000E+00
10.000	-0.253220E+01	0.256860E+01	-0.317700E+00	-0.302050E+01	0.175190E+01	-0.215900E+00	-0.387600E+00
10.200	-0.248340E+01	0.266590E+01	-0.211900E+00	-0.310240E+01	0.157490E+01	-0.170000E+00	-0.232300E+00
10.400	-0.241920E+01	0.276350E+01	-0.114900E+00	-0.313610E+01	0.143320E+01	-0.126000E+00	-0.553000E-01
10.600	-0.233900E+01	0.285980E+01	-0.262000E-01	-0.312990E+01	0.132530E+01	-0.837000E-01	0.137000E+00
10.800	-0.224250E+01	0.295320E+01	0.544000E-01	-0.309110E+01	0.124590E+01	-0.429000E-01	0.335300E+00
11.000	-0.213020E+01	0.304150E+01	0.127200E+00	-0.302590E+01	0.118880E+01	0.290000E-02	0.529400E+00
11.200	-0.200380E+01	0.312250E+01	0.192200E+00	-0.294000E+01	0.114780E+01	0.372000E-01	0.710600E+00
11.400	-0.186540E+01	0.319420E+01	0.249500E+00	-0.283810E+01	0.111790E+01	0.785000E-01	0.872700E+00
11.600	-0.171840E+01	0.325480E+01	0.299000E+00	-0.272480E+01	0.109500E+01	0.121900E+00	0.101270E+01
11.800	-0.156640E+01	0.330330E+01	0.340700E+00	-0.260430E+01	0.107610E+01	0.168400E+00	0.112940E+01
12.000	-0.141340E+01	0.333930E+01	0.374600E+00	-0.248050E+01	0.105920E+01	0.218300E+00	0.122280E+01
12.200	-0.126300E+01	0.336310E+01	0.400900E+00	-0.235650E+01	0.104310E+01	0.271300E+00	0.129370E+01
12.400	-0.111850E+01	0.337580E+01	0.419900E+00	-0.223540E+01	0.102730E+01	0.326800E+00	0.134290E+01
12.600	-0.982200E+00	0.337890E+01	0.432100E+00	-0.211900E+01	0.101150E+01	0.384000E+00	0.137100E+01
12.800	-0.855900E+00	0.337400E+01	0.438200E+00	-0.200910E+01	0.995900E+00	0.441600E+00	0.137820E+01
13.000	-0.740600E+00	0.336280E+01	0.439100E+00	-0.190670E+01	0.980600E+00	0.498500E+00	0.136420E+01
13.200	-0.636600E+00	0.334690E+01	0.435400E+00	-0.181220E+01	0.965800E+00	0.553600E+00	0.132700E+01
13.400	-0.543600E+00	0.332780E+01	0.428200E+00	-0.172580E+01	0.951800E+00	0.606100E+00	0.126370E+01
13.600	-0.461200E+00	0.330660E+01	0.418200E+00	-0.164730E+01	0.938700E+00	0.655300E+00	0.116870E+01
13.800	-0.388500E+00	0.328430E+01	0.406200E+00	-0.157650E+01	0.926700E+00	0.700800E+00	0.103490E+01
14.000	-0.324800E+00	0.326150E+01	0.392700E+00	-0.151280E+01	0.915800E+00	0.742500E+00	0.856300E+00
14.200	-0.269200E+00	0.323880E+01	0.378400E+00	-0.145560E+01	0.906000E+00	0.780200E+00	0.635500E+00
14.400	-0.220600E+00	0.321660E+01	0.363600E+00	-0.140440E+01	0.897400E+00	0.814000E+00	0.392000E+00
14.600	-0.178400E+00	0.319510E+01	0.348800E+00	-0.135850E+01	0.889900E+00	0.844200E+00	0.158000E+00
15.000	-0.109900E+00	0.315520E+01	0.319600E+00	-0.128060E+01	0.878300E+00	0.894400E+00	0.198900E+00
15.200	-0.822000E-01	0.313680E+01	0.305600E+00	-0.124750E+01	0.874000E+00	0.915000E+00	0.319400E+00
15.600	-0.374000E-01	0.310340E+01	0.279300E+00	-0.119090E+01	0.868600E+00	0.948500E+00	0.482600E+00
15.800	-0.194000E-01	0.308840E+01	0.266900E+00	-0.116650E+01	0.867300E+00	0.961800E+00	0.538800E+00
16.000	-0.370000E-02	0.307430E+01	0.255200E+00	-0.114440E+01	0.867000E+00	0.973200E+00	0.584100E+00
16.200	0.990000E-02	0.306130E+01	0.244000E+00	-0.112420E+01	0.867700E+00	0.982700E+00	0.621400E+00
16.400	0.217000E-01	0.304910E+01	0.233400E+00	-0.110570E+01	0.869300E+00	0.990600E+00	0.652700E+00
16.600	0.319000E-01	0.303780E+01	0.223300E+00	-0.108860E+01	0.872000E+00	0.997000E+00	0.679400E+00
16.800	0.408000E-01	0.302730E+01	0.213800E+00	-0.107270E+01	0.875700E+00	0.100200E+01	0.702300E+00
17.000	0.485000E-01	0.301750E+01	0.204700E+00	-0.105780E+01	0.880600E+00	0.100570E+01	0.721900E+00
17.200	0.551000E-01	0.300840E+01	0.196100E+00	-0.104370E+01	0.886600E+00	0.100820E+01	0.738300E+00
17.400	0.609000E-01	0.299990E+01	0.187900E+00	-0.103010E+01	0.893800E+00	0.100950E+01	0.750500E+00
17.600	0.659000E-01	0.299200E+01	0.180200E+00	-0.101700E+01	0.902400E+00	0.100970E+01	0.754300E+00
17.800	0.702000E-01	0.298460E+01	0.172800E+00	-0.100410E+01	0.912500E+00	0.100890E+01	0.708100E+00
18.000	0.738000E-01	0.297770E+01	0.165800E+00	-0.991100E+00	0.924000E+00	0.100700E+01	0.474500E+00
18.200	0.770000E-01	0.297120E+01	0.159100E+00	-0.977800E+00	0.937200E+00	0.100410E+01	0.584600E+00
18.400	0.797000E-01	0.296510E+01	0.152800E+00	-0.964000E+00	0.952200E+00	0.100010E+01	0.619200E+00
18.600	0.820000E-01	0.295940E+01	0.146800E+00	-0.949300E+00	0.969100E+00	0.995100E+00	0.641200E+00
18.800	0.839000E-01	0.295410E+01	0.141100E+00	-0.933500E+00	0.988000E+00	0.989100E+00	0.657600E+00
19.000	0.854000E-01	0.294900E+01	0.135600E+00	-0.916300E+00	0.100900E+01	0.982000E+00	0.670600E+00
19.200	0.867000E-01	0.294430E+01	0.130400E+00	-0.897100E+00	0.103220E+01	0.973900E+00	0.680900E+00
19.600	0.886000E-01	0.293550E+01	0.120700E+00	-0.852000E+00	0.108510E+01	0.954300E+00	0.695900E+00
19.800	0.892000E-01	0.293150E+01	0.116200E+00	-0.825300E+00	0.111460E+01	0.942800E+00	0.701200E+00

20.000 0.896000E-01 0.292770E+01 0.111900E+00 -0.795500E+00 0.114590E+01 0.930200E+00 0.705200E+00
20.200 0.899000E-01 0.292400E+01 0.107800E+00 -0.762500E+00 0.117860E+01 0.916500E+00 0.708100E+00
20.400 0.900000E-01 0.292060E+01 0.103800E+00 -0.726300E+00 0.121220E+01 0.901700E+00 0.710100E+00
20.600 0.900000E-01 0.291730E+01 0.100100E+00 -0.687200E+00 0.124620E+01 0.885700E+00 0.711200E+00
20.800 0.899000E-01 0.291420E+01 0.965000E-01 -0.645700E+00 0.128000E+01 0.868600E+00 0.711700E+00
21.000 0.897000E-01 0.291120E+01 0.930000E-01 -0.602300E+00 0.131300E+01 0.850500E+00 0.711500E+00
21.200 0.894000E-01 0.290840E+01 0.898000E-01 -0.558000E+00 0.134470E+01 0.831400E+00 0.710800E+00
25.000 0.757000E-01 0.287170E+01 0.476000E-01 -0.588000E-01 0.163510E+01 0.392800E+00 0.655800E+00
25.200 0.748000E-01 0.287040E+01 0.461000E-01 -0.499000E-01 0.164050E+01 0.372000E+00 0.652700E+00
25.400 0.739000E-01 0.286920E+01 0.447000E-01 -0.418000E-01 0.164550E+01 0.351800E+00 0.649600E+00
26.200 0.705000E-01 0.286450E+01 0.396000E-01 -0.167000E-01 0.166130E+01 0.277500E+00 0.638500E+00
26.600 0.688000E-01 0.286240E+01 0.373000E-01 -0.750000E-02 0.166720E+01 0.244300E+00 0.633700E+00
26.800 0.680000E-01 0.286140E+01 0.363000E-01 -0.360000E-02 0.166980E+01 0.228700E+00 0.631600E+00
27.400 0.656000E-01 0.285860E+01 0.332000E-01 0.600000E-02 0.167600E+01 0.185900E+00 0.626300E+00
29.600 0.576000E-01 0.285010E+01 0.245000E-01 0.234000E-01 0.168700E+01 0.763000E-01 0.628100E+00
29.800 0.569000E-01 0.284950E+01 0.239000E-01 0.242000E-01 0.168740E+01 0.696000E-01 0.630500E+00
30.600 0.543000E-01 0.284710E+01 0.215000E-01 0.262000E-01 0.168830E+01 0.473000E-01 0.644700E+00

Table 5: (2)³Π -(2-7)³Π transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.800	0.105720E+01	0.449600E+00	0.251000E+00	-0.209190E+01	0.117790E+01	0.132180E+01
4.000	0.116140E+01	0.423400E+00	0.725000E+00	-0.164510E+01	0.976200E+00	0.134900E+00
4.200	0.130290E+01	0.417600E+00	0.868900E+00	-0.142280E+01	0.101440E+01	0.814000E-01
4.600	0.166490E+01	0.440200E+00	0.928200E+00	-0.117020E+01	0.136130E+01	-0.834000E-01
4.800	0.186790E+01	0.458900E+00	0.910200E+00	-0.106650E+01	0.149930E+01	-0.111400E+00
5.000	0.207410E+01	0.477300E+00	0.871800E+00	-0.957600E+00	0.163710E+01	-0.362800E+00
5.200	0.227580E+01	0.488800E+00	0.818800E+00	-0.835100E+00	0.177860E+01	-0.365600E+00
5.400	0.246710E+01	0.456600E+00	0.776100E+00	-0.692500E+00	0.192000E+01	-0.354200E+00
5.600	0.264350E+01	0.480200E+00	0.683100E+00	-0.525100E+00	0.205680E+01	-0.339600E+00
5.800	0.280230E+01	0.460300E+00	0.593800E+00	-0.332100E+00	0.218500E+01	-0.324800E+00
6.000	0.294180E+01	0.346400E+00	0.530600E+00	-0.129800E+00	0.230110E+01	-0.311000E+00
6.200	0.306130E+01	0.211600E+00	0.419600E+00	-0.408000E-01	0.240280E+01	-0.298600E+00
6.400	0.316080E+01	0.639000E-01	0.273000E+00	-0.143800E+00	0.248900E+01	-0.287800E+00
6.600	0.324090E+01	-0.934000E-01	0.119200E+00	-0.172900E+00	0.256010E+01	-0.278700E+00
6.800	0.330220E+01	-0.258100E+00	-0.228800E-01	-0.137000E+00	0.261620E+01	-0.271400E+00
7.000	0.334560E+01	-0.428000E+00	-0.141700E+00	-0.678000E-01	0.265560E+01	-0.266300E+00
7.200	0.337200E+01	-0.601200E+00	-0.229900E+00	0.331000E-01	0.267920E+01	-0.263400E+00
7.400	0.338240E+01	-0.775000E+00	-0.281500E+00	0.828000E-01	0.269080E+01	-0.263000E+00
7.600	0.337770E+01	-0.945900E+00	-0.291700E+00	0.199900E+00	0.269030E+01	-0.265200E+00
7.800	0.335880E+01	-0.110940E+01	-0.257800E+00	0.341700E+00	0.267770E+01	-0.269500E+00
8.200	0.328150E+01	-0.139310E+01	-0.586000E-01	0.606900E+00	0.262830E+01	-0.282800E+00
8.400	0.322440E+01	-0.150380E+01	0.991000E-01	0.715100E+00	0.259810E+01	-0.289900E+00
8.600	0.315580E+01	-0.159040E+01	0.287700E+00	0.802000E+00	0.256680E+01	-0.295800E+00
8.800	0.307600E+01	-0.165360E+01	0.500900E+00	0.862800E+00	0.253530E+01	-0.299200E+00
9.000	0.298540E+01	-0.169610E+01	0.732800E+00	0.891000E+00	0.250420E+01	-0.298500E+00
9.200	0.288420E+01	-0.172140E+01	0.977000E+00	0.880600E+00	0.247370E+01	-0.291900E+00
9.400	0.277240E+01	-0.173330E+01	0.122490E+01	0.828600E+00	0.244400E+01	-0.278200E+00
9.600	0.265010E+01	-0.173480E+01	0.146620E+01	0.739800E+00	0.241530E+01	-0.255700E+00
9.800	0.251730E+01	-0.172840E+01	0.169200E+01	0.626900E+00	0.238760E+01	-0.223800E+00
10.000	0.237390E+01	-0.171570E+01	0.189830E+01	0.505900E+00	0.236130E+01	-0.183000E+00
10.200	0.222010E+01	-0.169770E+01	0.208580E+01	0.390300E+00	0.233650E+01	-0.135100E+00
10.400	0.205610E+01	-0.167510E+01	0.225780E+01	0.287900E+00	0.231370E+01	-0.842000E-01
10.600	0.188280E+01	-0.164800E+01	0.241700E+01	0.202400E+00	0.229320E+01	-0.358000E-01
10.800	0.170120E+01	-0.161650E+01	0.256530E+01	0.133800E+00	0.227530E+01	-0.400000E-02
11.000	0.151330E+01	-0.158050E+01	0.270300E+01	0.809000E-01	0.226030E+01	-0.305000E-01
11.200	0.132170E+01	-0.153980E+01	0.282970E+01	0.416000E-01	0.224810E+01	-0.412000E-01
11.400	0.112960E+01	-0.149450E+01	0.294410E+01	0.132000E-01	0.223830E+01	-0.362000E-01
11.600	0.941000E+00	-0.144450E+01	0.304490E+01	-0.680000E-02	0.223020E+01	-0.173000E-01
11.800	0.759700E+00	-0.138990E+01	0.313070E+01	-0.207000E-01	0.222290E+01	0.127000E-01
12.000	0.589700E+00	-0.133080E+01	0.320040E+01	-0.308000E-01	0.221520E+01	0.505000E-01
12.200	0.434400E+00	-0.126760E+01	0.325340E+01	-0.387000E-01	0.220620E+01	0.928000E-01
12.400	0.296100E+00	-0.120060E+01	0.328930E+01	-0.456000E-01	0.219490E+01	0.136800E+00
12.600	0.176300E+00	-0.113030E+01	0.330820E+01	-0.523000E-01	0.218070E+01	0.179800E+00
12.800	0.755000E-01	-0.105710E+01	0.331090E+01	-0.594000E-01	0.216340E+01	0.219800E+00
13.000	-0.710000E-02	-0.981900E+00	0.329820E+01	-0.669000E-01	0.214290E+01	0.255000E+00
13.200	-0.727000E-01	-0.905400E+00	0.327130E+01	-0.749000E-01	0.211940E+01	0.284600E+00
13.400	-0.123100E+00	-0.828400E+00	0.323170E+01	-0.833000E-01	0.209350E+01	0.307800E+00
13.600	-0.160500E+00	-0.752000E+00	0.318110E+01	-0.918000E-01	0.206560E+01	0.324200E+00
13.800	-0.186900E+00	-0.677710E+00	0.312110E+01	-0.100300E+00	0.203620E+01	0.333700E+00
14.000	-0.204600E+00	-0.604700E+00	0.305350E+01	-0.108600E+00	0.200590E+01	0.335900E+00
14.200	-0.215300E+00	-0.535400E+00	0.297980E+01	-0.116500E+00	0.197510E+01	0.330500E+00
14.400	-0.220700E+00	-0.470100E+00	0.290180E+01	-0.123900E+00	0.194440E+01	0.318400E+00
14.600	-0.222100E+00	-0.409200E+00	0.282070E+01	-0.130700E+00	0.191400E+01	0.302100E+00
15.000	-0.217400E+00	-0.301800E+00	0.265460E+01	-0.142300E+00	0.185510E+01	0.270300E+00
15.200	-0.212900E+00	-0.255500E+00	0.257160E+01	-0.147100E+00	0.182710E+01	0.258500E+00
15.600	-0.201800E+00	-0.176800E+00	0.240940E+01	-0.154400E+00	0.177420E+01	0.244200E+00
15.800	-0.196000E+00	-0.144100E+00	0.233130E+01	-0.157000E+00	0.174950E+01	0.240900E+00
16.000	-0.190300E+00	-0.115300E+00	0.225570E+01	-0.158800E+00	0.172590E+01	0.239800E+00
16.200	-0.184700E+00	-0.901000E-01	0.218270E+01	-0.159800E+00	0.170350E+01	0.240400E+00
16.400	-0.179400E+00	-0.681000E-01	0.211260E+01	-0.160000E+00	0.168230E+01	0.242500E+00
16.600	-0.174400E+00	-0.491000E-01	0.204540E+01	-0.159500E+00	0.166220E+01	0.246000E+00
16.800	-0.169800E+00	-0.327000E-01	0.198120E+01	-0.158100E+00	0.164320E+01	0.250900E+00
17.000	-0.165500E+00	-0.186000E-01	0.191980E+01	-0.155800E+00	0.162540E+01	0.257600E+00
17.200	-0.161500E+00	-0.650000E-02	0.186140E+01	-0.152600E+00	0.160860E+01	0.267000E+00
17.400	-0.157800E+00	0.380000E-02	0.180570E+01	-0.148300E+00	0.159290E+01	0.281700E+00
17.600	-0.154400E+00	0.125000E-01	0.175270E+01	-0.143100E+00	0.157830E+01	0.311600E+00
17.800	-0.151300E+00	0.199000E-01	0.170230E+01	-0.136600E+00	0.156470E+01	0.437100E+00
18.000	-0.148500E+00	0.261000E-01	0.165430E+01	-0.129000E+00	0.155210E+01	0.140670E+01
18.200	-0.145800E+00	0.313000E-01	0.160870E+01	-0.120000E+00	0.154060E+01	0.142390E+01
18.400	-0.143400E+00	0.356000E-01	0.156530E+01	-0.109600E+00	0.153010E+01	0.144660E+01
18.600	-0.141200E+00	0.392000E-01	0.152400E+01	-0.976000E-01	0.152060E+01	0.146970E+01
18.800	-0.139100E+00	0.420000E-01	0.148460E+01	-0.841000E-01	0.151210E+01	0.149200E+01
19.000	-0.137100E+00	0.444000E-01	0.144690E+01	-0.688000E-01	0.150460E+01	0.151310E+01
19.200	-0.135300E+00	0.462000E-01	0.141080E+01	-0.517000E-01	0.149820E+01	0.153290E+01
19.600	-0.132000E+00	0.487000E-01	0.134280E+01	-0.122000E-01	0.148820E+01	0.156830E+01
19.800	-0.130500E+00	0.494000E-01	0.131040E+01	0.101000E-01	0.148480E+01	0.158390E+01

20.000	-0.129100E+00	0.499000E-01	0.127890E+01	0.338000E-01	0.148230E+01	0.159810E+01
20.200	-0.127700E+00	0.502000E-01	0.124800E+01	0.587000E-01	0.148080E+01	0.161100E+01
20.400	-0.126400E+00	0.502000E-01	0.121780E+01	0.841000E-01	0.148020E+01	0.162260E+01
20.600	-0.125200E+00	0.502000E-01	0.118800E+01	0.109700E+00	0.148060E+01	0.163280E+01
20.800	-0.123900E+00	0.499000E-01	0.115870E+01	0.134600E+00	0.148200E+01	0.164180E+01
21.000	-0.122800E+00	0.496000E-01	0.112990E+01	0.158200E+00	0.148420E+01	0.164940E+01
21.200	-0.121600E+00	0.492000E-01	0.110170E+01	0.179800E+00	0.148730E+01	0.165580E+01
25.000	-0.102300E+00	0.355000E-01	0.807300E+00	0.179200E+00	0.168750E+01	0.154740E+01
25.200	-0.101300E+00	0.348000E-01	0.801800E+00	0.171400E+00	0.170440E+01	0.152960E+01
25.400	-0.100400E+00	0.341000E-01	0.796800E+00	0.163700E+00	0.172160E+01	0.151070E+01
26.200	-0.966000E-01	0.315000E-01	0.781000E+00	0.135800E+00	0.179380E+01	0.142330E+01
26.600	-0.948000E-01	0.302000E-01	0.775000E+00	0.123600E+00	0.183040E+01	0.137450E+01
26.800	-0.939000E-01	0.296000E-01	0.772300E+00	0.118000E+00	0.184860E+01	0.134900E+01
27.000	-0.930000E-01	0.290000E-01	0.769900E+00	0.112700E+00	0.186660E+01	0.132280E+01
27.400	-0.912000E-01	0.279000E-01	0.765600E+00	0.102900E+00	0.190180E+01	0.126900E+01
29.600	-0.818000E-01	0.226000E-01	0.750900E+00	0.664000E-01	0.205720E+01	0.970900E+00
29.800	-0.810000E-01	0.221000E-01	0.750100E+00	0.642000E-01	0.206750E+01	0.945800E+00
30.600	-0.778000E-01	0.206000E-01	0.747100E+00	0.568000E-01	0.210260E+01	0.851000E+00

Table 6: (3)³Π -(3-7)³Π transitions

R	3-3	3-4	3-5	3-6	3-7
3.800	0.742400E+00	-0.212000E-01	0.251400E+00	-0.156900E+01	0.163270E+01
4.000	0.718600E+00	-0.850000E-01	0.135100E+00	-0.231100E+01	0.187300E+00
4.200	0.690300E+00	-0.166900E+00	-0.236000E-01	-0.208230E+01	0.122330E+01
4.600	0.659400E+00	-0.253800E+00	-0.296500E+00	-0.526800E+00	0.241430E+01
4.800	0.660500E+00	-0.277200E+00	-0.404900E+00	-0.144000E-01	0.201570E+01
5.000	0.670400E+00	-0.310400E+00	-0.515300E+00	0.322000E+00	-0.801000E-01
5.200	0.686200E+00	-0.404300E+00	-0.652500E+00	0.602100E+00	-0.293300E+00
5.400	0.642000E+00	-0.915100E+00	-0.896200E+00	0.816500E+00	-0.651200E+00
5.600	-0.642760E+01	-0.170010E+01	-0.163910E+01	0.132830E+01	-0.330840E+01
5.800	-0.682910E+01	-0.810000E+00	-0.160950E+01	0.130350E+01	-0.335880E+01
6.000	-0.691920E+01	-0.847000E+00	-0.159530E+01	0.106360E+01	-0.338050E+01
6.200	-0.698470E+01	-0.975200E+00	-0.154900E+01	0.791100E+00	-0.339750E+01
6.400	-0.703580E+01	-0.104430E+01	-0.151340E+01	0.514100E+00	-0.340690E+01
6.600	-0.707160E+01	-0.101480E+01	-0.152240E+01	0.253700E+00	-0.340540E+01
6.800	-0.708760E+01	-0.890000E+00	-0.158210E+01	0.290000E-01	-0.339020E+01
7.000	-0.707760E+01	-0.679500E+00	-0.168480E+01	-0.155600E+00	-0.335840E+01
7.200	-0.703280E+01	-0.392500E+00	-0.180780E+01	-0.327000E+00	-0.330660E+01
7.400	-0.694200E+01	-0.391000E-01	-0.191840E+01	-0.515400E+00	-0.323090E+01
7.600	-0.679300E+01	0.366700E+00	-0.199210E+01	-0.712000E+00	-0.312730E+01
7.800	-0.657500E+01	0.804400E+00	-0.202130E+01	-0.886100E+00	-0.299250E+01
8.200	-0.592330E+01	0.166360E+01	-0.195220E+01	-0.109780E+01	-0.263040E+01
8.400	-0.551320E+01	0.202830E+01	-0.185760E+01	-0.113470E+01	-0.241430E+01
8.600	-0.507920E+01	0.232530E+01	-0.172550E+01	-0.113670E+01	-0.218870E+01
8.800	-0.464900E+01	0.255210E+01	-0.155860E+01	-0.111420E+01	-0.196540E+01
9.000	-0.424440E+01	0.271590E+01	-0.136050E+01	-0.107630E+01	-0.175410E+01
9.200	-0.387870E+01	0.282760E+01	-0.113770E+01	-0.102990E+01	-0.156180E+01
9.400	-0.355720E+01	0.289610E+01	-0.902600E+00	-0.979200E+00	-0.139180E+01
9.600	-0.327930E+01	0.292930E+01	-0.674400E+00	-0.926500E+00	-0.124570E+01
9.800	-0.304150E+01	0.293580E+01	-0.473900E+00	-0.872700E+00	-0.112390E+01
10.000	-0.283880E+01	0.292600E+01	-0.315600E+00	-0.817600E+00	-0.102570E+01
10.200	-0.266580E+01	0.290990E+01	-0.203300E+00	-0.760700E+00	-0.950200E+00
10.400	-0.251770E+01	0.289460E+01	-0.132600E+00	-0.701200E+00	-0.896700E+00
10.600	-0.238990E+01	0.288410E+01	-0.957000E-01	-0.638400E+00	-0.864300E+00
10.800	-0.227890E+01	0.287980E+01	0.839000E-01	-0.571700E+00	-0.851400E+00
11.000	-0.218120E+01	0.288160E+01	0.901000E-01	-0.500900E+00	-0.855400E+00
11.200	-0.209410E+01	0.288890E+01	0.108100E+00	-0.426300E+00	-0.873200E+00
11.400	-0.201500E+01	0.290080E+01	0.133300E+00	-0.348500E+00	-0.900900E+00
11.600	-0.194180E+01	0.291590E+01	0.162000E+00	-0.268500E+00	-0.935300E+00
11.800	-0.187240E+01	0.293300E+01	0.191700E+00	-0.187400E+00	-0.973500E+00
12.000	-0.180510E+01	0.295050E+01	0.220500E+00	-0.106600E+00	-0.101330E+01
12.200	-0.173810E+01	0.296680E+01	0.247000E+00	-0.272000E-01	-0.105320E+01
12.400	-0.167010E+01	0.297980E+01	0.270500E+00	0.495000E-01	-0.109200E+01
12.600	-0.159980E+01	0.298750E+01	0.290500E+00	0.122600E+00	-0.112880E+01
12.800	-0.152640E+01	0.298790E+01	0.306900E+00	0.191300E+00	-0.116250E+01
13.000	-0.144950E+01	0.297910E+01	0.319700E+00	0.255000E+00	-0.119190E+01
13.200	-0.136890E+01	0.295930E+01	0.329200E+00	0.313100E+00	-0.121510E+01
13.400	-0.128510E+01	0.292730E+01	0.335600E+00	0.365300E+00	-0.122930E+01
13.600	-0.119870E+01	0.288230E+01	0.339300E+00	0.411500E+00	-0.123020E+01
13.800	-0.111080E+01	0.282410E+01	0.340600E+00	0.451500E+00	-0.121100E+01
14.000	-0.102280E+01	0.275310E+01	0.339900E+00	0.485400E+00	-0.116280E+01
14.200	-0.936000E+00	0.267040E+01	0.337400E+00	0.513300E+00	-0.107780E+01
14.400	-0.851500E+00	0.257730E+01	0.333500E+00	0.535500E+00	-0.957400E+00
14.600	-0.770700E+00	0.247550E+01	0.328500E+00	0.552400E+00	-0.816300E+00
15.000	-0.623200E+00	0.225390E+01	0.316100E+00	0.571900E+00	-0.544200E+00
15.200	-0.557600E+00	0.213790E+01	0.309000E+00	0.575300E+00	-0.430900E+00
15.600	-0.443600E+00	0.190400E+01	0.293900E+00	0.572000E+00	-0.250400E+00
15.800	-0.395000E+00	0.178900E+01	0.286200E+00	0.566200E+00	-0.178900E+00
16.000	-0.351600E+00	0.167670E+01	0.278500E+00	0.558100E+00	-0.117300E+00
16.200	-0.313000E+00	0.156780E+01	0.270900E+00	0.548200E+00	-0.640000E-01
16.400	-0.278800E+00	0.146310E+01	0.263400E+00	0.536800E+00	-0.178000E-01
16.600	-0.248600E+00	0.136300E+01	0.256000E+00	0.524200E+00	0.225000E-01
16.800	-0.222000E+00	0.126760E+01	0.248900E+00	0.510600E+00	0.576000E-01
17.000	-0.198600E+00	0.117710E+01	0.242100E+00	0.496300E+00	0.887000E-01
17.200	-0.177900E+00	0.109150E+01	0.235500E+00	0.481400E+00	0.116900E+00
17.400	-0.159700E+00	0.101080E+01	0.229300E+00	0.466200E+00	0.144200E+00
17.600	-0.143700E+00	0.934800E+00	0.223300E+00	0.450800E+00	0.176900E+00
17.800	-0.129500E+00	0.863500E+00	0.217600E+00	0.435400E+00	0.261700E+00
18.000	-0.117000E+00	0.796500E+00	0.212300E+00	0.419900E+00	0.779500E+00
18.200	-0.105900E+00	0.733800E+00	0.207200E+00	0.404600E+00	0.715000E+00
18.400	-0.960000E-01	0.675000E+00	0.202400E+00	0.389400E+00	0.659000E+00
18.600	-0.873000E-01	0.620000E+00	0.197900E+00	0.374500E+00	0.608400E+00
18.800	-0.794000E-01	0.568500E+00	0.193600E+00	0.359800E+00	0.561900E+00
19.000	-0.724000E-01	0.520300E+00	0.189500E+00	0.345400E+00	0.518800E+00
19.200	-0.661000E-01	0.475300E+00	0.185600E+00	0.331400E+00	0.479000E+00
19.600	-0.553000E-01	0.393700E+00	0.177900E+00	0.304400E+00	0.408200E+00
19.800	-0.506000E-01	0.356900E+00	0.174000E+00	0.291500E+00	0.376700E+00

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3 20.000 -0.464000E-01 0.322600E+00 0.170000E+00 0.278900E+00 0.347700E+00
4 20.200 -0.425000E-01 0.290600E+00 0.165600E+00 0.266700E+00 0.320900E+00
5 20.400 -0.390000E-01 0.260900E+00 0.160900E+00 0.254900E+00 0.296100E+00
6 20.600 -0.358000E-01 0.233400E+00 0.155800E+00 0.243400E+00 0.273300E+00
7 20.800 -0.329000E-01 0.208100E+00 0.150100E+00 0.232300E+00 0.252300E+00
8 21.000 -0.301000E-01 0.185100E+00 0.143900E+00 0.221500E+00 0.232800E+00
9 21.200 -0.276000E-01 0.164100E+00 0.137200E+00 0.211000E+00 0.214900E+00
10 25.000 -0.300000E-02 0.217000E-01 0.236000E-01 0.725000E-01 0.485000E-01
11 25.200 -0.230000E-02 0.201000E-01 0.209000E-01 0.681000E-01 0.447000E-01
12 25.400 -0.180000E-02 0.187000E-01 0.184000E-01 0.639000E-01 0.411000E-01
13 26.200 0.200000E-03 0.142000E-01 0.105000E-01 0.494000E-01 0.282000E-01
14 26.600 0.100000E-02 0.127000E-01 0.770000E-02 0.436000E-01 0.235000E-01
15 26.800 0.140000E-02 0.120000E-01 0.650000E-02 0.410000E-01 0.213000E-01
16 27.000 0.170000E-02 0.114000E-01 0.540000E-02 0.385000E-01 0.193000E-01
17 27.400 0.240000E-02 0.103000E-01 0.350000E-02 0.341000E-01 0.157000E-01
18 29.600 0.480000E-02 0.650000E-02 0.210000E-02 0.188000E-01 0.230000E-02
19 29.800 0.490000E-02 0.630000E-02 0.230000E-02 0.180000E-01 0.150000E-02
20 30.600 0.540000E-02 0.550000E-02 0.320000E-02 0.150000E-01 0.140000E-02
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The following tables display the transition dipole moments between the four lowest Σ^+ states with the lowest seven Π states of **NaCs**, for singlet (Tables 1 to 4) and triplet (Tables 5 to 8) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr =0.0529177 nm, and 1 a.u. =2.54158059 Debye. All states are identified with their number with increasing energy.

Table 1: (1) Σ^+ -(1-7) Π transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.800	0.478900E+00	-0.324680E+01	0.328000E-01	-0.299000E+00	-0.474000E-01	0.342300E+00	0.376700E+00
4.000	0.662800E+00	-0.319240E+01	0.153700E+00	-0.265300E+00	-0.221300E+00	0.267000E+00	0.307100E+00
4.200	0.887200E+00	-0.310670E+01	0.331800E+00	-0.222700E+00	-0.340000E+00	0.892000E-01	0.258800E+00
4.600	0.191990E+01	-0.251690E+01	0.597900E+00	-0.992000E-01	-0.360800E+00	0.580000E-01	0.189000E+00
4.800	0.288920E+01	-0.122760E+01	0.678000E+00	0.140000E-01	-0.357700E+00	-0.113800E+00	0.185900E+00
5.000	0.310960E+01	-0.252400E+00	0.726300E+00	0.878000E-01	-0.345500E+00	-0.108100E+00	0.174200E+00
5.200	0.310330E+01	-0.165900E+00	0.746300E+00	0.202400E+00	-0.321200E+00	-0.886000E-01	0.141600E+00
5.400	0.307630E+01	-0.399300E+00	0.742100E+00	0.320800E+00	-0.281600E+00	-0.654000E-01	0.108000E+00
5.600	0.305100E+01	-0.560300E+00	0.720300E+00	0.431400E+00	-0.225100E+00	-0.411000E-01	0.716000E-01
5.800	0.302970E+01	-0.685800E+00	0.689300E+00	0.524100E+00	-0.154300E+00	-0.175000E-01	0.325000E-01
6.000	0.301200E+01	-0.791000E+00	0.656500E+00	0.594100E+00	-0.769000E-01	0.340000E-02	-0.800000E-02
6.200	0.299690E+01	-0.883100E+00	0.627400E+00	0.642800E+00	-0.230000E-02	0.206000E-01	-0.486000E-01
6.400	0.298370E+01	-0.966500E+00	0.605300E+00	0.675300E+00	0.627000E-01	0.338000E-01	-0.872000E-01
6.600	0.297160E+01	-0.104380E+01	0.591800E+00	0.697600E+00	0.116000E+00	0.431000E-01	-0.122300E+00
6.800	0.295990E+01	-0.111690E+01	0.587800E+00	0.713900E+00	0.158900E+00	0.493000E-01	-0.152500E+00
7.000	0.294810E+01	-0.118690E+01	0.593500E+00	0.726800E+00	0.193300E+00	0.532000E-01	-0.177500E+00
7.200	0.293560E+01	-0.125440E+01	0.609300E+00	0.737700E+00	0.221400E+00	0.554000E-01	-0.197400E+00
7.400	0.292230E+01	-0.131930E+01	0.635100E+00	0.747500E+00	0.244800E+00	0.567000E-01	-0.212300E+00
7.600	0.290780E+01	-0.138110E+01	0.671400E+00	0.756500E+00	0.264600E+00	0.573000E-01	-0.222700E+00
7.800	0.289230E+01	-0.143870E+01	0.718900E+00	0.764800E+00	0.281400E+00	0.576000E-01	-0.228800E+00
8.200	0.285880E+01	-0.153410E+01	0.850900E+00	0.779800E+00	0.307300E+00	0.576000E-01	-0.229800E+00
8.400	0.284150E+01	-0.156660E+01	0.938200E+00	0.786600E+00	0.316200E+00	0.574000E-01	-0.225200E+00
8.600	0.282440E+01	-0.158400E+01	0.104190E+01	0.792900E+00	0.322300E+00	0.571000E-01	-0.217800E+00
8.800	0.280820E+01	-0.158190E+01	0.116320E+01	0.798700E+00	0.325100E+00	0.566000E-01	-0.207700E+00
9.000	0.279320E+01	-0.155470E+01	0.130230E+01	0.803900E+00	0.324400E+00	0.559000E-01	-0.195300E+00
9.200	0.277980E+01	-0.149750E+01	0.145690E+01	0.808400E+00	0.319800E+00	0.548000E-01	-0.181200E+00
9.400	0.276850E+01	-0.140740E+01	0.162120E+01	0.811900E+00	0.311100E+00	0.534000E-01	-0.165700E+00
9.600	0.275930E+01	-0.128620E+01	0.178580E+01	0.814100E+00	0.298500E+00	0.517000E-01	-0.149300E+00
9.800	0.275240E+01	-0.114180E+01	0.193980E+01	0.814500E+00	0.282100E+00	0.496000E-01	-0.132400E+00
10.000	0.274780E+01	-0.986100E+00	0.207500E+01	0.812700E+00	0.262600E+00	0.473000E-01	-0.115600E+00
10.200	0.274520E+01	-0.831200E+00	0.218780E+01	0.808300E+00	0.240700E+00	0.449000E-01	-0.992000E-01
10.400	0.274460E+01	-0.685600E+00	0.227910E+01	0.800700E+00	0.217300E+00	0.424000E-01	-0.835000E-01
10.600	0.274580E+01	-0.553600E+00	0.235210E+01	0.789900E+00	0.193600E+00	0.401000E-01	-0.688000E-01
10.800	0.274830E+01	-0.436500E+00	0.241060E+01	0.775700E+00	0.170600E+00	0.379000E-01	-0.552000E-01
11.000	0.275210E+01	-0.333900E+00	0.245770E+01	0.758400E+00	0.148900E+00	0.360000E-01	-0.427000E-01
11.200	0.275690E+01	-0.244300E+00	0.249610E+01	0.738100E+00	0.129100E+00	0.344000E-01	-0.313000E-01
11.400	0.276240E+01	-0.166500E+00	0.252770E+01	0.715400E+00	0.111700E+00	0.330000E-01	-0.207000E-01
11.600	0.276850E+01	-0.989000E-01	0.255380E+01	0.690700E+00	0.965000E-01	0.320000E-01	-0.109000E-01
11.800	0.277510E+01	-0.405000E-01	0.257560E+01	0.664700E+00	0.837000E-01	0.312000E-01	-0.160000E-02
12.000	0.278190E+01	0.980000E-02	0.259370E+01	0.637800E+00	0.729000E-01	0.305000E-01	0.730000E-02
12.200	0.278910E+01	0.531000E-01	0.260870E+01	0.610700E+00	0.640000E-01	0.299000E-01	0.160000E-01
12.400	0.279640E+01	0.899000E-01	0.262120E+01	0.583600E+00	0.567000E-01	0.293000E-01	0.245000E-01
12.600	0.280380E+01	0.121100E+00	0.263140E+01	0.557200E+00	0.506000E-01	0.287000E-01	0.325000E-01
12.800	0.281130E+01	0.147200E+00	0.263970E+01	0.531700E+00	0.454000E-01	0.280000E-01	0.394000E-01
13.000	0.281890E+01	0.168900E+00	0.264640E+01	0.507300E+00	0.410000E-01	0.271000E-01	0.447000E-01
13.200	0.282650E+01	0.186500E+00	0.265150E+01	0.484300E+00	0.372000E-01	0.260000E-01	0.481000E-01
13.400	0.283410E+01	0.200500E+00	0.265540E+01	0.462800E+00	0.337000E-01	0.247000E-01	0.499000E-01
13.600	0.284170E+01	0.211500E+00	0.265830E+01	0.442800E+00	0.304000E-01	0.232000E-01	0.503000E-01
13.800	0.284930E+01	0.219600E+00	0.266020E+01	0.424400E+00	0.273000E-01	0.214000E-01	0.499000E-01
14.000	0.285680E+01	0.225300E+00	0.266120E+01	0.407600E+00	0.242000E-01	0.194000E-01	0.488000E-01
14.200	0.286430E+01	0.228900E+00	0.266160E+01	0.392200E+00	0.213000E-01	0.173000E-01	0.472000E-01
14.400	0.287170E+01	0.230600E+00	0.266140E+01	0.378300E+00	0.184000E-01	0.150000E-01	0.454000E-01
14.600	0.287900E+01	0.230800E+00	0.266070E+01	0.365700E+00	0.156000E-01	0.126000E-01	0.432000E-01
15.000	0.289330E+01	0.227200E+00	0.265810E+01	0.344200E+00	0.103000E-01	0.790000E-02	0.386000E-01
15.200	0.290020E+01	0.223800E+00	0.265630E+01	0.335000E+00	0.790000E-02	0.560000E-02	0.363000E-01
15.800	0.292030E+01	0.209400E+00	0.264950E+01	0.312600E+00	0.150000E-02	0.600000E-03	0.292000E-01
16.400	0.293900E+01	0.191100E+00	0.264150E+01	0.296400E+00	0.320000E-02	0.540000E-02	0.226000E-01
16.600	0.294490E+01	0.184500E+00	0.263860E+01	0.292000E+00	0.450000E-02	0.670000E-02	0.260000E-01
16.800	0.295060E+01	0.177900E+00	0.263570E+01	0.288100E+00	0.550000E-02	0.780000E-02	0.187000E-01
17.000	0.295620E+01	0.171200E+00	0.263280E+01	0.284600E+00	0.640000E-02	0.880000E-02	0.170000E-01
17.200	0.296160E+01	0.164500E+00	0.262990E+01	0.281300E+00	0.720000E-02	0.960000E-02	0.154000E-01
17.400	0.296690E+01	0.157800E+00	0.262700E+01	0.278400E+00	0.780000E-02	0.103000E-01	0.139000E-01
17.600	0.297200E+01	0.151200E+00	0.262410E+01	0.275800E+00	0.830000E-02	0.109000E-01	0.126000E-01
17.800	0.297690E+01	0.144700E+00	0.262120E+01	0.273400E+00	0.870000E-02	0.114000E-01	0.114000E-01
18.000	0.298170E+01	0.138400E+00	0.261830E+01	0.271300E+00	0.890000E-02	0.118000E-01	0.103000E-01
18.200	0.298630E+01	0.132200E+00	0.261550E+01	0.269300E+00	0.910000E-02	0.121000E-01	0.940000E-02
18.400	0.299080E+01	0.126100E+00	0.261270E+01	0.267500E+00	0.920000E-02	0.124000E-01	0.850000E-02

18.600	0.299520E+01	0.120300E+00	0.260990E+01	0.265900E+00	0.920000E-02	0.126000E-01	0.780000E-02
18.800	0.299940E+01	0.114600E+00	0.260720E+01	0.264400E+00	0.910000E-02	0.127000E-01	0.710000E-02
19.000	0.300350E+01	0.109100E+00	0.260460E+01	0.263100E+00	0.890000E-02	0.128000E-01	0.660000E-02
19.200	0.300740E+01	0.103700E+00	0.260200E+01	0.261900E+00	0.870000E-02	0.128000E-01	0.610000E-02
19.600	0.301490E+01	0.937000E-01	0.259690E+01	0.259700E+00	0.820000E-02	0.128000E-01	0.530000E-02
19.800	0.301850E+01	0.889000E-01	0.259450E+01	0.258700E+00	0.790000E-02	0.127000E-01	0.500000E-02
20.000	0.302190E+01	0.844000E-01	0.259210E+01	0.257900E+00	0.750000E-02	0.126000E-01	0.480000E-02
20.200	0.302530E+01	0.800000E-01	0.258980E+01	0.257100E+00	0.710000E-02	0.124000E-01	0.460000E-02
20.400	0.302850E+01	0.758000E-01	0.258760E+01	0.256300E+00	0.670000E-02	0.123000E-01	0.440000E-02
20.600	0.303160E+01	0.718000E-01	0.258540E+01	0.255700E+00	0.630000E-02	0.121000E-01	0.430000E-02
20.800	0.303470E+01	0.680000E-01	0.258320E+01	0.255000E+00	0.580000E-02	0.119000E-01	0.420000E-02
21.000	0.303760E+01	0.643000E-01	0.258110E+01	0.254500E+00	0.540000E-02	0.117000E-01	0.410000E-02
21.200	0.304040E+01	0.608000E-01	0.257910E+01	0.253900E+00	0.490000E-02	0.115000E-01	0.400000E-02
25.000	0.307970E+01	0.178000E-01	0.254990E+01	0.248500E+00	0.250000E-02	0.640000E-02	0.450000E-02
25.200	0.308120E+01	0.164000E-01	0.254860E+01	0.248400E+00	0.270000E-02	0.620000E-02	0.450000E-02
25.400	0.308270E+01	0.151000E-01	0.254680E+01	0.248300E+00	0.300000E-02	0.590000E-02	0.450000E-02
25.600	0.308410E+01	0.139000E-01	0.248100E+00	0.320000E-02	0.570000E-02	0.440000E-02	0.315000E-01
26.200	0.308800E+01	0.105000E-01	0.254350E+01	0.247700E+00	0.390000E-02	0.510000E-02	0.420000E-02
26.600	0.309040E+01	0.860000E-02	0.254170E+01	0.247500E+00	0.420000E-02	0.470000E-02	0.390000E-02
26.800	0.309160E+01	0.770000E-02	0.254070E+01	0.247400E+00	0.440000E-02	0.450000E-02	0.380000E-02
29.800	0.310540E+01	0.190000E-02	0.252960E+01	0.245900E+00	0.590000E-02	0.290000E-02	0.700000E-03
30.600	0.310830E+01	0.350000E-02	0.252740E+01	0.245600E+00	0.620000E-02	0.270000E-02	0.200000E-03

Table 2: $(2)^1\Sigma^+-(1-7)^1\Pi$ transitions

R	2-1	2-2	2-3	2-4	2-5	2-6	2-7
3.800	0.811800E+00	0.693100E+00	-0.119850E+01	0.926400E+00	0.175520E+01	0.805000E+00	0.379100E+00
4.000	0.872900E+00	0.818900E+00	-0.115440E+01	0.112520E+01	0.189200E+01	0.206000E-01	0.299200E+00
4.200	0.918700E+00	0.964100E+00	-0.112150E+01	0.126920E+01	0.164680E+01	-0.854400E+00	0.252500E+00
4.600	0.665100E+00	0.149150E+01	-0.101910E+01	0.150040E+01	0.150040E+01	-0.802600E+00	0.340500E+00
4.800	0.147600E+00	0.177930E+01	-0.919700E+00	0.157770E+01	0.148500E+01	-0.572900E+00	-0.627000E-01
5.000	0.723000E+00	0.178420E+01	-0.783700E+00	0.161450E+01	0.147990E+01	-0.558400E+00	-0.538000E+00
5.200	0.975900E+00	0.180120E+01	-0.623800E+00	0.160080E+01	0.148620E+01	-0.614500E+00	-0.691800E+00
5.400	0.111960E+01	0.184270E+01	-0.462000E+00	0.153010E+01	0.150490E+01	-0.676800E+00	-0.792100E+00
5.600	0.121550E+01	0.189290E+01	-0.321500E+00	0.140480E+01	0.153050E+01	-0.729200E+00	-0.882900E+00
5.800	0.128550E+01	0.194330E+01	-0.216900E+00	0.124090E+01	0.155060E+01	-0.766900E+00	-0.969900E+00
6.000	0.133970E+01	0.198910E+01	-0.151700E+00	0.106520E+01	0.155230E+01	-0.791200E+00	-0.105380E+01
6.200	0.138370E+01	0.202770E+01	-0.121200E+00	0.903700E+00	0.153100E+01	-0.802700E+00	-0.112740E+01
6.400	0.142070E+01	0.205750E+01	-0.117800E+00	0.771100E+00	0.149230E+01	-0.805400E+00	-0.118870E+01
6.600	0.145270E+01	0.207830E+01	-0.133900E+00	0.669700E+00	0.144630E+01	-0.803300E+00	-0.123610E+01
6.800	0.148080E+01	0.209030E+01	-0.163100E+00	0.595100E+00	0.140140E+01	-0.800300E+00	-0.127380E+01
7.000	0.150560E+01	0.209430E+01	-0.200400E+00	0.541500E+00	0.136300E+01	-0.797900E+00	-0.130280E+01
7.200	0.152710E+01	0.209150E+01	-0.241800E+00	0.503600E+00	0.133360E+01	-0.797000E+00	-0.132610E+01
7.400	0.154520E+01	0.208330E+01	-0.284400E+00	0.477600E+00	0.131390E+01	-0.798000E+00	-0.134540E+01
7.600	0.155940E+01	0.207110E+01	-0.325300E+00	0.461100E+00	0.130370E+01	-0.800800E+00	-0.136230E+01
7.800	0.156930E+01	0.205680E+01	-0.362200E+00	0.452300E+00	0.130250E+01	-0.805100E+00	-0.137710E+01
8.200	0.157370E+01	0.202890E+01	-0.413600E+00	0.455300E+00	0.132330E+01	-0.817900E+00	-0.140110E+01
8.400	0.156720E+01	0.201880E+01	-0.422500E+00	0.466700E+00	0.134340E+01	-0.825800E+00	-0.140970E+01
8.600	0.155430E+01	0.201350E+01	-0.416000E+00	0.484900E+00	0.136840E+01	-0.834400E+00	-0.141490E+01
8.800	0.153490E+01	0.201380E+01	-0.390300E+00	0.510300E+00	0.139740E+01	-0.843900E+00	-0.141700E+01
9.000	0.150890E+01	0.201960E+01	-0.342400E+00	0.543300E+00	0.142890E+01	-0.854100E+00	-0.141560E+01
9.200	0.147670E+01	0.202950E+01	-0.270500E+00	0.584100E+00	0.146170E+01	-0.864600E+00	-0.141040E+01
9.400	0.143840E+01	0.204060E+01	-0.175800E+00	0.632700E+00	0.149450E+01	-0.875600E+00	-0.140270E+01
9.600	0.139470E+01	0.204900E+01	-0.642000E-01	0.688800E+00	0.152580E+01	-0.886900E+00	-0.139140E+01
9.800	0.134620E+01	0.205200E+01	0.544000E-01	0.751600E+00	0.155450E+01	-0.898300E+00	-0.137800E+01
10.000	0.129370E+01	0.204880E+01	0.169100E+00	0.819900E+00	0.157980E+01	-0.910000E+00	-0.136300E+01
10.200	0.123800E+01	0.204070E+01	0.271400E+00	0.891700E+00	0.160110E+01	-0.921800E+00	-0.134760E+01
10.400	0.117980E+01	0.203010E+01	0.357100E+00	0.965100E+00	0.161870E+01	-0.933800E+00	-0.133240E+01
10.600	0.112010E+01	0.201870E+01	0.425600E+00	0.103760E+01	0.163320E+01	-0.946300E+00	-0.131820E+01
10.800	0.105960E+01	0.200780E+01	0.478200E+00	0.110720E+01	0.164540E+01	-0.959200E+00	-0.130550E+01
11.000	0.999100E+00	0.199800E+01	0.517200E+00	0.117200E+01	0.165650E+01	-0.972800E+00	-0.129460E+01
11.200	0.939100E+00	0.198960E+01	0.544500E+00	0.123020E+01	0.166780E+01	-0.987300E+00	-0.128570E+01
11.400	0.880200E+00	0.198280E+01	0.562200E+00	0.128090E+01	0.168010E+01	-0.100280E+01	-0.127830E+01
11.600	0.823000E+00	0.197750E+01	0.571900E+00	0.132320E+01	0.169440E+01	-0.101950E+01	-0.127170E+01
11.800	0.767800E+00	0.197370E+01	0.575000E+00	0.135670E+01	0.171090E+01	-0.103750E+01	-0.126430E+01
12.000	0.715000E+00	0.197150E+01	0.572600E+00	0.138120E+01	0.172990E+01	-0.105680E+01	-0.125340E+01
12.200	0.664700E+00	0.197090E+01	0.565900E+00	0.139650E+01	0.175140E+01	-0.107720E+01	-0.123460E+01
12.400	0.617000E+00	0.197210E+01	0.555600E+00	0.140310E+01	0.177490E+01	-0.109880E+01	-0.120220E+01
12.600	0.572100E+00	0.197500E+01	0.542700E+00	0.140110E+01	0.179990E+01	-0.112100E+01	-0.114990E+01
12.800	0.530000E+00	0.197980E+01	0.527600E+00	0.139130E+01	0.182570E+01	-0.114360E+01	-0.107430E+01
13.000	0.490600E+00	0.198660E+01	0.511200E+00	0.137410E+01	0.185160E+01	-0.116590E+01	-0.978500E+00
13.200	0.453800E+00	0.199530E+01	0.493700E+00	0.135060E+01	0.187670E+01	-0.118720E+01	-0.871700E+00
13.400	0.419700E+00	0.200610E+01	0.475600E+00	0.132160E+01	0.190040E+01	-0.120680E+01	-0.763100E+00
13.600	0.388000E+00	0.201900E+01	0.457300E+00	0.128800E+01	0.192200E+01	-0.122370E+01	-0.658600E+00
13.800	0.358600E+00	0.203390E+01	0.439000E+00	0.125090E+01	0.194100E+01	-0.123700E+01	-0.560900E+00
14.000	0.331500E+00	0.205100E+01	0.421000E+00	0.121100E+01	0.195720E+01	-0.124580E+01	-0.470300E+00
14.200	0.306400E+00	0.207020E+01	0.403300E+00	0.116910E+01	0.197030E+01	-0.124930E+01	-0.386500E+00
14.400	0.283200E+00	0.209140E+01	0.386200E+00	0.112590E+01	0.198040E+01	-0.124670E+01	-0.309200E+00
14.600	0.261800E+00	0.211460E+01	0.369600E+00	0.108190E+01	0.198740E+01	-0.123740E+01	-0.239000E+00
15.000	0.223800E+00	0.216620E+01	0.338500E+00	0.992900E+00	0.199320E+01	-0.119800E+01	-0.118000E+00
15.200	0.206900E+00	0.219440E+01	0.323900E+00	0.948300E+00	0.199220E+01	-0.116800E+01	-0.678000E-01
15.800	0.163700E+00	0.228510E+01	0.284300E+00	0.816000E+00	0.197630E+01	-0.104110E+01	-0.347000E-01
16.400	0.129400E+00	0.237870E+01	0.250300E+00	0.687700E+00	0.194450E+01	-0.873900E+00	-0.638000E-01
16.600	0.119600E+00	0.240880E+01	0.240000E+00	0.646200E+00	0.193110E+01	-0.813300E+00	-0.586000E-01
16.800	0.110500E+00	0.243800E+01	0.230200E+00	0.605600E+00	0.191670E+01	-0.751700E+00	-0.466000E-01
17.000	0.102200E+00	0.246580E+01	0.220900E+00	0.566300E+00	0.190140E+01	-0.690200E+00	-0.297000E-01
17.200	0.945000E-01	0.249220E+01	0.212000E+00	0.528100E+00	0.188550E+01	-0.629100E+00	-0.800000E-02
17.400	0.875000E-01	0.251690E+01	0.203500E+00	0.491400E+00	0.186920E+01	-0.569400E+00	0.176000E-01
17.600	0.810000E-01	0.253980E+01	0.195400E+00	0.456100E+00	0.185280E+01	-0.511500E+00	0.459000E-01
17.800	0.750000E-01	0.256100E+01	0.187600E+00	0.422600E+00	0.183640E+01	-0.456000E+00	0.765000E-01
18.000	0.696000E-01	0.258040E+01	0.180200E+00	0.390700E+00	0.182020E+01	-0.403200E+00	0.108600E+00
18.200	0.647000E-01	0.259810E+01	0.173100E+00	0.360600E+00	0.180450E+01	-0.353300E+00	0.141600E+00
18.400	0.602000E-01	0.261410E+01	0.166300E+00	0.332200E+00	0.178930E+01	-0.306400E+00	0.174400E+00
18.600	0.561000E-01	0.262860E+01	0.159900E+00	0.305700E+00	0.177470E+01	-0.262600E+00	0.207600E+00
18.800	0.524000E-01	0.264170E+01	0.153700E+00	0.280800E+00	0.176100E+01	-0.222000E+00	0.240400E+00
19.000	0.490000E-01	0.265350E+01	0.147700E+00	0.257600E+00	0.174810E+01	-0.184500E+00	0.272500E+00
19.200	0.459000E-01	0.266420E+01	0.142100E+00	0.236000E+00	0.173610E+01	-0.150000E+00	0.303300E+00
19.600	0.406000E-01	0.268240E+01	0.131500E+00	0.197300E+00	0.171480E+01	-0.897000E-01	0.362900E+00
19.800	0.382000E-01	0.269030E+01	0.126600E+00	0.180000E+00	0.170550E+01	-0.635000E-01	0.391000E+00
20.000	0.361000E-01	0.269740E+01	0.121900E+00	0.163900E+00	0.169710E+01	-0.397000E-01	0.418100E+00
20.200	0.341000E-01	0.270380E+01	0.117400E+00	0.149000E+00	0.168950E+01	-0.183000E-01	0.444000E+00
20.400	0.323000E-01	0.270970E+01	0.113000E+00	0.135200E+00	0.168270E+01	-0.110000E-02	0.468800E+00

20.600 0.306000E-01 0.271510E+01 0.108900E+00 0.122300E+00 0.167660E+01 0.185000E-01 0.492700E+00
20.800 0.290000E-01 0.272000E+01 0.105000E+00 0.110400E+00 0.167130E+01 0.341000E-01 0.515600E+00
21.000 0.275000E-01 0.272450E+01 0.101200E+00 0.993000E-01 0.166660E+01 0.480000E-01 0.537500E+00
21.200 0.261000E-01 0.272870E+01 0.976000E-01 0.889000E-01 0.166250E+01 0.604000E-01 0.558500E+00
25.000 0.910000E-02 0.277130E+01 0.516000E-01 0.155000E-01 0.164680E+01 0.137400E+00 0.849000E+00
25.200 0.860000E-02 0.277250E+01 0.501000E-01 0.179000E-01 0.164740E+01 0.137400E+00 0.860300E+00
25.400 0.800000E-02 0.277360E+01 0.485000E-01 0.200000E-01 0.164800E+01 0.137200E+00 0.871400E+00
26.200 0.630000E-02 0.277760E+01 0.431000E-01 0.267000E-01 0.165040E+01 0.135200E+00 0.913000E+00
26.600 0.550000E-02 0.277940E+01 0.406000E-01 0.290000E-01 0.165170E+01 0.133300E+00 0.932000E+00
26.800 0.520000E-02 0.278020E+01 0.394000E-01 0.300000E-01 0.165230E+01 0.132200E+00 0.941100E+00
29.800 0.200000E-02 0.278980E+01 0.261000E-01 0.326000E-01 0.166020E+01 0.109100E+00 0.105150E+01
30.600 0.150000E-02 0.279180E+01 0.235000E-01 0.312000E-01 0.166140E+01 0.101800E+00 0.107410E+01

For Peer Review Only

Table 3: (3)¹Σ⁺-(1-7)¹Π transitions

R	3-1	3-2	3-3	3-4	3-5	3-6	3-7
3.800	0.363000E-01	-0.860300E+00	0.560500E+00	-0.219100E+00	0.770000E-02	0.943400E+00	0.116270E+01
4.000	0.558000E-01	-0.965100E+00	0.443300E+00	-0.139600E+00	0.292600E+00	0.947600E+00	0.157100E+01
4.200	0.110200E+00	-0.103780E+01	0.373500E+00	-0.954000E-01	0.618700E+00	0.735900E+00	0.175680E+01
4.600	0.539300E+00	-0.937700E+00	0.389200E+00	0.175200E+00	0.429200E+00	0.111500E+00	0.202160E+01
4.800	0.956800E+00	-0.477000E+00	0.448700E+00	0.292300E+00	0.282200E+00	0.111420E+01	0.131040E+01
5.000	0.106080E+01	0.620000E-01	0.512400E+00	0.431000E+00	0.145600E+00	0.143530E+01	0.301100E+00
5.200	0.105770E+01	0.166600E+00	0.567100E+00	0.569200E+00	0.235000E-01	0.155800E+01	0.841000E-01
5.400	0.104170E+01	0.321300E+00	0.612600E+00	0.691200E+00	-0.919000E-01	0.162850E+01	0.210000E-02
5.600	0.102330E+01	0.438400E+00	0.656800E+00	0.785800E+00	-0.208900E+00	0.167850E+01	-0.482000E-01
5.800	0.100170E+01	0.530300E+00	0.707700E+00	0.845500E+00	-0.327900E+00	0.171670E+01	-0.758000E-01
6.000	0.975600E+00	0.602900E+00	0.768200E+00	0.869900E+00	-0.439500E+00	0.174730E+01	-0.951000E-01
6.200	0.945400E+00	0.659200E+00	0.836700E+00	0.865800E+00	-0.529900E+00	0.177310E+01	-0.107700E+00
6.400	0.912800E+00	0.702100E+00	0.907800E+00	0.844000E+00	-0.590700E+00	0.179690E+01	-0.122100E+00
6.600	0.880600E+00	0.734100E+00	0.975800E+00	0.813800E+00	-0.621000E+00	0.182000E+01	-0.133400E+00
6.800	0.851500E+00	0.758000E+00	0.103540E+01	0.781700E+00	-0.625200E+00	0.184240E+01	-0.145500E+00
7.000	0.827600E+00	0.776500E+00	0.108340E+01	0.752000E+00	-0.609100E+00	0.186500E+01	-0.156900E+00
7.200	0.810200E+00	0.792000E+00	0.111790E+01	0.727100E+00	-0.578800E+00	0.188740E+01	-0.168700E+00
7.400	0.799600E+00	0.806800E+00	0.113840E+01	0.708400E+00	-0.539200E+00	0.190940E+01	-0.180900E+00
7.600	0.795900E+00	0.822600E+00	0.114510E+01	0.696400E+00	-0.494400E+00	0.193040E+01	-0.194100E+00
7.800	0.798500E+00	0.841000E+00	0.113860E+01	0.691000E+00	-0.447200E+00	0.195020E+01	-0.208600E+00
8.200	0.819200E+00	0.890000E+00	0.108850E+01	0.697700E+00	-0.353700E+00	0.198430E+01	-0.242800E+00
8.400	0.835700E+00	0.922100E+00	0.104560E+01	0.708100E+00	-0.309800E+00	0.199830E+01	-0.263400E+00
8.600	0.855100E+00	0.960000E+00	0.990500E+00	0.721600E+00	-0.268700E+00	0.201000E+01	-0.285600E+00
8.800	0.876700E+00	0.100340E+01	0.922600E+00	0.736800E+00	-0.230600E+00	0.201940E+01	-0.309800E+00
9.000	0.899700E+00	0.105140E+01	0.841200E+00	0.752300E+00	-0.195800E+00	0.202670E+01	-0.334700E+00
9.200	0.923600E+00	0.110200E+01	0.746300E+00	0.766400E+00	-0.164300E+00	0.203160E+01	-0.359900E+00
9.400	0.948000E+00	0.115170E+01	0.639300E+00	0.777400E+00	-0.136200E+00	0.203460E+01	-0.384800E+00
9.600	0.972300E+00	0.119670E+01	0.524500E+00	0.783700E+00	-0.111700E+00	0.203580E+01	-0.406300E+00
9.800	0.996100E+00	0.123380E+01	0.408900E+00	0.783300E+00	-0.917000E-01	0.203550E+01	-0.424100E+00
10.000	0.101900E+01	0.126240E+01	0.300200E+00	0.774200E+00	-0.769000E-01	0.203380E+01	-0.436100E+00
10.200	0.104040E+01	0.128460E+01	0.204600E+00	0.754300E+00	-0.687000E-01	0.203060E+01	-0.440600E+00
10.400	0.105920E+01	0.130340E+01	0.125000E+00	0.721700E+00	-0.682000E-01	0.202550E+01	-0.436000E+00
10.600	0.107430E+01	0.132170E+01	0.620000E-01	0.674500E+00	-0.766000E-01	0.201740E+01	-0.420900E+00
10.800	0.108420E+01	0.134090E+01	0.143000E-01	0.612000E+00	-0.940000E-01	0.200520E+01	-0.394200E+00
11.000	0.108740E+01	0.136110E+01	0.203000E-01	0.534600E+00	-0.119500E+00	0.198790E+01	-0.356400E+00
11.200	0.108310E+01	0.138090E+01	0.441000E-01	0.445100E+00	-0.150700E+00	0.196460E+01	-0.308400E+00
11.400	0.107120E+01	0.139880E+01	0.599000E-01	0.347700E+00	-0.184400E+00	0.193630E+01	-0.252200E+00
11.600	0.105300E+01	0.141350E+01	0.701000E-01	0.247600E+00	-0.217000E+00	0.190500E+01	-0.189800E+00
11.800	0.103040E+01	0.142470E+01	0.766000E-01	0.149500E+00	-0.245800E+00	0.187350E+01	-0.122000E+00
12.000	0.100540E+01	0.143270E+01	0.809000E-01	0.567000E-01	-0.268900E+00	0.184460E+01	-0.485000E-01
12.200	0.979700E+00	0.143800E+01	0.840000E-01	-0.295000E-01	-0.285600E+00	0.182020E+01	0.327000E-01
12.400	0.954300E+00	0.144130E+01	0.865000E-01	-0.108400E+00	-0.295700E+00	0.180160E+01	0.123000E+00
12.600	0.929800E+00	0.144280E+01	0.886000E-01	-0.180700E+00	-0.299400E+00	0.178960E+01	0.221900E+00
12.800	0.906600E+00	0.144290E+01	0.905000E-01	-0.246700E+00	-0.297200E+00	0.178420E+01	0.323500E+00
13.000	0.884800E+00	0.144150E+01	0.921000E-01	-0.307200E+00	-0.289500E+00	0.178530E+01	0.418300E+00
13.200	0.864400E+00	0.143860E+01	0.935000E-01	-0.362900E+00	-0.276700E+00	0.179290E+01	0.497200E+00
13.400	0.845400E+00	0.143400E+01	0.945000E-01	-0.414100E+00	-0.259400E+00	0.180660E+01	0.555500E+00
13.600	0.827800E+00	0.142750E+01	0.952000E-01	-0.461300E+00	-0.237900E+00	0.182610E+01	0.593100E+00
13.800	0.811700E+00	0.141880E+01	0.955000E-01	-0.504900E+00	-0.212600E+00	0.185080E+01	0.612700E+00
14.000	0.796900E+00	0.140780E+01	0.954000E-01	-0.544900E+00	-0.183900E+00	0.188030E+01	0.616500E+00
14.200	0.783700E+00	0.139420E+01	0.949000E-01	-0.581600E+00	-0.152200E+00	0.191390E+01	0.607000E+00
14.400	0.772000E+00	0.137770E+01	0.940000E-01	-0.615200E+00	-0.117900E+00	0.195070E+01	0.586000E+00
14.600	0.762000E+00	0.135800E+01	0.927000E-01	-0.645600E+00	0.812000E-01	0.199000E+01	0.555600E+00
15.000	0.747300E+00	0.130880E+01	0.889000E-01	-0.697500E+00	0.210000E-02	0.207240E+01	0.471000E+00
15.200	0.742900E+00	0.127880E+01	0.866000E-01	-0.718900E+00	0.396000E-01	0.211390E+01	0.420100E+00
15.800	0.743000E+00	0.116750E+01	0.782000E-01	-0.764100E+00	0.169500E+00	0.223020E+01	0.250400E+00
16.400	0.766200E+00	0.102690E+01	0.690000E-01	-0.777300E+00	0.297200E+00	0.232350E+01	0.852000E-01
16.600	0.779600E+00	0.975000E+00	0.661000E-01	-0.773500E+00	0.336800E+00	0.234790E+01	0.367000E-01
16.800	0.796100E+00	0.921400E+00	0.634000E-01	-0.765100E+00	0.374000E+00	0.236820E+01	-0.690000E-02
17.000	0.815800E+00	0.866600E+00	0.607000E-01	-0.752300E+00	0.408500E+00	0.238550E+01	-0.458000E-01
17.200	0.838600E+00	0.811100E+00	0.583000E-01	-0.734500E+00	0.439400E+00	0.239870E+01	-0.785000E-01
17.400	0.864700E+00	0.755400E+00	0.562000E-01	-0.711800E+00	0.466400E+00	0.240810E+01	-0.105400E+00
17.600	0.893900E+00	0.700200E+00	0.543000E-01	-0.684100E+00	0.489100E+00	0.241380E+01	-0.126300E+00
17.800	0.926000E+00	0.645800E+00	0.526000E-01	-0.651500E+00	0.507200E+00	0.241570E+01	-0.141400E+00
18.000	0.960800E+00	0.592800E+00	0.511000E-01	-0.614200E+00	0.520500E+00	0.241370E+01	-0.150700E+00
18.200	0.997900E+00	0.541600E+00	0.499000E-01	-0.572500E+00	0.528800E+00	0.240800E+01	-0.154700E+00
18.400	0.103680E+01	0.492400E+00	0.488000E-01	-0.526900E+00	0.532300E+00	0.239880E+01	-0.153400E+00
18.600	0.107700E+01	0.445600E+00	0.479000E-01	-0.478100E+00	0.531100E+00	0.238600E+01	-0.147900E+00
18.800	0.111780E+01	0.401400E+00	0.471000E-01	-0.426700E+00	0.525500E+00	0.237000E+01	-0.138500E+00
19.000	0.115850E+01	0.360100E+00	0.464000E-01	-0.373600E+00	0.516000E+00	0.235090E+01	-0.125900E+00
19.200	0.119850E+01	0.321700E+00	0.458000E-01	-0.319800E+00	0.503100E+00	0.232930E+01	-0.110700E+00
19.600	0.127380E+01	0.254100E+00	0.445000E-01	-0.213300E+00	0.469500E+00	0.228020E+01	-0.755000E-01
19.800	0.130830E+01	0.224700E+00	0.439000E-01	-0.162200E+00	0.450200E+00	0.225390E+01	-0.567000E-01
20.000	0.134030E+01	0.198300E+00	0.432000E-01	-0.113300E+00	0.429800E+00	0.222710E+01	-0.377000E-01
20.200	0.136960E+01	0.174500E+00	0.425000E-01	-0.672000E-01	0.409000E+00	0.220030E+01	-0.189000E-01
20.400	0.139630E+01	0.153400E+00	0.418000E-01	-0.241000E-01	0.388200E+00	0.217390E+01	0.700000E-03

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3 20.600 0.142030E+01 0.134500E+00 0.411000E-01 0.159000E-01 0.367700E+00 0.214830E+01 0.170000E-01
4 20.800 0.144180E+01 0.117800E+00 0.404000E-01 0.526000E-01 0.347800E+00 0.212380E+01 0.334000E-01
5 21.000 0.146100E+01 0.103000E+00 0.396000E-01 0.863000E-01 0.328600E+00 0.210050E+01 0.490000E-01
6 21.200 0.147800E+01 0.899000E-01 0.388000E-01 0.116900E+00 0.310400E+00 0.207860E+01 0.634000E-01
7 25.000 0.159660E+01 0.240000E-02 0.251000E-01 0.361600E+00 0.118700E+00 0.188390E+01 0.187000E+00
8 25.200 0.159820E+01 0.370000E-02 0.245000E-01 0.365700E+00 0.113900E+00 0.188080E+01 0.188800E+00
9 25.400 0.159970E+01 0.490000E-02 0.239000E-01 0.369500E+00 0.109300E+00 0.187800E+01 0.190200E+00
10 26.200 0.160450E+01 0.870000E-02 0.218000E-01 0.381800E+00 0.937000E-01 0.186960E+01 0.194000E+00
11 26.600 0.160630E+01 0.101000E-01 0.209000E-01 0.386600E+00 0.871000E-01 0.186680E+01 0.194200E+00
12 26.800 0.160710E+01 0.107000E-01 0.204000E-01 0.388700E+00 0.841000E-01 0.186570E+01 0.194000E+00
13 29.800 0.161430E+01 0.145000E-01 0.148000E-01 0.407100E+00 0.532000E-01 0.186170E+01 0.173700E+00
14 30.600 0.161540E+01 0.146000E-01 0.137000E-01 0.409600E+00 0.482000E-01 0.186250E+01 0.165200E+00
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For Peer Review Only

Table 4: $(4)^1\Sigma^+-(1-7)^1\Pi$ transitions

R	4-1	4-2	4-3	4-4	4-5	4-6	4-7
3.800	-0.130500E+00	-0.136050E+01	0.778200E+00	0.168800E+01	0.148000E+00	-0.113890E+01	0.295200E+00
4.000	-0.600000E-01	-0.191140E+01	0.440000E+00	0.480960E+01	0.302450E+01	-0.214350E+01	0.914600E+00
4.200	-0.274200E+00	-0.131380E+01	0.357200E+00	0.150940E+01	0.518000E+00	-0.643900E+00	0.209900E+00
4.600	-0.811600E+00	-0.134550E+01	0.140000E-01	0.217060E+01	0.890000E+00	-0.774200E+00	0.620000E-02
4.800	-0.148920E+01	-0.887100E+00	-0.242900E+00	0.253430E+01	0.113100E+01	-0.749100E+00	-0.768400E+00
5.000	-0.181540E+01	-0.445600E+00	-0.493500E+00	0.279200E+01	0.128060E+01	-0.674000E+00	-0.972500E+00
5.200	-0.195670E+01	-0.245200E+00	-0.746100E+00	0.294930E+01	0.130470E+01	-0.634100E+00	-0.945400E+00
5.400	-0.204670E+01	-0.123400E+00	-0.977500E+00	0.304180E+01	0.121110E+01	-0.611600E+00	-0.900400E+00
5.600	-0.211280E+01	-0.247000E-01	-0.116540E+01	0.309860E+01	0.101930E+01	-0.596300E+00	-0.842200E+00
5.800	-0.216290E+01	0.690000E-01	-0.129600E+01	0.313030E+01	0.757600E+00	-0.581900E+00	-0.774000E+00
6.000	-0.219830E+01	0.163600E+00	-0.136620E+01	0.313280E+01	0.462700E+00	-0.563800E+00	-0.701100E+00
6.200	-0.221710E+01	0.259500E+00	-0.138100E+01	0.310000E+01	0.173800E+00	-0.539300E+00	-0.628600E+00
6.400	-0.221590E+01	0.354500E+00	-0.134790E+01	0.302990E+01	-0.848000E-01	-0.507600E+00	-0.562400E+00
6.600	-0.219090E+01	0.445300E+00	-0.127560E+01	0.292140E+01	-0.305300E+00	-0.469500E+00	-0.506100E+00
6.800	-0.213880E+01	0.528100E+00	-0.117180E+01	0.277170E+01	-0.489600E+00	-0.426700E+00	-0.463000E+00
7.000	-0.205720E+01	0.599300E+00	-0.104370E+01	0.257710E+01	-0.642000E+00	-0.380500E+00	-0.433700E+00
7.200	-0.194530E+01	0.655600E+00	-0.897700E+00	0.233570E+01	-0.766400E+00	-0.331600E+00	-0.417500E+00
7.400	-0.180530E+01	0.694700E+00	-0.740100E+00	0.204980E+01	-0.865000E+00	-0.280600E+00	-0.413000E+00
7.600	-0.164260E+01	0.715600E+00	-0.577200E+00	0.172840E+01	-0.938600E+00	-0.227600E+00	-0.418200E+00
7.800	-0.146590E+01	0.719600E+00	-0.416200E+00	0.138690E+01	-0.987700E+00	-0.173300E+00	-0.430400E+00
8.200	-0.111250E+01	0.691100E+00	-0.125100E+00	0.718100E+00	-0.101850E+01	-0.644000E-01	-0.467600E+00
8.400	-0.953800E+00	0.668800E+00	-0.480000E-02	0.421800E+00	-0.100690E+01	-0.127000E-01	-0.489300E+00
8.600	-0.813600E+00	0.647800E+00	0.954000E-01	0.161800E+00	-0.983300E+00	0.350000E-01	-0.511400E+00
8.800	-0.692800E+00	0.631900E+00	0.174800E+00	0.608000E-01	-0.952200E+00	0.775000E-01	-0.533700E+00
9.000	-0.590000E+00	0.623400E+00	0.233700E+00	0.249100E+00	-0.917500E+00	0.113600E+00	-0.555700E+00
9.200	-0.502500E+00	0.622900E+00	0.272700E+00	0.407900E+00	-0.882400E+00	0.141600E+00	-0.576400E+00
9.400	-0.426800E+00	0.629300E+00	0.293700E+00	0.542700E+00	-0.849100E+00	0.160500E+00	-0.596500E+00
9.600	-0.359500E+00	0.639500E+00	0.299400E+00	0.658800E+00	-0.819500E+00	0.169300E+00	-0.616600E+00
9.800	-0.297000E+00	0.649100E+00	0.294200E+00	0.761100E+00	-0.794300E+00	0.166000E+00	-0.636300E+00
10.000	-0.236200E+00	0.653700E+00	0.282900E+00	0.854100E+00	-0.774000E+00	0.149300E+00	-0.656200E+00
10.200	-0.173900E+00	0.649700E+00	0.270200E+00	0.941100E+00	-0.758200E+00	0.117700E+00	-0.676800E+00
10.400	-0.107400E+00	0.634800E+00	0.259000E+00	0.102480E+01	-0.746000E+00	0.701000E-01	-0.698200E+00
10.600	-0.350000E-01	0.607600E+00	0.250800E+00	0.110670E+01	-0.735600E+00	0.640000E-02	-0.720200E+00
10.800	0.444000E-01	0.568200E+00	0.246200E+00	0.118690E+01	-0.725300E+00	-0.721000E-01	-0.741800E+00
11.000	0.129900E+00	0.518200E+00	0.244600E+00	0.126440E+01	-0.712700E+00	-0.161700E+00	-0.761300E+00
11.200	0.219200E+00	0.460800E+00	0.245100E+00	0.133730E+01	-0.695900E+00	-0.256400E+00	-0.776300E+00
11.400	0.308800E+00	0.400600E+00	0.246600E+00	0.140380E+01	-0.673700E+00	-0.348800E+00	-0.784600E+00
11.600	0.395300E+00	0.342300E+00	0.248100E+00	0.146320E+01	-0.645700E+00	-0.432000E+00	-0.784300E+00
11.800	0.476300E+00	0.289900E+00	0.248600E+00	0.151620E+01	-0.612100E+00	-0.501300E+00	-0.774500E+00
12.000	0.551200E+00	0.245800E+00	0.247900E+00	0.156440E+01	-0.573800E+00	-0.554400E+00	-0.755100E+00
12.200	0.620300E+00	0.210800E+00	0.245800E+00	0.160990E+01	-0.531400E+00	-0.591300E+00	-0.726500E+00
12.400	0.685200E+00	0.184800E+00	0.242500E+00	0.165470E+01	-0.485700E+00	-0.613500E+00	-0.689300E+00
12.600	0.747800E+00	0.167400E+00	0.238100E+00	0.170080E+01	-0.437400E+00	-0.622700E+00	-0.644100E+00
12.800	0.810100E+00	0.157800E+00	0.233100E+00	0.175000E+01	-0.386900E+00	-0.620900E+00	-0.592400E+00
13.000	0.874200E+00	0.155300E+00	0.227700E+00	0.180380E+01	-0.334900E+00	-0.609800E+00	-0.536600E+00
13.200	0.942300E+00	0.159700E+00	0.222300E+00	0.186400E+01	-0.281600E+00	-0.590800E+00	-0.479600E+00
13.400	0.101650E+01	0.170600E+00	0.217000E+00	0.193190E+01	-0.227300E+00	-0.564900E+00	-0.423900E+00
13.600	0.109850E+01	0.188000E+00	0.212100E+00	0.200880E+01	-0.172200E+00	-0.532900E+00	-0.369900E+00
13.800	0.118960E+01	0.211900E+00	0.207600E+00	0.209510E+01	-0.116200E+00	-0.495200E+00	-0.315500E+00
14.000	0.128990E+01	0.241900E+00	0.203500E+00	0.218980E+01	-0.590000E-01	-0.452100E+00	-0.259100E+00
14.200	0.139760E+01	0.277300E+00	0.199500E+00	0.228920E+01	0.300000E-03	-0.404000E+00	-0.198800E+00
14.400	0.150800E+01	0.316300E+00	0.195200E+00	0.238690E+01	0.599000E-01	-0.351400E+00	-0.133400E+00
14.600	0.161420E+01	0.356100E+00	0.189900E+00	0.247390E+01	0.121300E+00	-0.295700E+00	-0.628000E-01
15.000	0.178500E+01	0.425400E+00	0.175600E+00	0.258520E+01	0.242900E+00	-0.183900E+00	0.860000E-01
15.200	0.184160E+01	0.450500E+00	0.166700E+00	0.260450E+01	0.300500E+00	-0.132200E+00	0.158900E+00
15.800	0.191320E+01	0.486600E+00	0.138100E+00	0.256270E+01	0.451000E+00	-0.126000E-02	0.354500E+00
16.400	0.190140E+01	0.485200E+00	0.113000E+00	0.246920E+01	0.572300E+00	0.102800E+00	0.512200E+00
16.600	0.188860E+01	0.480500E+00	0.105900E+00	0.243910E+01	0.608400E+00	0.137100E+00	0.556800E+00
16.800	0.187290E+01	0.474500E+00	0.992000E-01	0.241130E+01	0.643100E+00	0.172000E+00	0.597800E+00
17.000	0.185470E+01	0.467500E+00	0.932000E-01	0.238690E+01	0.677300E+00	0.209900E+00	0.637000E+00
17.200	0.183440E+01	0.459800E+00	0.876000E-01	0.236540E+01	0.710800E+00	0.249900E+00	0.672800E+00
17.400	0.181200E+01	0.451400E+00	0.824000E-01	0.234720E+01	0.744100E+00	0.293000E+00	0.706200E+00
17.600	0.178750E+01	0.442400E+00	0.775000E-01	0.233220E+01	0.777500E+00	0.339500E+00	0.737400E+00
17.800	0.176110E+01	0.432800E+00	0.730000E-01	0.232010E+01	0.810900E+00	0.389600E+00	0.766700E+00
18.000	0.173260E+01	0.422700E+00	0.687000E-01	0.231080E+01	0.844500E+00	0.443100E+00	0.794000E+00
18.200	0.170200E+01	0.411800E+00	0.647000E-01	0.230390E+01	0.878200E+00	0.499900E+00	0.819600E+00
18.400	0.166950E+01	0.400300E+00	0.609000E-01	0.229890E+01	0.911700E+00	0.559500E+00	0.843500E+00
18.600	0.163520E+01	0.388100E+00	0.573000E-01	0.229560E+01	0.944900E+00	0.621200E+00	0.865800E+00
18.800	0.159930E+01	0.375100E+00	0.539000E-01	0.229340E+01	0.977300E+00	0.684300E+00	0.886400E+00
19.000	0.156230E+01	0.361300E+00	0.506000E-01	0.229220E+01	0.100880E+01	0.747600E+00	0.905400E+00
19.200	0.152460E+01	0.346900E+00	0.475000E-01	0.229160E+01	0.103900E+01	0.810600E+00	0.923000E+00
19.600	0.144910E+01	0.316100E+00	0.420000E-01	0.229190E+01	0.109380E+01	0.931100E+00	0.953400E+00
19.800	0.141240E+01	0.300200E+00	0.394000E-01	0.229260E+01	0.111830E+01	0.987100E+00	0.966900E+00
20.000	0.137710E+01	0.284000E+00	0.370000E-01	0.229400E+01	0.114050E+01	0.103950E+01	0.979300E+00
20.200	0.134360E+01	0.267700E+00	0.348000E-01	0.229600E+01	0.116020E+01	0.108780E+01	0.990600E+00
20.400	0.131220E+01	0.251400E+00	0.328000E-01	0.229910E+01	0.117780E+01	0.113200E+01	0.100120E+01

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2
3 20.600 0.128330E+01 0.235400E+00 0.309000E-01 0.230300E+01 0.119280E+01 0.117110E+01 0.101000E+01
4 20.800 0.125700E+01 0.219600E+00 0.292000E-01 0.230860E+01 0.120580E+01 0.120650E+01 0.101940E+01
5 21.000 0.123340E+01 0.204100E+00 0.276000E-01 0.231570E+01 0.121660E+01 0.123740E+01 0.102780E+01
6 21.200 0.121250E+01 0.189000E+00 0.261000E-01 0.232460E+01 0.122550E+01 0.126450E+01 0.103660E+01
7 25.000 0.203000E-01 0.784000E-01 0.188000E-01 0.705000E-01 0.780000E-01 0.400000E-03 0.601000E-01
8 25.200 0.210000E-01 0.768000E-01 0.184000E-01 0.657000E-01 0.746000E-01 0.150000E-02 0.584000E-01
9 25.400 0.214000E-01 0.751000E-01 0.179000E-01 0.615000E-01 0.715000E-01 0.290000E-02 0.569000E-01
10 26.200 0.216000E-01 0.689000E-01 0.161000E-01 0.492000E-01 0.616000E-01 0.660000E-02 0.526000E-01
11 26.600 0.212000E-01 0.660000E-01 0.152000E-01 0.448000E-01 0.577000E-01 0.760000E-02 0.509000E-01
12 26.800 0.209000E-01 0.646000E-01 0.148000E-01 0.429000E-01 0.560000E-01 0.800000E-02 0.502000E-01
13 30.000 0.150000E-01 0.257000E-01 0.372000E-01 0.860000E-02 0.409000E-01 0.123000E-01 0.144200E+00

For Peer Review Only

Table 5: $(1)^3\Sigma^+-(1-7)^3\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.800	-0.530300E+00	0.181000E+01	-0.207800E+01	-0.111220E+01	-0.536200E+00	-0.731300E+00	-0.775000E+00
4.000	-0.386400E+00	0.190080E+01	-0.218090E+01	-0.106540E+01	-0.544200E+00	-0.233100E+00	-0.440300E+00
4.200	-0.261300E+00	0.198750E+01	-0.225350E+01	-0.103500E+01	-0.507500E+00	-0.118800E+00	-0.389000E-01
4.600	0.549000E-01	0.215500E+01	-0.232650E+01	-0.100590E+01	-0.382200E+00	-0.348100E+00	0.242400E+00
4.800	0.295000E-01	0.223210E+01	-0.233610E+01	-0.101100E+01	-0.302800E+00	-0.416600E+00	0.123000E-01
5.000	0.102600E+00	0.230140E+01	-0.233190E+01	-0.103330E+01	-0.207800E+00	-0.445300E+00	0.385800E+00
5.200	0.165300E+00	0.236140E+01	-0.230870E+01	-0.108680E+01	-0.886000E-01	-0.454200E+00	0.383400E+00
5.400	0.218700E+00	0.241140E+01	-0.220400E+01	-0.127770E+01	0.695000E-01	-0.452000E+00	0.375000E+00
5.600	0.264100E+00	0.245190E+01	0.498800E+00	-0.248020E+01	0.288300E+00	-0.442500E+00	0.364000E+00
5.800	0.302800E+00	0.248380E+01	0.884400E+00	-0.231510E+01	0.588700E+00	-0.426400E+00	0.350200E+00
6.000	0.336100E+00	0.250800E+01	0.970800E+00	-0.215850E+01	0.954500E+00	-0.402900E+00	0.332800E+00
6.200	0.365400E+00	0.252590E+01	0.102550E+01	-0.195300E+01	0.130010E+01	-0.369100E+00	0.311200E+00
6.400	0.391900E+00	0.253850E+01	0.107370E+01	-0.175200E+01	0.154810E+01	-0.319900E+00	0.285600E+00
6.600	0.416800E+00	0.254700E+01	0.112230E+01	-0.159710E+01	0.169890E+01	-0.247400E+00	0.256700E+00
6.800	0.440900E+00	0.255210E+01	0.117520E+01	-0.149040E+01	0.178230E+01	-0.147000E+00	0.226100E+00
7.000	0.465200E+00	0.255460E+01	0.123450E+01	-0.141930E+01	0.181820E+01	-0.332000E-01	0.195500E+00
7.200	0.490400E+00	0.255520E+01	0.130240E+01	-0.137110E+01	0.181990E+01	0.506000E-01	0.166900E+00
7.400	0.517100E+00	0.255420E+01	0.138010E+01	-0.133600E+01	0.180010E+01	0.733000E-01	0.141500E+00
7.600	0.545800E+00	0.255200E+01	0.146820E+01	-0.130630E+01	0.176440E+01	0.497000E-01	0.120000E+00
7.800	0.576800E+00	0.254880E+01	0.156580E+01	-0.127700E+01	0.171330E+01	-0.103000E-01	0.102400E+00
8.200	0.647600E+00	0.253960E+01	0.177880E+01	-0.121020E+01	0.156790E+01	-0.562000E-01	0.769000E-01
8.400	0.687800E+00	0.253370E+01	0.188560E+01	-0.117480E+01	0.147660E+01	-0.776000E-01	0.676000E-01
8.600	0.731800E+00	0.252660E+01	0.198660E+01	-0.114250E+01	0.137500E+01	-0.927000E-01	0.597000E-01
8.800	0.779800E+00	0.251810E+01	0.207850E+01	-0.111740E+01	0.126420E+01	-0.102900E+00	0.527000E-01
9.000	0.832100E+00	0.250800E+01	0.215960E+01	-0.110160E+01	0.114550E+01	-0.109500E+00	0.459000E-01
9.200	0.888900E+00	0.249580E+01	0.222930E+01	-0.109420E+01	0.102110E+01	-0.113300E+00	0.388000E-01
9.400	0.950600E+00	0.248110E+01	0.228840E+01	-0.109120E+01	0.894900E+00	-0.114900E+00	0.312000E-01
9.600	0.101740E+01	0.246310E+01	0.233800E+01	-0.108680E+01	0.773600E+00	-0.114800E+00	0.226000E-01
9.800	0.108940E+01	0.244130E+01	0.237930E+01	-0.107680E+01	0.664600E+00	-0.113200E+00	0.128000E-01
10.000	0.116660E+01	0.241500E+01	0.241380E+01	-0.105980E+01	0.572800E+00	-0.110500E+00	0.190000E-02
10.200	0.124910E+01	0.238330E+01	0.244280E+01	-0.103730E+01	0.499800E+00	-0.106700E+00	0.101000E-01
10.400	0.133640E+01	0.234550E+01	0.246740E+01	-0.101150E+01	0.443900E+00	-0.102000E+00	0.225000E-01
10.600	0.142810E+01	0.230100E+01	0.248860E+01	-0.984300E+00	0.402100E+00	-0.964000E-01	0.345000E-01
10.800	0.152330E+01	0.224910E+01	0.250740E+01	-0.956800E+00	0.371100E+00	-0.901000E-01	0.454000E-01
11.000	0.162110E+01	0.218960E+01	0.252430E+01	-0.929300E+00	0.348400E+00	-0.831000E-01	0.544000E-01
11.200	0.172020E+01	0.212240E+01	0.253990E+01	-0.901900E+00	0.331800E+00	-0.755000E-01	0.613000E-01
11.400	0.181920E+01	0.204780E+01	0.255470E+01	-0.874400E+00	0.319500E+00	-0.672000E-01	0.663000E-01
11.600	0.191660E+01	0.196620E+01	0.256890E+01	-0.846400E+00	0.310500E+00	-0.586000E-01	0.694000E-01
11.800	0.201090E+01	0.187880E+01	0.258280E+01	-0.817600E+00	0.303800E+00	-0.495000E-01	0.711000E-01
12.000	0.210090E+01	0.178680E+01	0.259640E+01	-0.787500E+00	0.298800E+00	-0.403000E-01	0.717000E-01
12.200	0.218570E+01	0.169140E+01	0.260960E+01	-0.756000E+00	0.294900E+00	-0.309000E-01	0.712000E-01
12.400	0.226440E+01	0.159410E+01	0.262250E+01	-0.722900E+00	0.291800E+00	-0.217000E-01	0.699000E-01
12.600	0.233680E+01	0.149630E+01	0.263480E+01	-0.688000E+00	0.289200E+00	-0.128000E-01	0.677000E-01
12.800	0.240280E+01	0.139930E+01	0.264640E+01	-0.651400E+00	0.287100E+00	-0.420000E-02	0.646000E-01
13.000	0.246260E+01	0.130420E+01	0.265700E+01	-0.613200E+00	0.285100E+00	0.400000E-02	0.605000E-01
13.200	0.251640E+01	0.121200E+01	0.266660E+01	-0.573700E+00	0.283300E+00	0.115000E-01	0.554000E-01
13.400	0.256470E+01	0.112330E+01	0.267490E+01	-0.533200E+00	0.281500E+00	0.184000E-01	0.490000E-01
13.600	0.260800E+01	0.103890E+01	0.268180E+01	-0.492100E+00	0.279800E+00	0.247000E-01	0.410000E-01
13.800	0.264670E+01	0.959000E+00	0.268720E+01	-0.450700E+00	0.278100E+00	0.303000E-01	0.314000E-01
14.000	0.268130E+01	0.884000E+00	0.269120E+01	-0.409700E+00	0.276300E+00	0.353000E-01	0.201000E-01
14.200	0.271240E+01	0.813900E+00	0.269370E+01	-0.369300E+00	0.274500E+00	0.396000E-01	0.770000E-02
14.400	0.274030E+01	0.748800E+00	0.269480E+01	-0.330000E+00	0.272700E+00	0.434000E-01	-0.420000E-02
14.600	0.276530E+01	0.688600E+00	0.269480E+01	-0.292200E+00	0.270900E+00	0.467000E-01	-0.139000E-01
15.000	0.280830E+01	0.582200E+00	0.269150E+01	-0.222000E+00	0.267100E+00	0.518000E-01	-0.240000E-01
15.200	0.282680E+01	0.535500E+00	0.268860E+01	-0.190000E+00	0.265100E+00	0.538000E-01	-0.252000E-01
15.800	0.287300E+01	0.418400E+00	0.267690E+01	-0.106800E+00	0.258900E+00	0.577000E-01	-0.218000E-01
16.400	0.290850E+01	0.329600E+00	0.266300E+01	-0.417000E-01	0.252400E+00	0.595000E-01	-0.147000E-01
16.600	0.291860E+01	0.305100E+00	0.265820E+01	-0.234000E-01	0.250200E+00	0.598000E-01	-0.122000E-01
16.800	0.292790E+01	0.282700E+00	0.265350E+01	-0.670000E-02	0.247900E+00	0.599000E-01	-0.980000E-02
17.000	0.293660E+01	0.262200E+00	0.264880E+01	0.870000E-02	0.245400E+00	0.599000E-01	-0.740000E-02
17.200	0.294470E+01	0.243500E+00	0.264430E+01	0.229000E-01	0.243000E+00	0.599000E-01	-0.510000E-02
17.400	0.295230E+01	0.226400E+00	0.263980E+01	0.360000E-01	0.240400E+00	0.597000E-01	-0.280000E-02
17.600	0.295940E+01	0.210700E+00	0.263550E+01	0.482000E-01	0.237700E+00	0.594000E-01	-0.300000E-03
17.800	0.296610E+01	0.196300E+00	0.263140E+01	0.597000E-01	0.234800E+00	0.591000E-01	0.440000E-02
18.000	0.297240E+01	0.183000E+00	0.262730E+01	0.705000E-01	0.231800E+00	0.587000E-01	0.321000E-01
18.200	0.297830E+01	0.170800E+00	0.262350E+01	0.807000E-01	0.228600E+00	0.583000E-01	0.319000E-01
18.400	0.298390E+01	0.159500E+00	0.261970E+01	0.905000E-01	0.225200E+00	0.578000E-01	0.314000E-01
18.600	0.298920E+01	0.149100E+00	0.261610E+01	0.100000E+00	0.221400E+00	0.573000E-01	0.309000E-01
18.800	0.299430E+01	0.139500E+00	0.261270E+01	0.109200E+00	0.217400E+00	0.567000E-01	0.305000E-01
19.000	0.299910E+01	0.130600E+00	0.260940E+01	0.118200E+00	0.213000E+00	0.561000E-01	0.300000E-01
19.200	0.300360E+01	0.122400E+00	0.260620E+01	0.127200E+00	0.208200E+00	0.555000E-01	0.296000E-01
19.600	0.301210E+01	0.107600E+00	0.260020E+01	0.144800E+00	0.197000E+00	0.541000E-01	0.288000E-01
19.800	0.301610E+01	0.100900E+00	0.259730E+01	0.153600E+00	0.190600E+00	0.533000E-01	0.284000E-01
20.000	0.301990E+01	0.947000E-01	0.259460E+01	0.162300E+00	0.183600E+00	0.525000E-01	0.281000E-01
20.200	0.302350E+01	0.889000E-01	0.259200E+01	0.170900E+00	0.175900E+00	0.517000E-01	0.278000E-01
20.400	0.302700E+01	0.835000E-01	0.258940E+01	0.179200E+00	0.167600E+00	0.509000E-01	0.274000E-01

20.600 0.303030E+01 0.784000E-01 0.258700E+01 0.187300E+00 0.158800E+00 0.500000E-01 0.272000E-01
20.800 0.303350E+01 0.737000E-01 0.258460E+01 0.195000E+00 0.149500E+00 0.491000E-01 0.269000E-01
21.000 0.303660E+01 0.692000E-01 0.258240E+01 0.202200E+00 0.139900E+00 0.481000E-01 0.266000E-01
21.200 0.303960E+01 0.650000E-01 0.258020E+01 0.208700E+00 0.130200E+00 0.471000E-01 0.264000E-01
25.000 0.307970E+01 0.180000E-01 0.255000E+01 0.246200E+00 0.178000E-01 0.250000E-01 0.232000E-01
25.200 0.308120E+01 0.166000E-01 0.254870E+01 0.246400E+00 0.156000E-01 0.239000E-01 0.230000E-01
25.400 0.308260E+01 0.153000E-01 0.254690E+01 0.246500E+00 0.137000E-01 0.228000E-01 0.229000E-01
26.200 0.308800E+01 0.106000E-01 0.254360E+01 0.246700E+00 0.740000E-02 0.188000E-01 0.221000E-01
26.600 0.309040E+01 0.860000E-02 0.254170E+01 0.246700E+00 0.510000E-02 0.169000E-01 0.216000E-01
26.800 0.309160E+01 0.770000E-02 0.254080E+01 0.246600E+00 0.400000E-02 0.160000E-01 0.214000E-01
29.800 0.310540E+01 0.190000E-02 0.252960E+01 0.245700E+00 0.390000E-02 0.700000E-02 0.171000E-01
30.600 0.310830E+01 0.350000E-02 0.252740E+01 0.245500E+00 0.470000E-02 0.570000E-02 0.159000E-01

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Table 6: $(2)^3\Sigma^+-(1-7)^3\Pi$ transitions

R	2-1	2-2	2-3	2-4	2-5	2-6	2-7
3.800	0.952700E+00	0.324500E+00	-0.496000E-01	0.316200E+00	-0.281800E+00	-0.112010E+01	-0.616500E+00
4.000	0.102510E+01	0.257900E+00	0.100000E-01	0.428200E+00	-0.171400E+00	-0.123700E+01	-0.813300E+00
4.200	0.110440E+01	0.225600E+00	0.352000E-01	0.586400E+00	-0.934000E-01	-0.752500E+00	-0.189850E+01
4.600	0.128830E+01	0.255900E+00	0.141500E+00	0.934200E+00	0.680000E-01	-0.793700E+00	-0.232020E+01
4.800	0.139260E+01	0.316000E+00	0.205300E+00	0.111940E+01	0.115900E+00	-0.117120E+01	-0.202280E+01
5.000	0.150400E+01	0.405700E+00	0.283400E+00	0.131480E+01	0.193600E+00	-0.134940E+01	-0.653900E+00
5.200	0.162040E+01	0.525800E+00	0.393800E+00	0.151990E+01	0.291400E+00	-0.142560E+01	-0.611600E+00
5.400	0.173800E+01	0.677300E+00	0.635300E+00	0.170230E+01	0.395400E+00	-0.143030E+01	-0.618100E+00
5.600	0.184920E+01	0.859400E+00	0.208240E+01	0.105100E+00	0.483100E+00	-0.136620E+01	-0.631700E+00
5.800	0.194000E+01	0.106490E+01	0.229800E+01	0.551800E+00	0.519000E+00	-0.122830E+01	-0.640700E+00
6.000	0.199230E+01	0.127470E+01	0.250520E+01	0.767900E+00	0.468400E+00	-0.101950E+01	-0.638200E+00
6.200	0.199390E+01	0.146040E+01	0.265500E+01	0.914200E+00	0.342300E+00	-0.764600E+00	-0.619900E+00
6.400	0.194900E+01	0.160070E+01	0.272960E+01	0.978200E+00	0.200800E+00	-0.503900E+00	-0.588000E+00
6.600	0.187490E+01	0.169250E+01	0.273960E+01	0.981600E+00	0.876000E-01	-0.269800E+00	-0.548100E+00
6.800	0.178820E+01	0.174530E+01	0.270670E+01	0.956800E+00	0.126000E-01	-0.747000E-01	-0.505100E+00
7.000	0.169870E+01	0.177120E+01	0.264950E+01	0.927100E+00	-0.284000E-01	0.823000E-01	-0.461200E+00
7.200	0.161060E+01	0.177970E+01	0.257950E+01	0.906100E+00	-0.490000E-01	0.205900E+00	-0.417300E+00
7.400	0.152530E+01	0.177730E+01	0.250240E+01	0.900600E+00	-0.668000E-01	0.300800E+00	-0.373400E+00
7.600	0.144290E+01	0.176800E+01	0.242100E+01	0.913500E+00	-0.903000E-01	0.372800E+00	-0.329400E+00
7.800	0.136330E+01	0.175470E+01	0.233630E+01	0.944300E+00	-0.117000E+00	0.427400E+00	-0.285200E+00
8.200	0.121090E+01	0.172280E+01	0.215960E+01	0.104590E+01	-0.159600E+00	0.502100E+00	-0.196400E+00
8.400	0.113770E+01	0.170640E+01	0.207060E+01	0.110550E+01	-0.167400E+00	0.528800E+00	-0.152600E+00
8.600	0.106640E+01	0.169070E+01	0.198420E+01	0.116340E+01	-0.161100E+00	0.551200E+00	-0.109900E+00
8.800	0.996800E+00	0.167610E+01	0.190280E+01	0.121520E+01	-0.137600E+00	0.570700E+00	-0.691000E-01
9.000	0.929100E+00	0.166300E+01	0.182830E+01	0.125790E+01	-0.941000E-01	0.588400E+00	-0.309000E-01
9.200	0.863200E+00	0.165170E+01	0.176170E+01	0.128910E+01	-0.307000E-01	0.605100E+00	-0.400000E-02
9.400	0.799400E+00	0.164260E+01	0.170310E+01	0.130670E+01	0.485000E-01	0.621600E+00	0.342000E-01
9.600	0.737800E+00	0.163580E+01	0.165220E+01	0.131000E+01	0.134600E+00	0.638100E+00	0.590000E-01
9.800	0.678800E+00	0.163180E+01	0.160790E+01	0.130070E+01	0.216700E+00	0.655300E+00	0.771000E-01
10.000	0.622600E+00	0.163070E+01	0.156920E+01	0.128220E+01	0.286400E+00	0.673500E+00	0.881000E-01
10.200	0.569700E+00	0.163290E+01	0.153500E+01	0.125830E+01	0.340100E+00	0.692900E+00	0.916000E-01
10.400	0.520300E+00	0.163870E+01	0.150390E+01	0.123140E+01	0.378100E+00	0.713900E+00	0.884000E-01
10.600	0.474800E+00	0.164850E+01	0.147480E+01	0.120310E+01	0.402800E+00	0.736500E+00	0.799000E-01
10.800	0.433400E+00	0.166260E+01	0.144670E+01	0.117360E+01	0.417400E+00	0.760900E+00	0.682000E-01
11.000	0.396300E+00	0.168110E+01	0.141860E+01	0.114310E+01	0.424500E+00	0.787100E+00	0.552000E-01
11.200	0.363300E+00	0.170430E+01	0.138970E+01	0.111130E+01	0.426600E+00	0.814900E+00	0.426000E-01
11.400	0.334600E+00	0.173200E+01	0.135900E+01	0.107830E+01	0.425500E+00	0.844200E+00	0.312000E-01
11.600	0.309700E+00	0.176410E+01	0.132610E+01	0.104370E+01	0.422500E+00	0.874600E+00	0.219000E-01
11.800	0.288300E+00	0.180040E+01	0.129040E+01	0.100780E+01	0.418800E+00	0.905700E+00	0.150000E-01
12.000	0.270000E+00	0.184050E+01	0.125160E+01	0.970300E+00	0.414900E+00	0.937300E+00	0.109000E-01
12.200	0.254300E+00	0.188360E+01	0.120960E+01	0.931400E+00	0.411300E+00	0.968900E+00	0.101000E-01
12.400	0.240700E+00	0.192930E+01	0.116440E+01	0.891100E+00	0.408300E+00	0.100030E+01	0.131000E-01
12.600	0.228700E+00	0.197660E+01	0.111610E+01	0.849300E+00	0.406000E+00	0.103110E+01	0.204000E-01
12.800	0.217900E+00	0.202490E+01	0.106520E+01	0.806100E+00	0.404500E+00	0.106100E+01	0.326000E-01
13.000	0.208100E+00	0.207330E+01	0.101220E+01	0.761400E+00	0.403800E+00	0.108970E+01	0.504000E-01
13.200	0.198900E+00	0.212110E+01	0.957700E+00	0.715400E+00	0.403900E+00	0.111690E+01	0.748000E-01
13.400	0.190200E+00	0.216770E+01	0.902500E+00	0.668000E+00	0.404700E+00	0.114250E+01	0.106700E+00
13.600	0.181900E+00	0.221250E+01	0.847200E+00	0.619300E+00	0.406200E+00	0.116640E+01	0.147300E+00
13.800	0.173900E+00	0.225520E+01	0.792700E+00	0.569500E+00	0.408400E+00	0.118830E+01	0.197600E+00
14.000	0.166100E+00	0.229540E+01	0.739500E+00	0.518900E+00	0.411200E+00	0.120830E+01	0.256600E+00
14.200	0.158500E+00	0.233300E+01	0.688300E+00	0.467500E+00	0.414600E+00	0.122630E+01	0.319700E+00
14.400	0.151100E+00	0.236780E+01	0.639500E+00	0.415600E+00	0.418700E+00	0.124240E+01	0.378500E+00
14.600	0.143900E+00	0.240000E+01	0.593400E+00	0.363600E+00	0.423300E+00	0.125650E+01	0.425000E+00
15.000	0.130200E+00	0.245640E+01	0.510400E+00	0.260100E+00	0.434200E+00	0.127950E+01	0.475000E+00
15.200	0.123700E+00	0.248100E+01	0.473400E+00	0.209100E+00	0.440500E+00	0.128840E+01	0.485000E+00
15.400	0.105700E+00	0.254240E+01	0.380200E+00	0.619000E-01	0.463000E+00	0.130620E+01	0.489500E+00
16.400	0.900000E-01	0.258870E+01	0.309700E+00	-0.734000E-01	0.491000E+00	0.131220E+01	0.483200E+00
16.600	0.852000E-01	0.260150E+01	0.290400E+00	-0.115400E+00	0.501600E+00	0.131190E+01	0.480700E+00
16.800	0.808000E-01	0.261330E+01	0.272700E+00	-0.155600E+00	0.513000E+00	0.131060E+01	0.478100E+00
17.000	0.766000E-01	0.262400E+01	0.256700E+00	-0.194100E+00	0.525200E+00	0.130830E+01	0.475200E+00
17.200	0.726000E-01	0.263390E+01	0.242000E+00	-0.230900E+00	0.538300E+00	0.130510E+01	0.471300E+00
17.400	0.689000E-01	0.264300E+01	0.228600E+00	-0.265800E+00	0.552300E+00	0.130090E+01	0.464400E+00
17.600	0.653000E-01	0.265140E+01	0.216300E+00	-0.298800E+00	0.567300E+00	0.129590E+01	0.448100E+00
17.800	0.620000E-01	0.265920E+01	0.205000E+00	-0.329800E+00	0.583400E+00	0.129000E+01	0.365100E+00
18.000	0.589000E-01	0.266640E+01	0.194600E+00	-0.358800E+00	0.600700E+00	0.128320E+01	0.794400E+00
18.200	0.559000E-01	0.267310E+01	0.185000E+00	-0.385600E+00	0.619400E+00	0.127550E+01	0.841300E+00
18.400	0.532000E-01	0.267930E+01	0.176100E+00	-0.410100E+00	0.639500E+00	0.126690E+01	0.837800E+00
18.600	0.506000E-01	0.268510E+01	0.167900E+00	-0.432200E+00	0.661300E+00	0.125750E+01	0.828000E+00
18.800	0.481000E-01	0.269060E+01	0.160200E+00	-0.451700E+00	0.684800E+00	0.124710E+01	0.816100E+00
19.000	0.458000E-01	0.269570E+01	0.153100E+00	-0.468300E+00	0.710200E+00	0.123580E+01	0.803300E+00
19.200	0.436000E-01	0.270050E+01	0.146400E+00	-0.481800E+00	0.737500E+00	0.122350E+01	0.790100E+00
19.600	0.396000E-01	0.270930E+01	0.134300E+00	-0.498400E+00	0.798500E+00	0.119590E+01	0.763900E+00
19.800	0.377000E-01	0.271340E+01	0.128800E+00	-0.500900E+00	0.832100E+00	0.118060E+01	0.751100E+00
20.000	0.360000E-01	0.271720E+01	0.123600E+00	-0.499300E+00	0.867600E+00	0.116420E+01	0.738600E+00
20.200	0.343000E-01	0.272090E+01	0.118800E+00	-0.493400E+00	0.904800E+00	0.114680E+01	0.726300E+00
20.400	0.327000E-01	0.272430E+01	0.114100E+00	-0.483100E+00	0.943400E+00	0.112830E+01	0.714500E+00

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3 20.600 0.311000E-01 0.272760E+01 0.109800E+00 -0.468700E+00 0.982900E+00 0.110870E+01 0.703000E+00
4 20.800 0.297000E-01 0.273080E+01 0.105600E+00 -0.450500E+00 0.102290E+01 0.108810E+01 0.691900E+00
5 21.000 0.283000E-01 0.273380E+01 0.101700E+00 -0.429000E+00 0.106260E+01 0.106640E+01 0.681100E+00
6 21.200 0.269000E-01 0.273660E+01 0.979000E-01 -0.404900E+00 0.110170E+01 0.104380E+01 0.670800E+00
7 25.000 0.940000E-02 0.277180E+01 0.516000E-01 -0.435000E-01 0.154010E+01 0.549200E+00 0.541400E+00
8 25.200 0.880000E-02 0.277290E+01 0.500000E-01 -0.357000E-01 0.155020E+01 0.526400E+00 0.537600E+00
9 25.400 0.830000E-02 0.277400E+01 0.485000E-01 -0.286000E-01 0.155940E+01 0.504300E+00 0.534200E+00
10 26.200 0.640000E-02 0.277780E+01 0.430000E-01 -0.640000E-02 0.158970E+01 0.423300E+00 0.522800E+00
11 26.600 0.560000E-02 0.277950E+01 0.406000E-01 0.160000E-02 0.160140E+01 0.387400E+00 0.519400E+00
12 26.800 0.530000E-02 0.278030E+01 0.394000E-01 0.510000E-02 0.160660E+01 0.370500E+00 0.518100E+00
13 29.800 0.200000E-02 0.278980E+01 0.261000E-01 0.265000E-01 0.164880E+01 0.191900E+00 0.537400E+00
14 30.600 0.150000E-02 0.279180E+01 0.235000E-01 0.271000E-01 0.165350E+01 0.162900E+00 0.557400E+00
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Table 7: $(3)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	3-1	3-2	3-3	3-4	3-5	3-6	3-7
3.800	0.138210E+01	0.186060E+01	-0.653900E+00	-0.456560E+01	-0.235150E+01	0.123180E+01	-0.159680E+01
4.000	0.132970E+01	0.192280E+01	-0.682400E+00	-0.431730E+01	-0.308810E+01	0.560100E+00	-0.394100E+00
4.200	0.126850E+01	0.197730E+01	-0.711700E+00	-0.415050E+01	-0.310600E+01	0.332200E+00	0.736000E-01
4.600	0.111900E+01	0.203150E+01	-0.748500E+00	-0.377230E+01	-0.260020E+01	0.324700E+00	0.344800E+00
4.800	0.102730E+01	0.202560E+01	-0.756500E+00	-0.352930E+01	-0.225250E+01	0.618200E+00	0.238700E+00
5.000	0.920300E+00	0.199920E+01	-0.766000E+00	-0.326050E+01	-0.189710E+01	0.870600E+00	-0.785000E-01
5.200	0.791300E+00	0.195330E+01	-0.795400E+00	-0.296720E+01	-0.155040E+01	0.110230E+01	-0.860000E-01
5.400	0.630600E+00	0.188480E+01	-0.959100E+00	-0.260190E+01	-0.121310E+01	0.132690E+01	-0.662000E-01
5.600	0.426300E+00	0.178610E+01	-0.243730E+01	-0.631000E-01	-0.877900E+00	0.155130E+01	-0.231000E-01
5.800	0.170900E+00	0.164750E+01	-0.201840E+01	-0.348700E+00	-0.544100E+00	0.177280E+01	0.424000E-01
6.000	0.129500E+00	0.146500E+01	-0.158120E+01	-0.235600E+00	-0.240100E+00	0.197530E+01	0.124700E+00
6.200	0.447500E+00	0.125040E+01	-0.113520E+01	-0.570000E-02	-0.224000E-01	0.213500E+01	0.213000E+00
6.400	0.746900E+00	0.103010E+01	-0.723100E+00	0.302900E+00	0.824000E-01	0.223780E+01	0.294300E+00
6.600	0.100460E+01	0.828800E+00	-0.379700E+00	0.597400E+00	0.946000E-01	0.228770E+01	0.361000E+00
6.800	0.121630E+01	0.658200E+00	-0.115600E+00	0.863400E+00	0.440000E-01	0.229820E+01	0.411800E+00
7.000	0.138780E+01	0.519000E+00	-0.738000E-01	0.109560E+01	-0.295000E-01	0.228140E+01	0.448500E+00
7.200	0.152700E+01	0.407600E+00	-0.198100E+00	0.129530E+01	-0.645000E-01	0.224980E+01	0.473800E+00
7.400	0.164080E+01	0.319100E+00	-0.266200E+00	0.146460E+01	0.218000E-01	0.221440E+01	0.489800E+00
7.600	0.173430E+01	0.249300E+00	-0.285700E+00	0.160450E+01	0.810000E-01	0.217710E+01	0.498200E+00
7.800	0.181100E+01	0.194800E+00	-0.264300E+00	0.171480E+01	0.208500E+00	0.213730E+01	0.499800E+00
8.200	0.192380E+01	0.121000E+00	-0.132900E+00	0.184050E+01	0.471200E+00	0.205700E+01	0.485800E+00
8.400	0.196330E+01	0.978000E-01	-0.432000E-01	0.185240E+01	0.601700E+00	0.202060E+01	0.470900E+00
8.600	0.199330E+01	0.817000E-01	0.488000E-01	0.182870E+01	0.733800E+00	0.198790E+01	0.450900E+00
8.800	0.201470E+01	0.717000E-01	0.135200E+00	0.176920E+01	0.868400E+00	0.195880E+01	0.425800E+00
9.000	0.202850E+01	0.667000E-01	0.211200E+00	0.167430E+01	0.100400E+01	0.193320E+01	0.395300E+00
9.200	0.203540E+01	0.662000E-01	0.274500E+00	0.154610E+01	0.113540E+01	0.191030E+01	0.359400E+00
9.400	0.203620E+01	0.694000E-01	0.324900E+00	0.139070E+01	0.125300E+01	0.188940E+01	0.317500E+00
9.600	0.203170E+01	0.761000E-01	0.363600E+00	0.121950E+01	0.134540E+01	0.186980E+01	0.269600E+00
9.800	0.202250E+01	0.858000E-01	0.391900E+00	0.104790E+01	0.140460E+01	0.185080E+01	0.214700E+00
10.000	0.200920E+01	0.984000E-01	0.411400E+00	0.889600E+00	0.142940E+01	0.183170E+01	0.153300E+00
10.200	0.199260E+01	0.113700E+00	0.423600E+00	0.752200E+00	0.142470E+01	0.181180E+01	0.863000E-01
10.400	0.197300E+01	0.131400E+00	0.429800E+00	0.637700E+00	0.139770E+01	0.179080E+01	0.157000E-01
10.600	0.195110E+01	0.151100E+00	0.430900E+00	0.543900E+00	0.135570E+01	0.176820E+01	-0.556000E-01
10.800	0.192720E+01	0.172600E+00	0.427900E+00	0.467500E+00	0.130420E+01	0.174410E+01	-0.123800E+00
11.000	0.190190E+01	0.195200E+00	0.421600E+00	0.404900E+00	0.124760E+01	0.171850E+01	-0.185400E+00
11.200	0.187550E+01	0.218500E+00	0.412400E+00	0.353000E+00	0.118870E+01	0.169180E+01	-0.237900E+00
11.400	0.184850E+01	0.241500E+00	0.401000E+00	0.309500E+00	0.112960E+01	0.166430E+01	-0.279900E+00
11.600	0.182130E+01	0.263700E+00	0.387800E+00	0.272200E+00	0.107180E+01	0.163660E+01	-0.311000E+00
11.800	0.179420E+01	0.284200E+00	0.373300E+00	0.239700E+00	0.101630E+01	0.160900E+01	-0.331500E+00
12.000	0.176780E+01	0.302300E+00	0.357700E+00	0.210800E+00	0.963600E+00	0.158170E+01	-0.342400E+00
12.200	0.174230E+01	0.317500E+00	0.341600E+00	0.184800E+00	0.914100E+00	0.155510E+01	-0.345000E+00
12.400	0.171810E+01	0.329500E+00	0.325100E+00	0.160800E+00	0.868100E+00	0.152900E+01	-0.340800E+00
12.600	0.169550E+01	0.338100E+00	0.308600E+00	0.138500E+00	0.825700E+00	0.150360E+01	-0.331100E+00
12.800	0.167460E+01	0.343200E+00	0.292300E+00	0.117200E+00	0.786900E+00	0.147870E+01	-0.317600E+00
13.000	0.165560E+01	0.345100E+00	0.276300E+00	0.969000E-01	0.751500E+00	0.145440E+01	-0.301300E+00
13.200	0.163840E+01	0.343900E+00	0.261000E+00	0.772000E-01	0.719500E+00	0.143050E+01	-0.283100E+00
13.400	0.162310E+01	0.340100E+00	0.246400E+00	0.580000E-01	0.690800E+00	0.140730E+01	-0.263400E+00
13.600	0.160960E+01	0.333900E+00	0.232500E+00	0.392000E-01	0.665100E+00	0.138460E+01	-0.242200E+00
13.800	0.159780E+01	0.325800E+00	0.219400E+00	0.207000E-01	0.642200E+00	0.136270E+01	-0.218400E+00
14.000	0.158760E+01	0.316200E+00	0.207100E+00	0.250000E-02	0.621900E+00	0.134160E+01	-0.190700E+00
14.200	0.157890E+01	0.305300E+00	0.195700E+00	-0.154000E-01	0.604000E+00	0.132140E+01	-0.157800E+00
14.400	0.157150E+01	0.293500E+00	0.185000E+00	-0.329000E-01	0.588400E+00	0.130210E+01	-0.120500E+00
14.600	0.156540E+01	0.281200E+00	0.175000E+00	-0.500000E-01	0.574800E+00	0.128390E+01	-0.817000E-01
15.000	0.155610E+01	0.255400E+00	0.156900E+00	-0.828000E-01	0.552900E+00	0.125080E+01	-0.124000E-01
15.200	0.155290E+01	0.242500E+00	0.148800E+00	-0.983000E-01	0.544300E+00	0.123600E+01	0.162000E-01
15.800	0.154730E+01	0.204700E+00	0.127400E+00	-0.140100E+00	0.526500E+00	0.119830E+01	0.834000E-01
16.400	0.154650E+01	0.170100E+00	0.109800E+00	-0.173200E+00	0.517900E+00	0.117040E+01	0.133300E+00
16.600	0.154690E+01	0.159400E+00	0.104600E+00	-0.181900E+00	0.516700E+00	0.116310E+01	0.147800E+00
16.800	0.154770E+01	0.149200E+00	0.998000E-01	-0.189400E+00	0.516200E+00	0.115680E+01	0.161800E+00
17.000	0.154870E+01	0.139500E+00	0.952000E-01	-0.195500E+00	0.516300E+00	0.115140E+01	0.175900E+00
17.200	0.154990E+01	0.130300E+00	0.909000E-01	-0.200200E+00	0.517000E+00	0.114680E+01	0.191400E+00
17.400	0.155130E+01	0.121500E+00	0.869000E-01	-0.203400E+00	0.518100E+00	0.114310E+01	0.211100E+00
17.600	0.155280E+01	0.113200E+00	0.831000E-01	-0.205100E+00	0.519700E+00	0.114030E+01	0.245400E+00
17.800	0.155440E+01	0.105400E+00	0.796000E-01	-0.205200E+00	0.521700E+00	0.113820E+01	0.377200E+00
18.000	0.155620E+01	0.979000E-01	0.762000E-01	-0.203500E+00	0.524000E+00	0.113690E+01	0.141820E+01
18.200	0.155800E+01	0.909000E-01	0.731000E-01	-0.200100E+00	0.526500E+00	0.113630E+01	0.141980E+01
18.400	0.155980E+01	0.843000E-01	0.702000E-01	-0.194700E+00	0.529300E+00	0.113640E+01	0.142260E+01
18.600	0.156170E+01	0.781000E-01	0.674000E-01	-0.187500E+00	0.532100E+00	0.113730E+01	0.142600E+01
18.800	0.156360E+01	0.722000E-01	0.648000E-01	-0.178200E+00	0.534900E+00	0.113880E+01	0.142940E+01
19.000	0.156550E+01	0.667000E-01	0.623000E-01	-0.166800E+00	0.537600E+00	0.114100E+01	0.143250E+01
19.200	0.156740E+01	0.615000E-01	0.600000E-01	-0.153300E+00	0.540100E+00	0.114380E+01	0.143540E+01
19.600	0.157120E+01	0.520000E-01	0.557000E-01	-0.119500E+00	0.543700E+00	0.115150E+01	0.143980E+01
19.800	0.157310E+01	0.477000E-01	0.538000E-01	-0.994000E-01	0.544500E+00	0.115620E+01	0.144140E+01
20.000	0.157490E+01	0.436000E-01	0.519000E-01	-0.772000E-01	0.544100E+00	0.116150E+01	0.144250E+01
20.200	0.157670E+01	0.398000E-01	0.502000E-01	-0.532000E-01	0.542600E+00	0.116740E+01	0.144320E+01

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3 20.400 0.157840E+01 0.362000E-01 0.485000E-01 -0.276000E-01 0.539500E+00 0.117380E+01 0.144350E+01
4 20.600 0.158010E+01 0.329000E-01 0.469000E-01 -0.800000E-03 0.534800E+00 0.118080E+01 0.144320E+01
5 20.800 0.158170E+01 0.297000E-01 0.454000E-01 0.267000E-01 0.528200E+00 0.118830E+01 0.144250E+01
6 21.000 0.158330E+01 0.267000E-01 0.440000E-01 0.544000E-01 0.519800E+00 0.119640E+01 0.144130E+01
7 21.200 0.158490E+01 0.239000E-01 0.426000E-01 0.818000E-01 0.509500E+00 0.120480E+01 0.143950E+01
8 25.000 0.160480E+01 0.650000E-02 0.253000E-01 0.351200E+00 0.217700E+00 0.143670E+01 0.127810E+01
9 25.200 0.160540E+01 0.730000E-02 0.247000E-01 0.356100E+00 0.206100E+00 0.145210E+01 0.126140E+01
10 25.400 0.160600E+01 0.800000E-02 0.241000E-01 0.360500E+00 0.195100E+00 0.146760E+01 0.124400E+01
11 26.200 0.160820E+01 0.105000E-01 0.219000E-01 0.375000E+00 0.157100E+00 0.153100E+01 0.116550E+01
12 26.600 0.160920E+01 0.114000E-01 0.210000E-01 0.380600E+00 0.141300E+00 0.156250E+01 0.112240E+01
13 26.800 0.160960E+01 0.119000E-01 0.205000E-01 0.383100E+00 0.134100E+00 0.157800E+01 0.110000E+01
14 29.800 0.161460E+01 0.146000E-01 0.148000E-01 0.405200E+00 0.673000E-01 0.175940E+01 0.755500E+00
15 30.600 0.161560E+01 0.147000E-01 0.137000E-01 0.408200E+00 0.582000E-01 0.178800E+01 0.676100E+00
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For Peer Review Only

Table 8: $(4)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	4-1	4-2	4-3	4-4	4-5	4-6	4-7
3.800	0.376500E+00	-0.108820E+01	0.737300E+00	0.619500E+00	-0.472900E+01	-0.167980E+01	-0.581200E+00
4.000	0.149300E+00	-0.861600E+00	0.612600E+00	0.170430E+01	-0.519210E+01	-0.595800E+00	-0.926000E+00
4.200	0.620000E-02	-0.919300E+00	0.631500E+00	0.156930E+01	-0.552830E+01	-0.516000E-01	-0.955200E+00
4.600	-0.356700E+00	-0.125560E+01	0.832800E+00	0.167500E+00	-0.635830E+01	-0.153000E-01	-0.150300E+00
4.800	-0.534300E+00	-0.144770E+01	0.100400E+01	0.722400E+00	-0.665080E+01	0.337800E+00	-0.527900E+00
5.000	-0.682800E+00	-0.161840E+01	0.123590E+01	0.146320E+01	-0.680970E+01	0.545400E+00	-0.105570E+01
5.200	-0.799700E+00	-0.176280E+01	0.157190E+01	0.198230E+01	-0.686900E+01	0.597600E+00	-0.832400E+00
5.400	-0.892600E+00	-0.188290E+01	0.217190E+01	0.218680E+01	-0.684220E+01	0.531100E+00	-0.665800E+00
5.600	-0.969100E+00	-0.198070E+01	0.316160E+01	0.184220E+01	-0.670120E+01	0.385800E+00	-0.546400E+00
5.800	-0.103520E+01	-0.205850E+01	0.307690E+01	0.309170E+01	-0.637120E+01	0.191600E+00	-0.461600E+00
6.000	-0.109480E+01	-0.211820E+01	0.314110E+01	0.414010E+01	-0.577670E+01	0.282000E-01	-0.402800E+00
6.200	-0.115100E+01	-0.216160E+01	0.318330E+01	0.505240E+01	-0.500130E+01	-0.252900E+00	-0.362600E+00
6.400	-0.120550E+01	-0.219040E+01	0.319210E+01	0.565920E+01	-0.428870E+01	-0.460700E+00	-0.336700E+00
6.600	-0.125970E+01	-0.220640E+01	0.316740E+01	0.599690E+01	-0.378380E+01	-0.628200E+00	-0.322700E+00
6.800	-0.131470E+01	-0.221090E+01	0.310940E+01	0.617050E+01	-0.348810E+01	-0.737300E+00	-0.318900E+00
7.000	-0.137090E+01	-0.220540E+01	0.301770E+01	0.625530E+01	-0.335160E+01	-0.800100E+00	-0.324200E+00
7.200	-0.142890E+01	-0.219130E+01	0.289080E+01	0.629400E+01	-0.331260E+01	-0.874100E+00	-0.338100E+00
7.400	-0.148880E+01	-0.216960E+01	0.272720E+01	0.630910E+01	-0.332160E+01	-0.100360E+01	-0.359500E+00
7.600	-0.155060E+01	-0.214160E+01	0.252690E+01	0.631070E+01	-0.335910E+01	-0.116670E+01	-0.387000E+00
7.800	-0.161450E+01	-0.210830E+01	0.229280E+01	0.630020E+01	-0.342860E+01	-0.131790E+01	-0.419200E+00
8.200	-0.174750E+01	-0.202900E+01	0.175880E+01	0.621820E+01	-0.369800E+01	-0.150630E+01	-0.490100E+00
8.400	-0.181610E+01	-0.198460E+01	0.148680E+01	0.612510E+01	-0.390930E+01	-0.154260E+01	-0.524900E+00
8.600	-0.188580E+01	-0.193780E+01	0.123170E+01	0.597990E+01	-0.417660E+01	-0.154740E+01	-0.556900E+00
8.800	-0.195610E+01	-0.188920E+01	0.100460E+01	0.576840E+01	-0.450130E+01	-0.152650E+01	-0.584100E+00
9.000	-0.202660E+01	-0.183880E+01	0.810600E+00	0.547700E+01	-0.489740E+01	-0.148460E+01	-0.604600E+00
9.200	-0.209670E+01	-0.178700E+01	0.650100E+00	0.509710E+01	-0.529570E+01	-0.142570E+01	-0.616400E+00
9.400	-0.216620E+01	-0.173340E+01	0.519800E+00	0.463520E+01	-0.572010E+01	-0.135330E+01	-0.617400E+00
9.600	-0.223430E+01	-0.167790E+01	0.415400E+00	0.412020E+01	-0.611300E+01	-0.126990E+01	-0.605500E+00
9.800	-0.230070E+01	-0.161970E+01	0.332000E+00	0.359880E+01	-0.644090E+01	-0.117800E+01	-0.578800E+00
10.000	-0.236450E+01	-0.155780E+01	0.265400E+00	0.311590E+01	-0.668990E+01	-0.107910E+01	-0.535400E+00
10.200	-0.242470E+01	-0.149030E+01	0.212600E+00	0.269840E+01	-0.686380E+01	-0.974300E+00	-0.474500E+00
10.400	-0.247890E+01	-0.141420E+01	0.171300E+00	0.235170E+01	-0.697300E+01	-0.863200E+00	-0.397400E+00
10.600	-0.252170E+01	-0.132290E+01	0.141200E+00	0.206580E+01	-0.702140E+01	-0.742700E+00	-0.308200E+00
10.800	-0.253450E+01	-0.119860E+01	0.124700E+00	0.181540E+01	-0.698050E+01	-0.602000E+00	-0.213700E+00
11.000	-0.243490E+01	-0.978800E+00	0.132000E+00	0.153180E+01	-0.666470E+01	-0.403800E+00	-0.125100E+00
11.200	-0.187850E+01	-0.487400E+00	0.177500E+00	0.100960E+01	-0.522540E+01	-0.688000E-01	-0.731000E-01
11.400	-0.103940E+01	-0.249000E-01	0.207600E+00	0.448000E+00	-0.307890E+01	0.207300E+00	0.969000E-01
11.600	-0.605800E+00	0.245000E+00	0.210500E+00	0.210300E+00	-0.197780E+01	0.301400E+00	0.149000E+00
11.800	-0.391300E+00	0.340100E+00	0.208000E+00	0.120400E+00	-0.144480E+01	0.331400E+00	0.200200E+00
12.000	-0.264800E+00	0.387800E+00	0.204700E+00	0.864000E-01	-0.114000E+01	0.339700E+00	0.245500E+00
12.200	-0.180300E+00	0.413100E+00	0.201400E+00	0.770000E-01	-0.942000E+00	0.338700E+00	0.284000E+00
12.400	-0.119000E+00	0.425900E+00	0.198100E+00	0.797000E-01	-0.801600E+00	0.332800E+00	0.315700E+00
12.600	-0.723000E-01	0.430900E+00	0.194800E+00	0.887000E-01	-0.695700E+00	0.324200E+00	0.340500E+00
12.800	-0.358000E-01	0.430600E+00	0.191300E+00	0.100900E+00	-0.612400E+00	0.313800E+00	0.358100E+00
13.000	-0.670000E-02	0.426600E+00	0.187600E+00	0.114500E+00	-0.544700E+00	0.302400E+00	0.368100E+00
13.200	0.166000E-01	0.419900E+00	0.183600E+00	0.128600E+00	-0.488400E+00	0.290500E+00	0.369400E+00
13.400	0.353000E-01	0.411400E+00	0.179200E+00	0.142300E+00	-0.440800E+00	0.278500E+00	0.360600E+00
13.600	0.502000E-01	0.401500E+00	0.174300E+00	0.155200E+00	-0.400000E+00	0.266800E+00	0.339500E+00
13.800	0.620000E-01	0.390600E+00	0.169000E+00	0.167200E+00	-0.364600E+00	0.255500E+00	0.303300E+00
14.000	0.711000E-01	0.379300E+00	0.163400E+00	0.178000E+00	-0.333800E+00	0.244800E+00	0.250200E+00
14.200	0.780000E-01	0.367500E+00	0.157400E+00	0.187500E+00	-0.306700E+00	0.234800E+00	0.181500E+00
14.400	0.831000E-01	0.355700E+00	0.151100E+00	0.195700E+00	-0.282800E+00	0.225400E+00	0.105300E+00
14.600	0.867000E-01	0.343900E+00	0.144700E+00	0.202500E+00	-0.261500E+00	0.216800E+00	0.339000E-01
15.000	0.903000E-01	0.321000E+00	0.131800E+00	0.212600E+00	-0.225400E+00	0.201400E+00	-0.650000E-01
15.200	0.907000E-01	0.309900E+00	0.125400E+00	0.215900E+00	-0.209900E+00	0.194600E+00	-0.924000E-01
15.800	0.884000E-01	0.279100E+00	0.107300E+00	0.220300E+00	-0.171200E+00	0.176700E+00	-0.123400E+00
16.400	0.831000E-01	0.251800E+00	0.917000E-01	0.218200E+00	-0.140300E+00	0.161700E+00	-0.120900E+00
16.600	0.810000E-01	0.243500E+00	0.871000E-01	0.216500E+00	-0.131300E+00	0.157100E+00	-0.117600E+00
16.800	0.789000E-01	0.235500E+00	0.827000E-01	0.214500E+00	-0.122600E+00	0.152600E+00	-0.113800E+00
17.000	0.767000E-01	0.228000E+00	0.787000E-01	0.212100E+00	-0.114300E+00	0.148300E+00	-0.109800E+00
17.200	0.746000E-01	0.220700E+00	0.749000E-01	0.209500E+00	-0.106300E+00	0.144100E+00	-0.105800E+00
17.400	0.724000E-01	0.213800E+00	0.714000E-01	0.206700E+00	-0.986000E-01	0.139900E+00	-0.101800E+00
17.600	0.703000E-01	0.207200E+00	0.681000E-01	0.203700E+00	-0.910000E-01	0.135800E+00	-0.979000E-01
17.800	0.683000E-01	0.200900E+00	0.650000E-01	0.200600E+00	-0.835000E-01	0.131700E+00	-0.930000E-01
18.000	0.663000E-01	0.194800E+00	0.622000E-01	0.197500E+00	-0.762000E-01	0.127700E+00	0.800000E-02
18.200	0.644000E-01	0.189000E+00	0.595000E-01	0.194200E+00	-0.690000E-01	0.123700E+00	0.130000E-02
18.400	0.626000E-01	0.183500E+00	0.570000E-01	0.190800E+00	-0.617000E-01	0.119700E+00	0.260000E-02
18.600	0.609000E-01	0.178200E+00	0.547000E-01	0.187400E+00	-0.545000E-01	0.115800E+00	0.290000E-02
18.800	0.592000E-01	0.173100E+00	0.525000E-01	0.184000E+00	-0.473000E-01	0.111900E+00	0.280000E-02
19.000	0.576000E-01	0.168200E+00	0.504000E-01	0.180400E+00	-0.400000E-01	0.107900E+00	0.270000E-02
19.200	0.561000E-01	0.163500E+00	0.485000E-01	0.176800E+00	-0.327000E-01	0.104100E+00	0.260000E-02
19.600	0.532000E-01	0.154600E+00	0.449000E-01	0.169200E+00	-0.179000E-01	0.964000E-01	0.240000E-02
19.800	0.519000E-01	0.150500E+00	0.433000E-01	0.165200E+00	-0.104000E-01	0.926000E-01	0.240000E-02
20.000	0.506000E-01	0.146400E+00	0.418000E-01	0.161000E+00	-0.300000E-02	0.888000E-01	0.250000E-02
20.200	0.493000E-01	0.142500E+00	0.403000E-01	0.156600E+00	0.450000E-02	0.851000E-01	0.270000E-02

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3 20.400 0.481000E-01 0.138800E+00 0.390000E-01 0.152000E+00 0.117000E-01 0.814000E-01 0.290000E-02
4 20.600 0.470000E-01 0.135200E+00 0.376000E-01 0.147200E+00 0.188000E-01 0.777000E-01 0.320000E-02
5 20.800 0.459000E-01 0.131700E+00 0.364000E-01 0.142100E+00 0.255000E-01 0.742000E-01 0.350000E-02
6 21.000 0.448000E-01 0.128300E+00 0.352000E-01 0.136900E+00 0.319000E-01 0.707000E-01 0.380000E-02
7 21.200 0.438000E-01 0.125000E+00 0.341000E-01 0.131500E+00 0.377000E-01 0.672000E-01 0.410000E-02
8 25.000 0.281000E-01 0.790000E-01 0.192000E-01 0.554000E-01 0.607000E-01 0.225000E-01 0.105000E-01
9 25.200 0.275000E-01 0.772000E-01 0.186000E-01 0.532000E-01 0.597000E-01 0.214000E-01 0.106000E-01
10 25.400 0.268000E-01 0.755000E-01 0.181000E-01 0.512000E-01 0.587000E-01 0.203000E-01 0.108000E-01
11 26.200 0.243000E-01 0.691000E-01 0.162000E-01 0.442000E-01 0.544000E-01 0.168000E-01 0.108000E-01
12 26.600 0.231000E-01 0.661000E-01 0.153000E-01 0.413000E-01 0.523000E-01 0.154000E-01 0.110000E-01
13 26.800 0.226000E-01 0.647000E-01 0.149000E-01 0.399000E-01 0.512000E-01 0.148000E-01 0.111000E-01
14 29.800 0.155000E-01 0.475000E-01 0.990000E-02 0.261000E-01 0.373000E-01 0.960000E-02 0.124000E-01
15 30.000 0.151000E-01 0.466000E-01 0.210000E-02 0.254000E-01 0.366000E-01 0.940000E-02 0.126000E-01
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NaRb

NaCs

The following tables display the transition dipole moments between the four lowest Σ^+ states with the lowest seven Π states of **NaCs**, for singlet (Tables 1 to 4) and triplet (Tables 5 to 8) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 2.54158059 Debye. All states are identified with their number with increasing energy.

Table 1: (1) Σ^+ -(1-7) Π transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.800	0.478900E+00	-0.324680E+01	0.328000E-01	-0.299000E+00	-0.474000E-01	0.342300E+00	0.376700E+00
4.000	0.662800E+00	-0.319240E+01	0.153700E+00	-0.265300E+00	-0.221300E+00	0.267000E+00	0.307100E+00
4.200	0.887200E+00	-0.310670E+01	0.331800E+00	-0.222700E+00	-0.340000E+00	0.892000E-01	0.258800E+00
4.600	0.191990E+01	-0.251690E+01	0.597900E+00	-0.992000E-01	-0.360800E+00	0.580000E-01	0.189000E+00
4.800	0.288920E+01	-0.122760E+01	0.678000E+00	0.140000E-01	-0.357700E+00	-0.113800E+00	0.185900E+00
5.000	0.310960E+01	-0.252400E+00	0.726300E+00	0.878000E-01	-0.345500E+00	-0.108100E+00	0.174200E+00
5.200	0.310330E+01	-0.165900E+00	0.746300E+00	0.202400E+00	-0.321200E+00	-0.886000E-01	0.141600E+00
5.400	0.307630E+01	-0.399300E+00	0.742100E+00	0.320800E+00	-0.281600E+00	-0.654000E-01	0.108000E+00
5.600	0.305100E+01	-0.560300E+00	0.720300E+00	0.431400E+00	-0.225100E+00	-0.411000E-01	0.716000E-01
5.800	0.302970E+01	-0.685800E+00	0.689300E+00	0.524100E+00	-0.154300E+00	-0.175000E-01	0.325000E-01
6.000	0.301200E+01	-0.791000E+00	0.656500E+00	0.594100E+00	-0.769000E-01	0.340000E-02	-0.800000E-02
6.200	0.299690E+01	-0.883100E+00	0.627400E+00	0.642800E+00	-0.230000E-02	0.206000E-01	-0.486000E-01
6.400	0.298370E+01	-0.966500E+00	0.605300E+00	0.675300E+00	0.627000E-01	0.338000E-01	-0.872000E-01
6.600	0.297160E+01	-0.104380E+01	0.591800E+00	0.697600E+00	0.116000E+00	0.431000E-01	-0.122300E+00
6.800	0.295990E+01	-0.111690E+01	0.587800E+00	0.713900E+00	0.158900E+00	0.493000E-01	-0.152500E+00
7.000	0.294810E+01	-0.118690E+01	0.593500E+00	0.726800E+00	0.193300E+00	0.532000E-01	-0.177500E+00
7.200	0.293560E+01	-0.125440E+01	0.609300E+00	0.737700E+00	0.221400E+00	0.554000E-01	-0.197400E+00
7.400	0.292230E+01	-0.131930E+01	0.635100E+00	0.747500E+00	0.244800E+00	0.567000E-01	-0.212300E+00
7.600	0.290780E+01	-0.138110E+01	0.671400E+00	0.756500E+00	0.264600E+00	0.573000E-01	-0.222700E+00
7.800	0.289230E+01	-0.143870E+01	0.718900E+00	0.764800E+00	0.281400E+00	0.576000E-01	-0.228800E+00
8.200	0.285880E+01	-0.153410E+01	0.850900E+00	0.779800E+00	0.307300E+00	0.576000E-01	-0.229800E+00
8.400	0.284150E+01	-0.156660E+01	0.938200E+00	0.786600E+00	0.316200E+00	0.574000E-01	-0.225200E+00
8.600	0.282440E+01	-0.158400E+01	0.104190E+01	0.792900E+00	0.322300E+00	0.571000E-01	-0.217800E+00
8.800	0.280820E+01	-0.158190E+01	0.116320E+01	0.798700E+00	0.325100E+00	0.566000E-01	-0.207700E+00
9.000	0.279320E+01	-0.155470E+01	0.130230E+01	0.803900E+00	0.324400E+00	0.559000E-01	-0.195300E+00
9.200	0.277980E+01	-0.149750E+01	0.145690E+01	0.808400E+00	0.319800E+00	0.548000E-01	-0.181200E+00
9.400	0.276850E+01	-0.140740E+01	0.162120E+01	0.811900E+00	0.311100E+00	0.534000E-01	-0.165700E+00
9.600	0.275930E+01	-0.128620E+01	0.178580E+01	0.814100E+00	0.298500E+00	0.517000E-01	-0.149300E+00
9.800	0.275240E+01	-0.114180E+01	0.193980E+01	0.814500E+00	0.282100E+00	0.496000E-01	-0.132400E+00
10.000	0.274780E+01	-0.986100E+00	0.207500E+01	0.812700E+00	0.262600E+00	0.473000E-01	-0.115600E+00
10.200	0.274520E+01	-0.831200E+00	0.218780E+01	0.808300E+00	0.240700E+00	0.449000E-01	-0.992000E-01
10.400	0.274460E+01	-0.685600E+00	0.227910E+01	0.800700E+00	0.217300E+00	0.424000E-01	-0.835000E-01
10.600	0.274580E+01	-0.553600E+00	0.235210E+01	0.789900E+00	0.193600E+00	0.401000E-01	-0.688000E-01
10.800	0.274830E+01	-0.436500E+00	0.241060E+01	0.775700E+00	0.170600E+00	0.379000E-01	-0.552000E-01
11.000	0.275210E+01	-0.333900E+00	0.245770E+01	0.758400E+00	0.148900E+00	0.360000E-01	-0.427000E-01
11.200	0.275690E+01	-0.244300E+00	0.249610E+01	0.738100E+00	0.129100E+00	0.344000E-01	-0.313000E-01
11.400	0.276240E+01	-0.166500E+00	0.252770E+01	0.715400E+00	0.111700E+00	0.330000E-01	-0.207000E-01
11.600	0.276850E+01	-0.989000E-01	0.255380E+01	0.690700E+00	0.965000E-01	0.320000E-01	-0.109000E-01
11.800	0.277510E+01	-0.405000E-01	0.257560E+01	0.664700E+00	0.837000E-01	0.312000E-01	-0.160000E-02
12.000	0.278190E+01	0.980000E-02	0.259370E+01	0.637800E+00	0.729000E-01	0.305000E-01	0.730000E-02
12.200	0.278910E+01	0.531000E-01	0.260870E+01	0.610700E+00	0.640000E-01	0.299000E-01	0.160000E-01
12.400	0.279640E+01	0.899000E-01	0.262120E+01	0.583600E+00	0.567000E-01	0.293000E-01	0.245000E-01
12.600	0.280380E+01	0.121100E+00	0.263140E+01	0.557200E+00	0.506000E-01	0.287000E-01	0.325000E-01
12.800	0.281130E+01	0.147200E+00	0.263970E+01	0.531700E+00	0.454000E-01	0.280000E-01	0.394000E-01
13.000	0.281890E+01	0.168900E+00	0.264640E+01	0.507300E+00	0.410000E-01	0.271000E-01	0.447000E-01
13.200	0.282650E+01	0.186500E+00	0.265150E+01	0.484300E+00	0.372000E-01	0.260000E-01	0.481000E-01
13.400	0.283410E+01	0.200500E+00	0.265540E+01	0.462800E+00	0.337000E-01	0.247000E-01	0.499000E-01
13.600	0.284170E+01	0.211500E+00	0.265830E+01	0.442800E+00	0.304000E-01	0.232000E-01	0.503000E-01
13.800	0.284930E+01	0.219600E+00	0.266020E+01	0.424400E+00	0.273000E-01	0.214000E-01	0.499000E-01
14.000	0.285680E+01	0.225300E+00	0.266120E+01	0.407600E+00	0.242000E-01	0.194000E-01	0.488000E-01
14.200	0.286430E+01	0.228900E+00	0.266160E+01	0.392200E+00	0.213000E-01	0.173000E-01	0.472000E-01
14.400	0.287170E+01	0.230600E+00	0.266140E+01	0.378300E+00	0.184000E-01	0.150000E-01	0.454000E-01
14.600	0.287900E+01	0.230800E+00	0.266070E+01	0.365700E+00	0.156000E-01	0.126000E-01	0.432000E-01
15.000	0.289330E+01	0.227200E+00	0.265810E+01	0.344200E+00	0.103000E-01	0.790000E-02	0.386000E-01
15.200	0.290020E+01	0.223800E+00	0.265630E+01	0.335000E+00	0.790000E-02	0.560000E-02	0.363000E-01
15.800	0.292030E+01	0.209400E+00	0.264950E+01	0.312600E+00	0.150000E-02	0.600000E-03	0.292000E-01
16.400	0.293900E+01	0.191100E+00	0.264150E+01	0.296400E+00	0.320000E-02	0.540000E-02	0.226000E-01
16.600	0.294490E+01	0.184500E+00	0.263860E+01	0.292000E+00	0.450000E-02	0.670000E-02	0.206000E-01
16.800	0.295060E+01	0.177900E+00	0.263570E+01	0.288100E+00	0.550000E-02	0.780000E-02	0.187000E-01
17.000	0.295620E+01	0.171200E+00	0.263280E+01	0.284600E+00	0.640000E-02	0.880000E-02	0.170000E-01
17.200	0.296160E+01	0.164500E+00	0.262990E+01	0.281300E+00	0.720000E-02	0.960000E-02	0.154000E-01
17.400	0.296690E+01	0.157800E+00	0.262700E+01	0.278400E+00	0.780000E-02	0.103000E-01	0.139000E-01
17.600	0.297200E+01	0.151200E+00	0.262410E+01	0.275800E+00	0.830000E-02	0.109000E-01	0.126000E-01
17.800	0.297690E+01	0.144700E+00	0.262120E+01	0.273400E+00	0.870000E-02	0.114000E-01	0.114000E-01
18.000	0.298170E+01	0.138400E+00	0.261830E+01	0.271300E+00	0.890000E-02	0.118000E-01	0.103000E-01
18.200	0.298630E+01	0.132200E+00	0.261550E+01	0.269300E+00	0.910000E-02	0.121000E-01	0.940000E-02
18.400	0.299080E+01	0.126100E+00	0.261270E+01	0.267500E+00	0.920000E-02	0.124000E-01	0.850000E-02
18.600	0.299520E+01	0.120300E+00	0.260990E+01	0.265900E+00	0.920000E-02	0.126000E-01	0.780000E-02

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3	18.800	0.299940E+01	0.114600E+00	0.260720E+01	0.264400E+00	0.910000E-02	0.127000E-01	0.710000E-02
4	19.000	0.300350E+01	0.109100E+00	0.260460E+01	0.263100E+00	0.890000E-02	0.128000E-01	0.660000E-02
5	19.200	0.300740E+01	0.103700E+00	0.260200E+01	0.261900E+00	0.870000E-02	0.128000E-01	0.610000E-02
6	19.600	0.301490E+01	0.937000E-01	0.259690E+01	0.259700E+00	0.820000E-02	0.128000E-01	0.530000E-02
7	19.800	0.301850E+01	0.889000E-01	0.259450E+01	0.258700E+00	0.790000E-02	0.127000E-01	0.500000E-02
8	20.000	0.302190E+01	0.844000E-01	0.259210E+01	0.257900E+00	0.750000E-02	0.126000E-01	0.480000E-02
9	20.200	0.302530E+01	0.800000E-01	0.258980E+01	0.257100E+00	0.710000E-02	0.124000E-01	0.460000E-02
10	20.400	0.302850E+01	0.758000E-01	0.258760E+01	0.256300E+00	0.670000E-02	0.123000E-01	0.440000E-02
11	20.600	0.303160E+01	0.718000E-01	0.258540E+01	0.255700E+00	0.630000E-02	0.121000E-01	0.430000E-02
12	20.800	0.303470E+01	0.680000E-01	0.258320E+01	0.255000E+00	0.580000E-02	0.119000E-01	0.420000E-02
13	21.000	0.303760E+01	0.643000E-01	0.258110E+01	0.254500E+00	0.540000E-02	0.117000E-01	0.410000E-02
14	21.200	0.304040E+01	0.608000E-01	0.257910E+01	0.253900E+00	0.490000E-02	0.115000E-01	0.400000E-02
15	25.000	0.307970E+01	0.178000E-01	0.254990E+01	0.248500E+00	0.250000E-02	0.640000E-02	0.450000E-02
16	25.200	0.308120E+01	0.164000E-01	0.254860E+01	0.248400E+00	0.270000E-02	0.620000E-02	0.450000E-02
17	25.400	0.308270E+01	0.151000E-01	0.254680E+01	0.248300E+00	0.300000E-02	0.590000E-02	0.450000E-02
18	25.600	0.308410E+01	0.139000E-01	0.248100E+00	0.320000E-02	0.570000E-02	0.440000E-02	0.315000E-01
19	26.200	0.308800E+01	0.105000E-01	0.254350E+01	0.247700E+00	0.390000E-02	0.510000E-02	0.420000E-02
20	26.600	0.309040E+01	0.860000E-02	0.254170E+01	0.247500E+00	0.420000E-02	0.470000E-02	0.390000E-02
21	26.800	0.309160E+01	0.770000E-02	0.254070E+01	0.247400E+00	0.440000E-02	0.450000E-02	0.380000E-02
22	29.800	0.310540E+01	0.190000E-02	0.252960E+01	0.245900E+00	0.590000E-02	0.290000E-02	0.700000E-03
23	30.600	0.310830E+01	0.350000E-02	0.252740E+01	0.245600E+00	0.620000E-02	0.270000E-02	0.200000E-03
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Table 2: $(2)^1\Sigma^+ - (1-7)^1\Pi$ transitions

R	2-1	2-2	2-3	2-4	2-5	2-6	2-7
3.800	0.811800E+00	0.693100E+00	-0.119850E+01	0.926400E+00	0.175520E+01	0.805000E+00	0.379100E+00
4.000	0.872900E+00	0.818900E+00	-0.115440E+01	0.112520E+01	0.189200E+01	0.206000E-01	0.299200E+00
4.200	0.918700E+00	0.964100E+00	-0.112150E+01	0.126920E+01	0.164680E+01	-0.854400E+00	0.252500E+00
4.600	0.665100E+00	0.149150E+01	-0.101910E+01	0.150040E+01	0.150040E+01	-0.802600E+00	0.340500E+00
4.800	0.147600E+00	0.177930E+01	-0.919700E+00	0.157770E+01	0.148500E+01	-0.572900E+00	-0.627000E-01
5.000	0.723000E+00	0.178420E+01	-0.783700E+00	0.161450E+01	0.147990E+01	-0.558400E+00	-0.538000E+00
5.200	0.975900E+00	0.180120E+01	-0.623800E+00	0.160080E+01	0.148620E+01	-0.614500E+00	-0.691800E+00
5.400	0.111960E+01	0.184270E+01	-0.462000E+00	0.153010E+01	0.150490E+01	-0.676800E+00	-0.792100E+00
5.600	0.121550E+01	0.189290E+01	-0.321500E+00	0.140480E+01	0.153050E+01	-0.729200E+00	-0.882900E+00
5.800	0.128550E+01	0.194330E+01	-0.216900E+00	0.124090E+01	0.155060E+01	-0.766900E+00	-0.969900E+00
6.000	0.133970E+01	0.198910E+01	-0.151700E+00	0.106520E+01	0.155230E+01	-0.791200E+00	-0.105380E+01
6.200	0.138370E+01	0.202770E+01	-0.121200E+00	0.903700E+00	0.153100E+01	-0.802700E+00	-0.112740E+01
6.400	0.142070E+01	0.205750E+01	-0.117800E+00	0.771100E+00	0.149230E+01	-0.805400E+00	-0.118870E+01
6.600	0.145270E+01	0.207830E+01	-0.133900E+00	0.669700E+00	0.144630E+01	-0.803300E+00	-0.123610E+01
6.800	0.148080E+01	0.209030E+01	-0.163100E+00	0.595100E+00	0.140140E+01	-0.800300E+00	-0.127380E+01
7.000	0.150560E+01	0.209430E+01	-0.200400E+00	0.541500E+00	0.136300E+01	-0.797900E+00	-0.130280E+01
7.200	0.152710E+01	0.209150E+01	-0.241800E+00	0.503600E+00	0.133360E+01	-0.797000E+00	-0.132610E+01
7.400	0.154520E+01	0.208330E+01	-0.284400E+00	0.477600E+00	0.131390E+01	-0.798000E+00	-0.134540E+01
7.600	0.155940E+01	0.207110E+01	-0.325300E+00	0.461100E+00	0.130370E+01	-0.800800E+00	-0.136230E+01
7.800	0.156930E+01	0.205680E+01	-0.362200E+00	0.452300E+00	0.130250E+01	-0.805100E+00	-0.137710E+01
8.200	0.157370E+01	0.202890E+01	-0.413600E+00	0.455300E+00	0.132330E+01	-0.817900E+00	-0.140110E+01
8.400	0.156720E+01	0.201880E+01	-0.422500E+00	0.466700E+00	0.134340E+01	-0.825800E+00	-0.140970E+01
8.600	0.155430E+01	0.201350E+01	-0.416000E+00	0.484900E+00	0.136840E+01	-0.834400E+00	-0.141490E+01
8.800	0.153490E+01	0.201380E+01	-0.390300E+00	0.510300E+00	0.139740E+01	-0.843900E+00	-0.141700E+01
9.000	0.150890E+01	0.201960E+01	-0.342400E+00	0.543300E+00	0.142890E+01	-0.854100E+00	-0.141560E+01
9.200	0.147670E+01	0.202950E+01	-0.270500E+00	0.584100E+00	0.146170E+01	-0.864600E+00	-0.141040E+01
9.400	0.143840E+01	0.204060E+01	-0.175800E+00	0.632700E+00	0.149450E+01	-0.875600E+00	-0.140270E+01
9.600	0.139470E+01	0.204900E+01	-0.642000E-01	0.688800E+00	0.152580E+01	-0.886900E+00	-0.139140E+01
9.800	0.134620E+01	0.205200E+01	-0.544000E-01	0.751600E+00	0.155450E+01	-0.898300E+00	-0.137800E+01
10.000	0.129370E+01	0.204880E+01	0.169100E+00	0.819900E+00	0.157980E+01	-0.910000E+00	-0.136300E+01
10.200	0.123800E+01	0.204070E+01	0.271400E+00	0.891700E+00	0.160110E+01	-0.921800E+00	-0.134760E+01
10.400	0.117980E+01	0.203010E+01	0.357100E+00	0.965100E+00	0.161870E+01	-0.933800E+00	-0.133240E+01
10.600	0.112010E+01	0.201870E+01	0.425600E+00	0.103760E+01	0.163320E+01	-0.946300E+00	-0.131820E+01
10.800	0.105960E+01	0.200780E+01	0.478200E+00	0.110720E+01	0.164540E+01	-0.959200E+00	-0.130550E+01
11.000	0.999100E+00	0.199800E+01	0.517200E+00	0.117200E+01	0.165650E+01	-0.972800E+00	-0.129460E+01
11.200	0.939100E+00	0.198960E+01	0.544500E+00	0.123020E+01	0.166780E+01	-0.987300E+00	-0.128570E+01
11.400	0.880200E+00	0.198280E+01	0.562200E+00	0.128090E+01	0.168010E+01	-0.100280E+01	-0.127830E+01
11.600	0.823000E+00	0.197750E+01	0.571900E+00	0.132320E+01	0.169440E+01	-0.101950E+01	-0.127170E+01
11.800	0.767800E+00	0.197370E+01	0.575000E+00	0.135670E+01	0.171090E+01	-0.103750E+01	-0.126430E+01
12.000	0.715000E+00	0.197150E+01	0.572600E+00	0.138120E+01	0.172990E+01	-0.105680E+01	-0.125340E+01
12.200	0.664700E+00	0.197090E+01	0.565900E+00	0.139650E+01	0.175140E+01	-0.107720E+01	-0.123460E+01
12.400	0.617000E+00	0.197210E+01	0.555600E+00	0.140310E+01	0.177490E+01	-0.109880E+01	-0.120220E+01
12.600	0.572100E+00	0.197500E+01	0.542700E+00	0.140110E+01	0.179990E+01	-0.112100E+01	-0.114990E+01
12.800	0.530000E+00	0.197980E+01	0.527600E+00	0.139130E+01	0.182570E+01	-0.114360E+01	-0.107430E+01
13.000	0.490600E+00	0.198660E+01	0.511200E+00	0.137410E+01	0.185160E+01	-0.116590E+01	-0.978500E+00
13.200	0.453800E+00	0.199530E+01	0.493700E+00	0.135060E+01	0.187670E+01	-0.118720E+01	-0.871700E+00
13.400	0.419700E+00	0.200610E+01	0.475600E+00	0.132160E+01	0.190040E+01	-0.120680E+01	-0.763100E+00
13.600	0.388000E+00	0.201900E+01	0.457300E+00	0.128800E+01	0.192200E+01	-0.122370E+01	-0.658600E+00
13.800	0.358600E+00	0.203390E+01	0.439000E+00	0.125090E+01	0.194100E+01	-0.123700E+01	-0.560900E+00
14.000	0.331500E+00	0.205100E+01	0.421000E+00	0.121100E+01	0.195720E+01	-0.124580E+01	-0.470300E+00
14.200	0.306400E+00	0.207020E+01	0.403300E+00	0.116910E+01	0.197030E+01	-0.124930E+01	-0.386500E+00
14.400	0.283200E+00	0.209140E+01	0.386200E+00	0.112590E+01	0.198040E+01	-0.124670E+01	-0.309200E+00
14.600	0.261800E+00	0.211460E+01	0.369600E+00	0.108190E+01	0.198740E+01	-0.123740E+01	-0.239000E+00
15.000	0.223800E+00	0.216620E+01	0.338500E+00	0.992900E+00	0.199320E+01	-0.119800E+01	-0.118000E+00
15.200	0.206900E+00	0.219440E+01	0.323900E+00	0.948300E+00	0.199220E+01	-0.116800E+01	-0.678000E-01
15.800	0.163700E+00	0.228510E+01	0.284300E+00	0.816000E+00	0.197630E+01	-0.104110E+01	-0.347000E-01
16.400	0.129400E+00	0.237870E+01	0.250300E+00	0.687700E+00	0.194450E+01	-0.873900E+00	-0.638000E-01
16.600	0.119600E+00	0.240880E+01	0.240000E+00	0.646200E+00	0.193110E+01	-0.813300E+00	-0.586000E-01
16.800	0.110500E+00	0.243800E+01	0.230200E+00	0.605600E+00	0.191670E+01	-0.751700E+00	-0.466000E-01
17.000	0.102200E+00	0.246580E+01	0.220900E+00	0.566300E+00	0.190140E+01	-0.690200E+00	-0.297000E-01
17.200	0.945000E-01	0.249220E+01	0.212000E+00	0.528100E+00	0.188550E+01	-0.629100E+00	-0.800000E-02
17.400	0.875000E-01	0.251690E+01	0.203500E+00	0.491400E+00	0.186920E+01	-0.569400E+00	0.176000E-01
17.600	0.810000E-01	0.253980E+01	0.195400E+00	0.456100E+00	0.185280E+01	-0.511500E+00	0.459000E-01
17.800	0.750000E-01	0.256100E+01	0.187600E+00	0.422600E+00	0.183640E+01	-0.456000E+00	0.765000E-01
18.000	0.696000E-01	0.258040E+01	0.180200E+00	0.390700E+00	0.182020E+01	-0.403200E+00	0.108600E+00
18.200	0.647000E-01	0.259810E+01	0.173100E+00	0.360600E+00	0.180450E+01	-0.353300E+00	0.141600E+00
18.400	0.602000E-01	0.261410E+01	0.166300E+00	0.332200E+00	0.178930E+01	-0.306400E+00	0.174400E+00
18.600	0.561000E-01	0.262860E+01	0.159900E+00	0.305700E+00	0.177470E+01	-0.262600E+00	0.207600E+00
18.800	0.524000E-01	0.264170E+01	0.153700E+00	0.280800E+00	0.176100E+01	-0.222000E+00	0.240400E+00
19.000	0.490000E-01	0.265350E+01	0.147700E+00	0.257600E+00	0.174810E+01	-0.184500E+00	0.272500E+00
19.200	0.459000E-01	0.266420E+01	0.142100E+00	0.236000E+00	0.173610E+01	-0.150000E+00	0.303300E+00
19.600	0.406000E-01	0.268240E+01	0.131500E+00	0.197300E+00	0.171480E+01	-0.897000E-01	0.362900E+00
19.800	0.382000E-01	0.269030E+01	0.126600E+00	0.180000E+00	0.170550E+01	-0.635000E-01	0.391000E+00
20.000	0.361000E-01	0.269740E+01	0.121900E+00	0.163900E+00	0.169710E+01	-0.397000E-01	0.418100E+00
20.200	0.341000E-01	0.270380E+01	0.117400E+00	0.149000E+00	0.168950E+01	-0.183000E-01	0.444000E+00
20.400	0.323000E-01	0.270970E+01	0.113000E+00	0.135200E+00	0.168270E+01	-0.110000E-02	0.468800E+00
20.600	0.306000E-01	0.271510E+01	0.108900E+00	0.122300E+00	0.167660E+01	0.185000E-01	0.492700E+00

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3	20.800	0.290000E-01	0.272000E+01	0.105000E+00	0.110400E+00	0.167130E+01	0.341000E-01	0.515600E+00
4	21.000	0.275000E-01	0.272450E+01	0.101200E+00	0.993000E-01	0.166660E+01	0.480000E-01	0.537500E+00
5	21.200	0.261000E-01	0.272870E+01	0.976000E-01	0.889000E-01	0.166250E+01	0.604000E-01	0.558500E+00
6	25.000	0.910000E-02	0.277130E+01	0.516000E-01	0.155000E-01	0.164680E+01	0.137400E+00	0.849000E+00
7	25.200	0.860000E-02	0.277250E+01	0.501000E-01	0.179000E-01	0.164740E+01	0.137400E+00	0.860300E+00
8	25.400	0.800000E-02	0.277360E+01	0.485000E-01	0.200000E-01	0.164800E+01	0.137200E+00	0.871400E+00
9	26.200	0.630000E-02	0.277760E+01	0.431000E-01	0.267000E-01	0.165040E+01	0.135200E+00	0.913000E+00
10	26.600	0.550000E-02	0.277940E+01	0.406000E-01	0.290000E-01	0.165170E+01	0.133300E+00	0.932000E+00
11	26.800	0.520000E-02	0.278020E+01	0.394000E-01	0.300000E-01	0.165230E+01	0.132200E+00	0.941100E+00
12	29.800	0.200000E-02	0.278980E+01	0.261000E-01	0.326000E-01	0.166020E+01	0.109100E+00	0.105150E+01
13	30.600	0.150000E-02	0.279180E+01	0.235000E-01	0.312000E-01	0.166140E+01	0.101800E+00	0.107410E+01
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For Peer Review Only

Table 3: $(3)^1\Sigma^+ - (1-7)^1\Pi$ transitions

R	3-1	3-2	3-3	3-4	3-5	3-6	3-7
3.800	0.363000E-01	-0.860300E+00	0.560500E+00	-0.219100E+00	0.770000E-02	0.943400E+00	0.116270E+01
4.000	0.558000E-01	-0.965100E+00	0.443300E+00	-0.139600E+00	0.292600E+00	0.947600E+00	0.157100E+01
4.200	0.110200E+00	-0.103780E+01	0.373500E+00	-0.954000E-01	0.618700E+00	0.735900E+00	0.175680E+01
4.600	0.539300E+00	-0.937700E+00	0.389200E+00	0.175200E+00	0.429200E+00	0.111500E+00	0.202160E+01
4.800	0.956800E+00	-0.477000E+00	0.448700E+00	0.292300E+00	0.282200E+00	0.111420E+01	0.131040E+01
5.000	0.106080E+01	0.620000E-01	0.512400E+00	0.431000E+00	0.145600E+00	0.143530E+01	0.301100E+00
5.200	0.105770E+01	0.166600E+00	0.567100E+00	0.569200E+00	0.235000E-01	0.155800E+01	0.841000E-01
5.400	0.104170E+01	0.321300E+00	0.612600E+00	0.691200E+00	-0.919000E-01	0.162850E+01	0.210000E-02
5.600	0.102330E+01	0.438400E+00	0.656800E+00	0.785800E+00	-0.208900E+00	0.167850E+01	-0.482000E-01
5.800	0.100170E+01	0.530300E+00	0.707700E+00	0.845500E+00	-0.327900E+00	0.171670E+01	-0.758000E-01
6.000	0.975600E+00	0.602900E+00	0.768200E+00	0.869900E+00	-0.439500E+00	0.174730E+01	-0.951000E-01
6.200	0.945400E+00	0.659200E+00	0.836700E+00	0.865800E+00	-0.529900E+00	0.177310E+01	-0.109700E+00
6.400	0.912800E+00	0.702100E+00	0.907800E+00	0.844000E+00	-0.590700E+00	0.179690E+01	-0.122100E+00
6.600	0.880600E+00	0.734100E+00	0.975800E+00	0.813800E+00	-0.621000E+00	0.182000E+01	-0.133400E+00
6.800	0.851500E+00	0.758000E+00	0.103540E+01	0.781700E+00	-0.625200E+00	0.184240E+01	-0.145500E+00
7.000	0.827600E+00	0.776500E+00	0.108340E+01	0.752000E+00	-0.609100E+00	0.186500E+01	-0.156900E+00
7.200	0.810200E+00	0.792000E+00	0.111790E+01	0.727100E+00	-0.578800E+00	0.188740E+01	-0.168700E+00
7.400	0.799600E+00	0.806800E+00	0.113840E+01	0.708400E+00	-0.539200E+00	0.190940E+01	-0.180900E+00
7.600	0.795900E+00	0.822600E+00	0.114510E+01	0.696400E+00	-0.494400E+00	0.193040E+01	-0.194100E+00
7.800	0.798500E+00	0.841000E+00	0.113860E+01	0.691000E+00	-0.447200E+00	0.195020E+01	-0.208600E+00
8.200	0.819200E+00	0.890000E+00	0.108850E+01	0.697700E+00	-0.353700E+00	0.198430E+01	-0.242800E+00
8.400	0.835700E+00	0.922100E+00	0.104560E+01	0.708100E+00	-0.309800E+00	0.199830E+01	-0.263400E+00
8.600	0.855100E+00	0.960000E+00	0.990500E+00	0.721600E+00	-0.268700E+00	0.201000E+01	-0.285600E+00
8.800	0.876700E+00	0.100340E+01	0.922600E+00	0.736800E+00	-0.230600E+00	0.201940E+01	-0.309800E+00
9.000	0.899700E+00	0.105140E+01	0.841200E+00	0.752300E+00	-0.195800E+00	0.202670E+01	-0.334700E+00
9.200	0.923600E+00	0.110200E+01	0.746300E+00	0.766400E+00	-0.164300E+00	0.203160E+01	-0.359900E+00
9.400	0.948000E+00	0.115170E+01	0.639300E+00	0.777400E+00	-0.136200E+00	0.203460E+01	-0.384800E+00
9.600	0.972300E+00	0.119670E+01	0.524500E+00	0.783700E+00	-0.111700E+00	0.203580E+01	-0.406300E+00
9.800	0.996100E+00	0.123380E+01	0.408900E+00	0.783300E+00	-0.917000E-01	0.203550E+01	-0.424100E+00
10.000	0.101900E+01	0.126240E+01	0.300200E+00	0.774200E+00	-0.769000E-01	0.203380E+01	-0.436100E+00
10.200	0.104040E+01	0.128460E+01	0.204600E+00	0.754300E+00	-0.687000E-01	0.203060E+01	-0.440600E+00
10.400	0.105920E+01	0.130340E+01	0.125000E+00	0.721700E+00	-0.682000E-01	0.202550E+01	-0.436000E+00
10.600	0.107430E+01	0.132170E+01	0.620000E-01	0.674500E+00	-0.766000E-01	0.201740E+01	-0.420900E+00
10.800	0.108420E+01	0.134090E+01	0.143000E-01	0.612000E+00	-0.940000E-01	0.200520E+01	-0.394200E+00
11.000	0.108740E+01	0.136110E+01	0.203000E-01	0.534600E+00	-0.119500E+00	0.198790E+01	-0.356400E+00
11.200	0.108310E+01	0.138090E+01	0.441000E-01	0.445100E+00	-0.150700E+00	0.196460E+01	-0.308400E+00
11.400	0.107120E+01	0.139880E+01	0.599000E-01	0.347700E+00	-0.184400E+00	0.193630E+01	-0.252200E+00
11.600	0.105300E+01	0.141350E+01	0.701000E-01	0.247600E+00	-0.217000E+00	0.190500E+01	-0.189800E+00
11.800	0.103040E+01	0.142470E+01	0.766000E-01	0.149500E+00	-0.245800E+00	0.187350E+01	-0.122000E+00
12.000	0.100540E+01	0.143270E+01	0.809000E-01	0.567000E-01	-0.268900E+00	0.184460E+01	-0.485000E-01
12.200	0.979700E+00	0.143800E+01	0.840000E-01	-0.295000E-01	-0.285600E+00	0.182020E+01	0.327000E-01
12.400	0.954300E+00	0.144130E+01	0.865000E-01	-0.108400E+00	-0.295700E+00	0.180160E+01	0.123000E+00
12.600	0.929800E+00	0.144280E+01	0.886000E-01	-0.180700E+00	-0.299400E+00	0.178960E+01	0.221900E+00
12.800	0.906600E+00	0.144290E+01	0.905000E-01	-0.246700E+00	-0.297200E+00	0.178420E+01	0.323500E+00
13.000	0.884800E+00	0.144150E+01	0.921000E-01	-0.307200E+00	-0.289500E+00	0.178530E+01	0.418300E+00
13.200	0.864400E+00	0.143860E+01	0.935000E-01	-0.362900E+00	-0.276700E+00	0.179290E+01	0.497200E+00
13.400	0.845400E+00	0.143400E+01	0.945000E-01	-0.414100E+00	-0.259400E+00	0.180660E+01	0.555500E+00
13.600	0.827800E+00	0.142750E+01	0.952000E-01	-0.461300E+00	-0.237900E+00	0.182610E+01	0.593100E+00
13.800	0.811700E+00	0.141880E+01	0.955000E-01	-0.504900E+00	-0.212600E+00	0.185080E+01	0.612700E+00
14.000	0.796900E+00	0.140780E+01	0.954000E-01	-0.544900E+00	-0.183900E+00	0.188030E+01	0.616500E+00
14.200	0.783700E+00	0.139420E+01	0.949000E-01	-0.581600E+00	-0.152200E+00	0.191390E+01	0.607000E+00
14.400	0.772000E+00	0.137770E+01	0.940000E-01	-0.615200E+00	-0.117900E+00	0.195070E+01	0.586000E+00
14.600	0.762000E+00	0.135800E+01	0.927000E-01	-0.645600E+00	0.812000E-01	0.199000E+01	0.555600E+00
15.000	0.747300E+00	0.130880E+01	0.889000E-01	-0.697500E+00	0.210000E-02	0.207240E+01	0.471000E+00
15.200	0.742900E+00	0.127880E+01	0.866000E-01	-0.718900E+00	0.396000E-01	0.211390E+01	0.420100E+00
15.800	0.743000E+00	0.116750E+01	0.862000E-01	-0.764100E+00	0.169500E+00	0.223020E+01	0.250400E+00
16.400	0.766200E+00	0.102690E+01	0.690000E-01	-0.777300E+00	0.297200E+00	0.232350E+01	0.852000E-01
16.600	0.779600E+00	0.975000E+00	0.661000E-01	-0.773500E+00	0.336800E+00	0.234790E+01	0.367000E-01
16.800	0.796100E+00	0.921400E+00	0.634000E-01	-0.765100E+00	0.374000E+00	0.236820E+01	-0.690000E-02
17.000	0.815800E+00	0.866600E+00	0.607000E-01	-0.752300E+00	0.408500E+00	0.238550E+01	-0.458000E-01
17.200	0.838600E+00	0.811100E+00	0.583000E-01	-0.734500E+00	0.439400E+00	0.239870E+01	-0.785000E-01
17.400	0.864700E+00	0.755400E+00	0.562000E-01	-0.711800E+00	0.466400E+00	0.240810E+01	-0.105400E+00
17.600	0.893900E+00	0.700200E+00	0.543000E-01	-0.684100E+00	0.489100E+00	0.241380E+01	-0.126300E+00
17.800	0.926000E+00	0.645800E+00	0.526000E-01	-0.651500E+00	0.507200E+00	0.241570E+01	-0.141400E+00
18.000	0.960800E+00	0.592800E+00	0.511000E-01	-0.614200E+00	0.520500E+00	0.241370E+01	-0.150700E+00
18.200	0.997900E+00	0.541600E+00	0.499000E-01	-0.572500E+00	0.528800E+00	0.240800E+01	-0.154700E+00
18.400	0.103680E+01	0.492400E+00	0.488000E-01	-0.526900E+00	0.532300E+00	0.239880E+01	-0.153400E+00
18.600	0.107700E+01	0.445600E+00	0.479000E-01	-0.478100E+00	0.531100E+00	0.238600E+01	-0.147900E+00
18.800	0.111780E+01	0.401400E+00	0.471000E-01	-0.426700E+00	0.525500E+00	0.237000E+01	-0.138500E+00
19.000	0.115850E+01	0.360100E+00	0.464000E-01	-0.373600E+00	0.516000E+00	0.235090E+01	-0.125900E+00
19.200	0.119850E+01	0.321700E+00	0.458000E-01	-0.319800E+00	0.503100E+00	0.232930E+01	-0.110700E+00
19.600	0.127380E+01	0.254100E+00	0.445000E-01	-0.213300E+00	0.469500E+00	0.228020E+01	-0.755000E-01
19.800	0.130830E+01	0.224700E+00	0.439000E-01	-0.162200E+00	0.450200E+00	0.225390E+01	-0.567000E-01
20.000	0.134030E+01	0.198300E+00	0.432000E-01	-0.113300E+00	0.429800E+00	0.222710E+01	-0.377000E-01
20.200	0.136960E+01	0.174500E+00	0.425000E-01	-0.672000E-01	0.409000E+00	0.220030E+01	-0.189000E-01
20.400	0.139630E+01	0.153400E+00	0.418000E-01	-0.241000E-01	0.388200E+00	0.217390E+01	0.700000E-03
20.600	0.142030E+01	0.134500E+00	0.411000E-01	-0.159000E-01	0.367700E+00	0.214830E+01	0.170000E-01

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3	20.800	0.144180E+01	0.117800E+00	0.404000E-01	0.526000E-01	0.347800E+00	0.212380E+01	0.334000E-01
4	21.000	0.146100E+01	0.103000E+00	0.396000E-01	0.863000E-01	0.328600E+00	0.210050E+01	0.490000E-01
5	21.200	0.147800E+01	0.899000E-01	0.388000E-01	0.116900E+00	0.310400E+00	0.207860E+01	0.634000E-01
6	25.000	0.159660E+01	0.240000E-02	0.251000E-01	0.361600E+00	0.118700E+00	0.188390E+01	0.187000E+00
7	25.200	0.159820E+01	0.370000E-02	0.245000E-01	0.365700E+00	0.113900E+00	0.188080E+01	0.188800E+00
8	25.400	0.159970E+01	0.490000E-02	0.239000E-01	0.369500E+00	0.109300E+00	0.187800E+01	0.190200E+00
9	26.200	0.160450E+01	0.870000E-02	0.218000E-01	0.381800E+00	0.937000E-01	0.186960E+01	0.194000E+00
10	26.600	0.160630E+01	0.101000E-01	0.209000E-01	0.386600E+00	0.871000E-01	0.186680E+01	0.194200E+00
11	26.800	0.160710E+01	0.107000E-01	0.204000E-01	0.388700E+00	0.841000E-01	0.186570E+01	0.194000E+00
12	29.800	0.161430E+01	0.145000E-01	0.148000E-01	0.407100E+00	0.532000E-01	0.186170E+01	0.173700E+00
13	30.600	0.161540E+01	0.146000E-01	0.137000E-01	0.409600E+00	0.482000E-01	0.186250E+01	0.165200E+00
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For Peer Review Only

Table 4: $(4)^1\Sigma^+ - (1-7)^1\Pi$ transitions

R	4-1	4-2	4-3	4-4	4-5	4-6	4-7
3.800	-0.130500E+00	-0.136050E+01	0.778200E+00	0.168800E+01	0.148000E+00	-0.113890E+01	0.295200E+00
4.000	-0.600000E-01	-0.191140E+01	0.440000E+00	0.480960E+01	0.302450E+01	-0.214350E+01	0.914600E+00
4.200	-0.274200E+00	-0.131380E+01	0.357200E+00	0.150940E+01	0.518000E+00	-0.643900E+00	0.209900E+00
4.600	-0.811600E+00	-0.134550E+01	0.140000E-01	0.217060E+01	0.890000E+00	-0.774200E+00	0.620000E-02
4.800	-0.148920E+01	-0.887100E+00	-0.242900E+00	0.253430E+01	0.113100E+01	-0.749100E+00	-0.768400E+00
5.000	-0.181540E+01	-0.445600E+00	-0.493500E+00	0.279200E+01	0.128060E+01	-0.674000E+00	-0.972500E+00
5.200	-0.195670E+01	-0.245200E+00	-0.746100E+00	0.294930E+01	0.130470E+01	-0.634100E+00	-0.945400E+00
5.400	-0.204670E+01	-0.123400E+00	-0.977500E+00	0.304180E+01	0.121110E+01	-0.611600E+00	-0.900400E+00
5.600	-0.211280E+01	-0.247000E-01	-0.116540E+01	0.309860E+01	0.101930E+01	-0.596300E+00	-0.842200E+00
5.800	-0.216290E+01	0.690000E-01	-0.129600E+01	0.313030E+01	0.757600E+00	-0.581900E+00	-0.774000E+00
6.000	-0.219830E+01	0.163600E+00	-0.136620E+01	0.313280E+01	0.462700E+00	-0.563800E+00	-0.701100E+00
6.200	-0.221710E+01	0.259500E+00	-0.138100E+01	0.310000E+01	0.173800E+00	-0.539300E+00	-0.628600E+00
6.400	-0.221590E+01	0.354500E+00	-0.134790E+01	0.302990E+01	-0.848000E-01	-0.507600E+00	-0.562400E+00
6.600	-0.219090E+01	0.445300E+00	-0.127560E+01	0.292140E+01	-0.305300E+00	-0.469500E+00	-0.506100E+00
6.800	-0.213880E+01	0.528100E+00	-0.117180E+01	0.277170E+01	-0.489600E+00	-0.426700E+00	-0.463000E+00
7.000	-0.205720E+01	0.599300E+00	-0.104370E+01	0.257710E+01	-0.642000E+00	-0.380500E+00	-0.433700E+00
7.200	-0.194530E+01	0.655600E+00	-0.897700E+00	0.233570E+01	-0.766400E+00	-0.331600E+00	-0.417500E+00
7.400	-0.180530E+01	0.694700E+00	-0.740100E+00	0.204980E+01	-0.865000E+00	-0.280600E+00	-0.413000E+00
7.600	-0.164260E+01	0.715600E+00	-0.577200E+00	0.172840E+01	-0.938600E+00	-0.227600E+00	-0.418200E+00
7.800	-0.146590E+01	0.719600E+00	-0.416200E+00	0.138690E+01	-0.987700E+00	-0.173300E+00	-0.430400E+00
8.200	-0.111250E+01	0.691100E+00	-0.125100E+00	0.718100E+00	-0.101850E+01	-0.644000E-01	-0.467600E+00
8.400	-0.953800E+00	0.668800E+00	-0.480000E-02	0.421800E+00	-0.100690E+01	-0.127000E-01	-0.489300E+00
8.600	-0.813600E+00	0.647800E+00	0.954000E-01	0.161800E+00	-0.983300E+00	0.350000E-01	-0.511400E+00
8.800	-0.692800E+00	0.631900E+00	0.174800E+00	0.608000E-01	-0.952200E+00	0.775000E-01	-0.533700E+00
9.000	-0.590000E+00	0.623400E+00	0.233700E+00	0.249100E+00	-0.917500E+00	0.113600E+00	-0.555700E+00
9.200	-0.502500E+00	0.622900E+00	0.272700E+00	0.407900E+00	-0.882400E+00	0.141600E+00	-0.576400E+00
9.400	-0.426800E+00	0.629300E+00	0.293700E+00	0.542700E+00	-0.849100E+00	0.160500E+00	-0.596500E+00
9.600	-0.359500E+00	0.639500E+00	0.299400E+00	0.658800E+00	-0.819500E+00	0.169300E+00	-0.616600E+00
9.800	-0.297000E+00	0.649100E+00	0.294200E+00	0.761100E+00	-0.794300E+00	0.166000E+00	-0.636300E+00
10.000	-0.236200E+00	0.653700E+00	0.282900E+00	0.854100E+00	-0.774000E+00	0.149300E+00	-0.656200E+00
10.200	-0.173900E+00	0.649700E+00	0.270200E+00	0.941100E+00	-0.758200E+00	0.117700E+00	-0.676800E+00
10.400	-0.107400E+00	0.634800E+00	0.259000E+00	0.102480E+01	-0.746000E+00	0.701000E-01	-0.698200E+00
10.600	-0.350000E-01	0.607600E+00	0.250800E+00	0.110670E+01	-0.735600E+00	0.640000E-02	-0.720200E+00
10.800	0.444000E-01	0.568200E+00	0.246200E+00	0.118690E+01	-0.725300E+00	-0.721000E-01	-0.741800E+00
11.000	0.129900E+00	0.518200E+00	0.244600E+00	0.126440E+01	-0.712700E+00	-0.161700E+00	-0.761300E+00
11.200	0.219200E+00	0.460800E+00	0.245100E+00	0.133730E+01	-0.695900E+00	-0.256400E+00	-0.776300E+00
11.400	0.308800E+00	0.400600E+00	0.246600E+00	0.140380E+01	-0.673700E+00	-0.348800E+00	-0.784600E+00
11.600	0.395300E+00	0.342300E+00	0.248100E+00	0.146320E+01	-0.645700E+00	-0.432000E+00	-0.784300E+00
11.800	0.476300E+00	0.289900E+00	0.248600E+00	0.151620E+01	-0.612100E+00	-0.501300E+00	-0.774500E+00
12.000	0.551200E+00	0.245800E+00	0.247900E+00	0.156440E+01	-0.573800E+00	-0.554400E+00	-0.755100E+00
12.200	0.620300E+00	0.210800E+00	0.245800E+00	0.160990E+01	-0.531400E+00	-0.591300E+00	-0.726500E+00
12.400	0.685200E+00	0.184800E+00	0.242500E+00	0.165470E+01	-0.485700E+00	-0.613500E+00	-0.689300E+00
12.600	0.747800E+00	0.167400E+00	0.238100E+00	0.170080E+01	-0.437400E+00	-0.622700E+00	-0.644100E+00
12.800	0.810100E+00	0.157800E+00	0.233100E+00	0.175000E+01	-0.386900E+00	-0.620900E+00	-0.592400E+00
13.000	0.874200E+00	0.155300E+00	0.227700E+00	0.180380E+01	-0.334900E+00	-0.609800E+00	-0.536600E+00
13.200	0.942300E+00	0.159700E+00	0.222300E+00	0.186400E+01	-0.281600E+00	-0.590800E+00	-0.479600E+00
13.400	0.101650E+01	0.170600E+00	0.217000E+00	0.193190E+01	-0.227300E+00	-0.564900E+00	-0.423900E+00
13.600	0.109850E+01	0.188000E+00	0.212100E+00	0.200880E+01	-0.172200E+00	-0.532900E+00	-0.369900E+00
13.800	0.118960E+01	0.211900E+00	0.207600E+00	0.209510E+01	-0.116200E+00	-0.495200E+00	-0.315500E+00
14.000	0.128990E+01	0.241900E+00	0.203500E+00	0.218980E+01	-0.590000E-01	-0.452100E+00	-0.259100E+00
14.200	0.139760E+01	0.277300E+00	0.199500E+00	0.228920E+01	0.300000E-03	-0.404000E+00	-0.198800E+00
14.400	0.150800E+01	0.316300E+00	0.195200E+00	0.238690E+01	0.599000E-01	-0.351400E+00	-0.133400E+00
14.600	0.161420E+01	0.356100E+00	0.189900E+00	0.247390E+01	0.121300E+00	-0.295700E+00	-0.628000E-01
15.000	0.178500E+01	0.425400E+00	0.175600E+00	0.258520E+01	0.242900E+00	-0.183900E+00	0.860000E-01
15.200	0.184160E+01	0.450500E+00	0.166700E+00	0.260450E+01	0.300500E+00	-0.132200E+00	0.158900E+00
15.800	0.191320E+01	0.486600E+00	0.138100E+00	0.256270E+01	0.451000E+00	-0.260000E-02	0.354500E+00
16.400	0.190140E+01	0.485200E+00	0.113000E+00	0.246920E+01	0.572300E+00	0.102800E+00	0.512200E+00
16.600	0.188860E+01	0.480500E+00	0.105900E+00	0.243910E+01	0.608400E+00	0.137100E+00	0.556800E+00
16.800	0.187290E+01	0.474500E+00	0.992000E-01	0.241130E+01	0.643100E+00	0.172000E+00	0.597800E+00
17.000	0.185470E+01	0.467500E+00	0.932000E-01	0.238690E+01	0.677300E+00	0.209900E+00	0.637000E+00
17.200	0.183440E+01	0.459800E+00	0.876000E-01	0.236540E+01	0.710800E+00	0.249900E+00	0.672800E+00
17.400	0.181200E+01	0.451400E+00	0.824000E-01	0.234720E+01	0.744100E+00	0.293000E+00	0.706200E+00
17.600	0.178750E+01	0.442400E+00	0.775000E-01	0.233220E+01	0.777500E+00	0.339500E+00	0.737400E+00
17.800	0.176110E+01	0.432800E+00	0.730000E-01	0.232010E+01	0.810900E+00	0.389600E+00	0.766700E+00
18.000	0.173260E+01	0.422700E+00	0.687000E-01	0.231080E+01	0.844500E+00	0.443100E+00	0.794000E+00
18.200	0.170200E+01	0.411800E+00	0.647000E-01	0.230390E+01	0.878200E+00	0.499900E+00	0.819600E+00
18.400	0.166950E+01	0.400300E+00	0.609000E-01	0.229890E+01	0.911700E+00	0.559500E+00	0.843500E+00
18.600	0.163520E+01	0.388100E+00	0.573000E-01	0.229560E+01	0.944900E+00	0.621200E+00	0.865800E+00
18.800	0.159930E+01	0.375100E+00	0.539000E-01	0.229340E+01	0.977300E+00	0.684300E+00	0.886400E+00
19.000	0.156230E+01	0.361300E+00	0.506000E-01	0.229220E+01	0.100880E+01	0.747600E+00	0.905400E+00
19.200	0.152460E+01	0.346900E+00	0.475000E-01	0.229160E+01	0.103900E+01	0.810600E+00	0.923000E+00
19.600	0.144910E+01	0.316100E+00	0.420000E-01	0.229190E+01	0.109380E+01	0.931100E+00	0.953400E+00
19.800	0.141240E+01	0.300200E+00	0.394000E-01	0.229260E+01	0.111830E+01	0.987100E+00	0.966900E+00
20.000	0.137710E+01	0.284000E+00	0.370000E-01	0.229400E+01	0.114050E+01	0.103950E+01	0.979300E+00
20.200	0.134360E+01	0.267700E+00	0.348000E-01	0.229600E+01	0.116020E+01	0.108780E+01	0.990600E+00
20.400	0.131220E+01	0.251400E+00	0.328000E-01	0.229910E+01	0.117780E+01	0.113200E+01	0.100120E+01
20.600	0.128330E+01	0.235400E+00	0.309000E-01	0.230300E+01	0.119280E+01	0.117110E+01	0.101000E+01

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3	20.800	0.125700E+01	0.219600E+00	0.292000E-01	0.230860E+01	0.120580E+01	0.120650E+01	0.101940E+01
4	21.000	0.123340E+01	0.204100E+00	0.276000E-01	0.231570E+01	0.121660E+01	0.123740E+01	0.102780E+01
5	21.200	0.121250E+01	0.189000E+00	0.261000E-01	0.232460E+01	0.122550E+01	0.126450E+01	0.103660E+01
6	25.000	0.203000E-01	0.784000E-01	0.188000E-01	0.705000E-01	0.780000E-01	0.400000E-03	0.601000E-01
7	25.200	0.210000E-01	0.768000E-01	0.184000E-01	0.657000E-01	0.746000E-01	0.150000E-02	0.584000E-01
8	25.400	0.214000E-01	0.751000E-01	0.179000E-01	0.615000E-01	0.715000E-01	0.290000E-02	0.569000E-01
9	26.200	0.216000E-01	0.689000E-01	0.161000E-01	0.492000E-01	0.616000E-01	0.660000E-02	0.526000E-01
10	26.600	0.212000E-01	0.660000E-01	0.152000E-01	0.448000E-01	0.577000E-01	0.760000E-02	0.509000E-01
11	26.800	0.209000E-01	0.646000E-01	0.148000E-01	0.429000E-01	0.560000E-01	0.800000E-02	0.502000E-01
12	30.000	0.150000E-01	0.257000E-01	0.372000E-01	0.860000E-02	0.409000E-01	0.123000E-01	0.144200E+00
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Table 5: $(1)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.800	-0.530300E+00	0.181000E+01	-0.207800E+01	-0.111220E+01	-0.536200E+00	-0.731300E+00	-0.775000E+00
4.000	-0.386400E+00	0.190080E+01	-0.218090E+01	-0.106540E+01	-0.544200E+00	-0.233100E+00	-0.440300E+00
4.200	-0.261300E+00	0.198750E+01	-0.225350E+01	-0.103500E+01	-0.507500E+00	-0.118800E+00	-0.389000E-01
4.600	0.549000E-01	0.215500E+01	-0.232650E+01	-0.100590E+01	-0.382200E+00	-0.348100E+00	0.242400E+00
4.800	0.295000E-01	0.223210E+01	-0.233610E+01	-0.101100E+01	-0.302800E+00	-0.416600E+00	0.123000E-01
5.000	0.102600E+00	0.230140E+01	-0.233190E+01	-0.103330E+01	-0.207800E+00	-0.445300E+00	0.385800E+00
5.200	0.165300E+00	0.236140E+01	-0.230870E+01	-0.108680E+01	-0.886000E-01	-0.454200E+00	0.383400E+00
5.400	0.218700E+00	0.241140E+01	-0.220400E+01	-0.127770E+01	0.695000E-01	-0.452000E+00	0.375000E+00
5.600	0.264100E+00	0.245190E+01	0.498800E+00	-0.248020E+01	0.288300E+00	-0.442500E+00	0.364000E+00
5.800	0.302800E+00	0.248380E+01	0.884400E+00	-0.231510E+01	0.588700E+00	-0.426400E+00	0.350200E+00
6.000	0.336100E+00	0.250800E+01	0.970800E+00	-0.215850E+01	0.954500E+00	-0.402900E+00	0.332800E+00
6.200	0.365400E+00	0.252590E+01	0.102550E+01	-0.195300E+01	0.130010E+01	-0.369100E+00	0.311200E+00
6.400	0.391900E+00	0.253850E+01	0.107370E+01	-0.175200E+01	0.154810E+01	-0.319900E+00	0.285600E+00
6.600	0.416800E+00	0.254700E+01	0.112230E+01	-0.159710E+01	0.169890E+01	-0.247400E+00	0.256700E+00
6.800	0.440900E+00	0.255210E+01	0.117520E+01	-0.149040E+01	0.178230E+01	-0.147000E+00	0.226100E+00
7.000	0.465200E+00	0.255460E+01	0.123450E+01	-0.141930E+01	0.181820E+01	-0.332000E-01	0.195500E+00
7.200	0.490400E+00	0.255520E+01	0.130240E+01	-0.137110E+01	0.181990E+01	0.506000E-01	0.166900E+00
7.400	0.517100E+00	0.255420E+01	0.138010E+01	-0.133600E+01	0.180010E+01	0.733000E-01	0.141500E+00
7.600	0.545800E+00	0.255200E+01	0.146820E+01	-0.130630E+01	0.176440E+01	0.497000E-01	0.120000E+00
7.800	0.576800E+00	0.254880E+01	0.156580E+01	-0.127700E+01	0.171330E+01	-0.103000E-01	0.102400E+00
8.200	0.647600E+00	0.253960E+01	0.177880E+01	-0.121020E+01	0.156790E+01	-0.562000E-01	0.769000E-01
8.400	0.687800E+00	0.253370E+01	0.188560E+01	-0.117480E+01	0.147660E+01	-0.776000E-01	0.676000E-01
8.600	0.731800E+00	0.252660E+01	0.198660E+01	-0.114250E+01	0.137500E+01	-0.927000E-01	0.597000E-01
8.800	0.779800E+00	0.251810E+01	0.207850E+01	-0.111740E+01	0.126420E+01	-0.102900E+00	0.527000E-01
9.000	0.832100E+00	0.250800E+01	0.215960E+01	-0.110160E+01	0.114550E+01	-0.109500E+00	0.459000E-01
9.200	0.888900E+00	0.249580E+01	0.222930E+01	-0.109420E+01	0.102110E+01	-0.113300E+00	0.388000E-01
9.400	0.950600E+00	0.248110E+01	0.228840E+01	-0.109120E+01	0.894900E+00	-0.114900E+00	0.312000E-01
9.600	0.101740E+01	0.246310E+01	0.233800E+01	-0.108680E+01	0.773600E+00	-0.114800E+00	0.226000E-01
9.800	0.108940E+01	0.244130E+01	0.237930E+01	-0.107680E+01	0.664600E+00	-0.113200E+00	0.128000E-01
10.000	0.116660E+01	0.241500E+01	0.241380E+01	-0.105980E+01	0.572800E+00	-0.110500E+00	0.190000E-02
10.200	0.124910E+01	0.238330E+01	0.244280E+01	-0.103730E+01	0.499800E+00	-0.106700E+00	0.101000E-01
10.400	0.133640E+01	0.234550E+01	0.246740E+01	-0.101150E+01	0.443900E+00	-0.102000E+00	0.225000E-01
10.600	0.142810E+01	0.230100E+01	0.248860E+01	-0.984300E+00	0.402100E+00	-0.964000E-01	0.345000E-01
10.800	0.152330E+01	0.224910E+01	0.250740E+01	-0.956800E+00	0.371100E+00	-0.901000E-01	0.454000E-01
11.000	0.162110E+01	0.218960E+01	0.252430E+01	-0.929300E+00	0.348400E+00	-0.831000E-01	0.544000E-01
11.200	0.172020E+01	0.212240E+01	0.253990E+01	-0.901900E+00	0.331800E+00	-0.755000E-01	0.613000E-01
11.400	0.181920E+01	0.204780E+01	0.255470E+01	-0.874400E+00	0.319500E+00	-0.672000E-01	0.663000E-01
11.600	0.191660E+01	0.196620E+01	0.256890E+01	-0.846400E+00	0.310500E+00	-0.586000E-01	0.694000E-01
11.800	0.201090E+01	0.187880E+01	0.258280E+01	-0.817600E+00	0.303800E+00	-0.495000E-01	0.711000E-01
12.000	0.210090E+01	0.178680E+01	0.259640E+01	-0.787500E+00	0.298800E+00	-0.403000E-01	0.717000E-01
12.200	0.218570E+01	0.169140E+01	0.260960E+01	-0.756000E+00	0.294900E+00	-0.309000E-01	0.712000E-01
12.400	0.226440E+01	0.159410E+01	0.262250E+01	-0.722900E+00	0.291800E+00	-0.217000E-01	0.699000E-01
12.600	0.233680E+01	0.149630E+01	0.263480E+01	-0.688000E+00	0.289200E+00	-0.128000E-01	0.677000E-01
12.800	0.240280E+01	0.139930E+01	0.264640E+01	-0.651400E+00	0.287100E+00	-0.420000E-02	0.646000E-01
13.000	0.246260E+01	0.130420E+01	0.265700E+01	-0.613200E+00	0.285100E+00	0.400000E-02	0.605000E-01
13.200	0.251640E+01	0.121200E+01	0.266660E+01	-0.573700E+00	0.283300E+00	0.115000E-01	0.554000E-01
13.400	0.256470E+01	0.112330E+01	0.267490E+01	-0.533200E+00	0.281500E+00	0.184000E-01	0.490000E-01
13.600	0.260800E+01	0.103890E+01	0.268180E+01	-0.492100E+00	0.279800E+00	0.247000E-01	0.410000E-01
13.800	0.264670E+01	0.959000E+00	0.268720E+01	-0.450700E+00	0.278100E+00	0.303000E-01	0.314000E-01
14.000	0.268130E+01	0.884000E+00	0.269120E+01	-0.409700E+00	0.276300E+00	0.353000E-01	0.201000E-01
14.200	0.271240E+01	0.813900E+00	0.269370E+01	-0.369300E+00	0.274500E+00	0.396000E-01	0.770000E-02
14.400	0.274030E+01	0.748800E+00	0.269480E+01	-0.330000E+00	0.272700E+00	0.434000E-01	-0.420000E-02
14.600	0.276530E+01	0.688600E+00	0.269480E+01	-0.292200E+00	0.270900E+00	0.467000E-01	-0.139000E-01
15.000	0.280830E+01	0.582200E+00	0.269150E+01	-0.222000E+00	0.267100E+00	0.518000E-01	-0.240000E-01
15.200	0.282680E+01	0.535500E+00	0.268860E+01	-0.190000E+00	0.265100E+00	0.538000E-01	-0.252000E-01
15.800	0.287300E+01	0.418400E+00	0.267890E+01	-0.106800E+00	0.258900E+00	0.577000E-01	-0.218000E-01
16.400	0.290850E+01	0.329600E+00	0.266300E+01	-0.417000E-01	0.252400E+00	0.595000E-01	-0.147000E-01
16.600	0.291860E+01	0.305100E+00	0.265820E+01	-0.234000E-01	0.250200E+00	0.598000E-01	-0.122000E-01
16.800	0.292790E+01	0.282700E+00	0.265350E+01	-0.670000E-02	0.247900E+00	0.599000E-01	-0.980000E-02
17.000	0.293660E+01	0.262200E+00	0.264880E+01	0.870000E-02	0.245400E+00	0.599000E-01	-0.740000E-02
17.200	0.294470E+01	0.243500E+00	0.264430E+01	0.229000E-01	0.243000E+00	0.599000E-01	-0.510000E-02
17.400	0.295230E+01	0.226400E+00	0.263980E+01	0.360000E-01	0.240400E+00	0.597000E-01	-0.280000E-02
17.600	0.295940E+01	0.210700E+00	0.263550E+01	0.482000E-01	0.237700E+00	0.594000E-01	-0.300000E-03
17.800	0.296610E+01	0.196300E+00	0.263140E+01	0.597000E-01	0.234800E+00	0.591000E-01	0.440000E-02
18.000	0.297240E+01	0.183000E+00	0.262730E+01	0.705000E-01	0.231800E+00	0.587000E-01	0.321000E-01
18.200	0.297830E+01	0.170800E+00	0.262350E+01	0.807000E-01	0.228600E+00	0.583000E-01	0.319000E-01
18.400	0.298390E+01	0.159500E+00	0.261970E+01	0.905000E-01	0.225200E+00	0.578000E-01	0.314000E-01
18.600	0.298920E+01	0.149100E+00	0.261610E+01	0.100000E+00	0.221400E+00	0.573000E-01	0.309000E-01
18.800	0.299430E+01	0.139500E+00	0.261270E+01	0.109200E+00	0.217400E+00	0.567000E-01	0.305000E-01
19.000	0.299910E+01	0.130600E+00	0.260940E+01	0.118200E+00	0.213000E+00	0.561000E-01	0.300000E-01
19.200	0.300360E+01	0.122400E+00	0.260620E+01	0.127200E+00	0.208200E+00	0.555000E-01	0.296000E-01
19.600	0.301210E+01	0.107600E+00	0.260020E+01	0.144800E+00	0.197000E+00	0.541000E-01	0.288000E-01
19.800	0.301610E+01	0.100900E+00	0.259730E+01	0.153600E+00	0.190600E+00	0.533000E-01	0.284000E-01
20.000	0.301990E+01	0.947000E-01	0.259460E+01	0.162300E+00	0.183600E+00	0.525000E-01	0.281000E-01
20.200	0.302350E+01	0.889000E-01	0.259200E+01	0.170900E+00	0.175900E+00	0.517000E-01	0.278000E-01
20.400	0.302700E+01	0.835000E-01	0.258940E+01	0.179200E+00	0.167600E+00	0.509000E-01	0.274000E-01
20.600	0.303030E+01	0.784000E-01	0.258700E+01	0.187300E+00	0.158800E+00	0.500000E-01	0.272000E-01

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3	20.800	0.303350E+01	0.737000E-01	0.258460E+01	0.195000E+00	0.149500E+00	0.491000E-01	0.269000E-01
4	21.000	0.303660E+01	0.692000E-01	0.258240E+01	0.202200E+00	0.139900E+00	0.481000E-01	0.266000E-01
5	21.200	0.303960E+01	0.650000E-01	0.258020E+01	0.208700E+00	0.130200E+00	0.471000E-01	0.264000E-01
6	25.000	0.307970E+01	0.180000E-01	0.255000E+01	0.246200E+00	0.178000E-01	0.250000E-01	0.232000E-01
7	25.200	0.308120E+01	0.166000E-01	0.254870E+01	0.246400E+00	0.156000E-01	0.239000E-01	0.230000E-01
8	25.400	0.308260E+01	0.153000E-01	0.254690E+01	0.246500E+00	0.137000E-01	0.228000E-01	0.229000E-01
9	26.200	0.308800E+01	0.106000E-01	0.254360E+01	0.246700E+00	0.740000E-02	0.188000E-01	0.221000E-01
10	26.600	0.309040E+01	0.860000E-02	0.254170E+01	0.246700E+00	0.510000E-02	0.169000E-01	0.216000E-01
11	26.800	0.309160E+01	0.770000E-02	0.254080E+01	0.246600E+00	0.400000E-02	0.160000E-01	0.214000E-01
12	29.800	0.310540E+01	0.190000E-02	0.252960E+01	0.245700E+00	0.390000E-02	0.700000E-02	0.171000E-01
13	30.600	0.310830E+01	0.350000E-02	0.252740E+01	0.245500E+00	0.470000E-02	0.570000E-02	0.159000E-01
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Table 6: $(2)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	2-1	2-2	2-3	2-4	2-5	2-6	2-7
3.800	0.952700E+00	0.324500E+00	-0.496000E-01	0.316200E+00	-0.281800E+00	-0.112010E+01	-0.616500E+00
4.000	0.102510E+01	0.257900E+00	0.100000E-01	0.428200E+00	-0.171400E+00	-0.123700E+01	-0.813300E+00
4.200	0.110440E+01	0.225600E+00	0.352000E-01	0.586400E+00	-0.934000E-01	-0.752500E+00	-0.189850E+01
4.600	0.128830E+01	0.255900E+00	0.141500E+00	0.934200E+00	0.680000E-01	-0.793700E+00	-0.232020E+01
4.800	0.139260E+01	0.316000E+00	0.205300E+00	0.111940E+01	0.115900E+00	-0.117120E+01	-0.202280E+01
5.000	0.150400E+01	0.405700E+00	0.283400E+00	0.131480E+01	0.193600E+00	-0.134940E+01	-0.653900E+00
5.200	0.162040E+01	0.525800E+00	0.393800E+00	0.151990E+01	0.291400E+00	-0.142560E+01	-0.611600E+00
5.400	0.173800E+01	0.677300E+00	0.635300E+00	0.170230E+01	0.395400E+00	-0.143030E+01	-0.618100E+00
5.600	0.184920E+01	0.859400E+00	0.208240E+01	0.105100E+00	0.483100E+00	-0.136620E+01	-0.631700E+00
5.800	0.194000E+01	0.106490E+01	0.229800E+01	0.551800E+00	0.519000E+00	-0.122830E+01	-0.640700E+00
6.000	0.199230E+01	0.127470E+01	0.250520E+01	0.767900E+00	0.468400E+00	-0.101950E+01	-0.638200E+00
6.200	0.199390E+01	0.146040E+01	0.265500E+01	0.914200E+00	0.342300E+00	-0.764600E+00	-0.619900E+00
6.400	0.194900E+01	0.160070E+01	0.272960E+01	0.978200E+00	0.200800E+00	-0.503900E+00	-0.588000E+00
6.600	0.187490E+01	0.169250E+01	0.273960E+01	0.981600E+00	0.876000E-01	-0.269800E+00	-0.548100E+00
6.800	0.178820E+01	0.174530E+01	0.270670E+01	0.956800E+00	0.126000E-01	-0.747000E-01	-0.505100E+00
7.000	0.169870E+01	0.177120E+01	0.264950E+01	0.927100E+00	-0.284000E-01	0.823000E-01	-0.461200E+00
7.200	0.161060E+01	0.177970E+01	0.257950E+01	0.906100E+00	-0.490000E-01	0.205900E+00	-0.417300E+00
7.400	0.152530E+01	0.177730E+01	0.250240E+01	0.900600E+00	-0.668000E-01	0.300800E+00	-0.373400E+00
7.600	0.144290E+01	0.176800E+01	0.242100E+01	0.913500E+00	-0.903000E-01	0.372800E+00	-0.329400E+00
7.800	0.136330E+01	0.175470E+01	0.233630E+01	0.944300E+00	-0.117000E+00	0.427400E+00	-0.285200E+00
8.200	0.121090E+01	0.172280E+01	0.215960E+01	0.104590E+01	-0.159600E+00	0.502100E+00	-0.196400E+00
8.400	0.113770E+01	0.170640E+01	0.207600E+01	0.110550E+01	-0.167400E+00	0.528800E+00	-0.152600E+00
8.600	0.106640E+01	0.169070E+01	0.198420E+01	0.116340E+01	-0.161100E+00	0.551200E+00	-0.109900E+00
8.800	0.996800E+00	0.167610E+01	0.190280E+01	0.121520E+01	-0.137600E+00	0.570700E+00	-0.691000E-01
9.000	0.929100E+00	0.166300E+01	0.182830E+01	0.125790E+01	-0.941000E-01	0.588400E+00	-0.309000E-01
9.200	0.863200E+00	0.165170E+01	0.176170E+01	0.128910E+01	-0.307000E-01	0.605100E+00	-0.400000E-02
9.400	0.799400E+00	0.164260E+01	0.170310E+01	0.130670E+01	0.485000E-01	0.621600E+00	0.342000E-01
9.600	0.737800E+00	0.163580E+01	0.165220E+01	0.131000E+01	0.134600E+00	0.638100E+00	0.590000E-01
9.800	0.678800E+00	0.163180E+01	0.160790E+01	0.130070E+01	0.216700E+00	0.655300E+00	0.771000E-01
10.000	0.622600E+00	0.163070E+01	0.156920E+01	0.128220E+01	0.286400E+00	0.673500E+00	0.881000E-01
10.200	0.569700E+00	0.163290E+01	0.153500E+01	0.125830E+01	0.340100E+00	0.692900E+00	0.916000E-01
10.400	0.520300E+00	0.163870E+01	0.150390E+01	0.123140E+01	0.378100E+00	0.713900E+00	0.884000E-01
10.600	0.474800E+00	0.164850E+01	0.147480E+01	0.120310E+01	0.402800E+00	0.736500E+00	0.799000E-01
10.800	0.433400E+00	0.166260E+01	0.144670E+01	0.117360E+01	0.417400E+00	0.760900E+00	0.682000E-01
11.000	0.396300E+00	0.168110E+01	0.141860E+01	0.114310E+01	0.424500E+00	0.787100E+00	0.552000E-01
11.200	0.363300E+00	0.170430E+01	0.138970E+01	0.111130E+01	0.426600E+00	0.814900E+00	0.426000E-01
11.400	0.334600E+00	0.173200E+01	0.135900E+01	0.107830E+01	0.425500E+00	0.844200E+00	0.312000E-01
11.600	0.309700E+00	0.176410E+01	0.132610E+01	0.104370E+01	0.422500E+00	0.874600E+00	0.219000E-01
11.800	0.288300E+00	0.180040E+01	0.129040E+01	0.100780E+01	0.418800E+00	0.905700E+00	0.150000E-01
12.000	0.270000E+00	0.184050E+01	0.125160E+01	0.970300E+00	0.414900E+00	0.937300E+00	0.109000E-01
12.200	0.254300E+00	0.188360E+01	0.120960E+01	0.931400E+00	0.411300E+00	0.968900E+00	0.101000E-01
12.400	0.240700E+00	0.192930E+01	0.116440E+01	0.891100E+00	0.408300E+00	0.100030E+01	0.131000E-01
12.600	0.228700E+00	0.197660E+01	0.111610E+01	0.849300E+00	0.406000E+00	0.103110E+01	0.204000E-01
12.800	0.217900E+00	0.202490E+01	0.106520E+01	0.806100E+00	0.404500E+00	0.106100E+01	0.326000E-01
13.000	0.208100E+00	0.207330E+01	0.101220E+01	0.761400E+00	0.403800E+00	0.108970E+01	0.504000E-01
13.200	0.198900E+00	0.212110E+01	0.957700E+00	0.715400E+00	0.403900E+00	0.111690E+01	0.748000E-01
13.400	0.190200E+00	0.216770E+01	0.902500E+00	0.668000E+00	0.404700E+00	0.114250E+01	0.106700E+00
13.600	0.181900E+00	0.221250E+01	0.847200E+00	0.619300E+00	0.406200E+00	0.116640E+01	0.147300E+00
13.800	0.173900E+00	0.225520E+01	0.792700E+00	0.569500E+00	0.408400E+00	0.118830E+01	0.197600E+00
14.000	0.166100E+00	0.229540E+01	0.739500E+00	0.518900E+00	0.411200E+00	0.120830E+01	0.256600E+00
14.200	0.158500E+00	0.233300E+01	0.688300E+00	0.467500E+00	0.414600E+00	0.122630E+01	0.319700E+00
14.400	0.151100E+00	0.236780E+01	0.639500E+00	0.415600E+00	0.418700E+00	0.124240E+01	0.378500E+00
14.600	0.143900E+00	0.240000E+01	0.593400E+00	0.363600E+00	0.423300E+00	0.125650E+01	0.425000E+00
15.000	0.130200E+00	0.245640E+01	0.510400E+00	0.260100E+00	0.434200E+00	0.127950E+01	0.475000E+00
15.200	0.123700E+00	0.248100E+01	0.473400E+00	0.209100E+00	0.440500E+00	0.128840E+01	0.485000E+00
15.800	0.105700E+00	0.254240E+01	0.380200E+00	0.619000E-01	0.463000E+00	0.130620E+01	0.489500E+00
16.400	0.900000E-01	0.258870E+01	0.309700E+00	-0.734000E-01	0.491000E+00	0.131220E+01	0.483200E+00
16.600	0.852000E-01	0.260150E+01	0.290400E+00	-0.115400E+00	0.501600E+00	0.131190E+01	0.480700E+00
16.800	0.808000E-01	0.261330E+01	0.272700E+00	-0.155600E+00	0.513000E+00	0.131060E+01	0.478100E+00
17.000	0.766000E-01	0.262400E+01	0.256700E+00	-0.194100E+00	0.525200E+00	0.130830E+01	0.475200E+00
17.200	0.726000E-01	0.263390E+01	0.242000E+00	-0.230900E+00	0.538300E+00	0.130510E+01	0.471300E+00
17.400	0.689000E-01	0.264300E+01	0.228600E+00	-0.265800E+00	0.552300E+00	0.130090E+01	0.464400E+00
17.600	0.653000E-01	0.265140E+01	0.216300E+00	-0.298800E+00	0.567300E+00	0.129590E+01	0.448100E+00
17.800	0.620000E-01	0.265920E+01	0.205000E+00	-0.329800E+00	0.583400E+00	0.129000E+01	0.365100E+00
18.000	0.589000E-01	0.266640E+01	0.194600E+00	-0.358800E+00	0.600700E+00	0.128320E+01	0.794400E+00
18.200	0.559000E-01	0.267310E+01	0.185000E+00	-0.385600E+00	0.619400E+00	0.127550E+01	0.841300E+00
18.400	0.532000E-01	0.267930E+01	0.176100E+00	-0.410100E+00	0.639500E+00	0.126690E+01	0.837800E+00
18.600	0.506000E-01	0.268510E+01	0.167900E+00	-0.432200E+00	0.661300E+00	0.125750E+01	0.828000E+00
18.800	0.481000E-01	0.269060E+01	0.160200E+00	-0.451700E+00	0.684800E+00	0.124710E+01	0.816100E+00
19.000	0.458000E-01	0.269570E+01	0.153100E+00	-0.468300E+00	0.710200E+00	0.123580E+01	0.803300E+00
19.200	0.436000E-01	0.270050E+01	0.146400E+00	-0.481800E+00	0.737500E+00	0.122350E+01	0.790100E+00
19.600	0.396000E-01	0.270930E+01	0.134300E+00	-0.498400E+00	0.798500E+00	0.119590E+01	0.763900E+00
19.800	0.377000E-01	0.271340E+01	0.128800E+00	-0.500900E+00	0.832100E+00	0.118060E+01	0.751100E+00
20.000	0.360000E-01	0.271720E+01	0.123600E+00	-0.499300E+00	0.867600E+00	0.116420E+01	0.738600E+00
20.200	0.343000E-01	0.272090E+01	0.118800E+00	-0.493400E+00	0.904800E+00	0.114680E+01	0.726300E+00
20.400	0.327000E-01	0.272430E+01	0.114100E+00	-0.483100E+00	0.943400E+00	0.112830E+01	0.714500E+00
20.600	0.311000E-01	0.272760E+01	0.109800E+00	-0.468700E+00	0.982900E+00	0.110870E+01	0.703000E+00

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3	20.800	0.297000E-01	0.273080E+01	0.105600E+00	-0.450500E+00	0.102290E+01	0.108810E+01	0.691900E+00
4	21.000	0.283000E-01	0.273380E+01	0.101700E+00	-0.429000E+00	0.106260E+01	0.106640E+01	0.681100E+00
5	21.200	0.269000E-01	0.273660E+01	0.979000E-01	-0.404900E+00	0.110170E+01	0.104380E+01	0.670800E+00
6	25.000	0.940000E-02	0.277180E+01	0.516000E-01	-0.435000E-01	0.154010E+01	0.549200E+00	0.541400E+00
7	25.200	0.880000E-02	0.277290E+01	0.500000E-01	-0.357000E-01	0.155020E+01	0.526400E+00	0.537600E+00
8	25.400	0.830000E-02	0.277400E+01	0.485000E-01	-0.286000E-01	0.155940E+01	0.504300E+00	0.534200E+00
9	26.200	0.640000E-02	0.277780E+01	0.430000E-01	-0.640000E-02	0.158970E+01	0.423300E+00	0.522800E+00
10	26.600	0.560000E-02	0.277950E+01	0.406000E-01	0.160000E-02	0.160140E+01	0.387400E+00	0.519400E+00
11	26.800	0.530000E-02	0.278030E+01	0.394000E-01	0.510000E-02	0.160660E+01	0.370500E+00	0.518100E+00
12	29.800	0.200000E-02	0.278980E+01	0.261000E-01	0.265000E-01	0.164880E+01	0.191900E+00	0.537400E+00
13	30.600	0.150000E-02	0.279180E+01	0.235000E-01	0.271000E-01	0.165350E+01	0.162900E+00	0.557400E+00
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For Peer Review Only

Table 7: $(3)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	3-1	3-2	3-3	3-4	3-5	3-6	3-7
3.800	0.138210E+01	0.186060E+01	-0.653900E+00	-0.456560E+01	-0.235150E+01	0.123180E+01	-0.159680E+01
4.000	0.132970E+01	0.192280E+01	-0.682400E+00	-0.431730E+01	-0.308810E+01	0.560100E+00	-0.394100E+00
4.200	0.126850E+01	0.197730E+01	-0.711700E+00	-0.415050E+01	-0.310600E+01	0.332200E+00	0.736000E-01
4.600	0.111900E+01	0.203150E+01	-0.748500E+00	-0.377230E+01	-0.260020E+01	0.324700E+00	0.344800E+00
4.800	0.102730E+01	0.202560E+01	-0.756500E+00	-0.352930E+01	-0.225250E+01	0.618200E+00	0.238700E+00
5.000	0.920300E+00	0.199920E+01	-0.766000E+00	-0.326050E+01	-0.189710E+01	0.870600E+00	-0.785000E-01
5.200	0.791300E+00	0.195330E+01	-0.795400E+00	-0.296720E+01	-0.155040E+01	0.110230E+01	-0.860000E-01
5.400	0.630600E+00	0.188480E+01	-0.959100E+00	-0.260190E+01	-0.121310E+01	0.132690E+01	-0.662000E-01
5.600	0.426300E+00	0.178610E+01	-0.243730E+01	-0.631000E-01	-0.877900E+00	0.155130E+01	-0.231000E-01
5.800	0.170900E+00	0.164750E+01	-0.201840E+01	-0.348700E+00	-0.544100E+00	0.177280E+01	0.424000E-01
6.000	0.129500E+00	0.146500E+01	-0.158120E+01	-0.235600E+00	-0.240100E+00	0.197530E+01	0.124700E+00
6.200	0.447500E+00	0.125040E+01	-0.113520E+01	-0.570000E-02	-0.224000E-01	0.213500E+01	0.213000E+00
6.400	0.746900E+00	0.103010E+01	-0.723100E+00	0.302900E+00	0.824000E-01	0.223780E+01	0.294300E+00
6.600	0.100460E+01	0.828800E+00	-0.379700E+00	0.597400E+01	0.946000E-01	0.228770E+01	0.361000E+00
6.800	0.121630E+01	0.658200E+00	-0.115600E+00	0.863400E+00	0.440000E-01	0.229820E+01	0.411800E+00
7.000	0.138780E+01	0.519000E+00	-0.738000E-01	0.109560E+01	-0.295000E-01	0.228140E+01	0.448500E+00
7.200	0.152700E+01	0.407600E+00	-0.198100E+00	0.129530E+01	-0.645000E-01	0.224980E+01	0.473800E+00
7.400	0.164080E+01	0.319100E+00	-0.266200E+00	0.146460E+01	0.218000E-01	0.221440E+01	0.489800E+00
7.600	0.173430E+01	0.249300E+00	-0.285700E+00	0.160450E+01	0.810000E-01	0.217710E+01	0.498200E+00
7.800	0.181100E+01	0.194800E+00	-0.264300E+00	0.171480E+01	0.208500E+00	0.213730E+01	0.499800E+00
8.200	0.192380E+01	0.121000E+00	-0.132900E+00	0.184050E+01	0.471200E+00	0.205700E+01	0.485800E+00
8.400	0.196330E+01	0.978000E-01	-0.432000E-01	0.185240E+01	0.601700E+00	0.202060E+01	0.470900E+00
8.600	0.199330E+01	0.817000E-01	0.488000E-01	0.182870E+01	0.733800E+00	0.198790E+01	0.450900E+00
8.800	0.201470E+01	0.717000E-01	0.135200E+00	0.176920E+01	0.868400E+00	0.195880E+01	0.425800E+00
9.000	0.202850E+01	0.667000E-01	0.211200E+00	0.167430E+01	0.100400E+01	0.193320E+01	0.395300E+00
9.200	0.203540E+01	0.662000E-01	0.274500E+00	0.154610E+01	0.113540E+01	0.191030E+01	0.359400E+00
9.400	0.203620E+01	0.694000E-01	0.324900E+00	0.139070E+01	0.125300E+01	0.188940E+01	0.317500E+00
9.600	0.203170E+01	0.761000E-01	0.363600E+00	0.121950E+01	0.134540E+01	0.186980E+01	0.269600E+00
9.800	0.202250E+01	0.858000E-01	0.391900E+00	0.104790E+01	0.140460E+01	0.185080E+01	0.214700E+00
10.000	0.200920E+01	0.984000E-01	0.411400E+00	0.889600E+00	0.142940E+01	0.183170E+01	0.153300E+00
10.200	0.199260E+01	0.113700E+00	0.423600E+00	0.752200E+00	0.142470E+01	0.181180E+01	0.863000E-01
10.400	0.197300E+01	0.131400E+00	0.429800E+00	0.637700E+00	0.139770E+01	0.179080E+01	0.157000E-01
10.600	0.195110E+01	0.151100E+00	0.430900E+00	0.543900E+00	0.135570E+01	0.176820E+01	-0.556000E-01
10.800	0.192720E+01	0.172600E+00	0.427900E+00	0.467500E+00	0.130420E+01	0.174410E+01	-0.123800E+00
11.000	0.190190E+01	0.195200E+00	0.421600E+00	0.404900E+00	0.124760E+01	0.171850E+01	-0.185400E+00
11.200	0.187550E+01	0.218500E+00	0.412400E+00	0.353000E+00	0.118870E+01	0.169180E+01	-0.237900E+00
11.400	0.184850E+01	0.241500E+00	0.401000E+00	0.309500E+00	0.112960E+01	0.166430E+01	-0.279900E+00
11.600	0.182130E+01	0.263700E+00	0.387800E+00	0.272200E+00	0.107180E+01	0.163660E+01	-0.311000E+00
11.800	0.179420E+01	0.284200E+00	0.373300E+00	0.239700E+00	0.101630E+01	0.160900E+01	-0.331500E+00
12.000	0.176780E+01	0.302300E+00	0.357700E+00	0.210800E+00	0.963600E+00	0.158170E+01	-0.342400E+00
12.200	0.174230E+01	0.317500E+00	0.341600E+00	0.184800E+00	0.914100E+00	0.155510E+01	-0.345000E+00
12.400	0.171810E+01	0.329500E+00	0.325100E+00	0.160800E+00	0.868100E+00	0.152900E+01	-0.340800E+00
12.600	0.169550E+01	0.338100E+00	0.308600E+00	0.138500E+00	0.825700E+00	0.150360E+01	-0.331100E+00
12.800	0.167460E+01	0.343200E+00	0.292300E+00	0.117200E+00	0.786900E+00	0.147870E+01	-0.317600E+00
13.000	0.165560E+01	0.345100E+00	0.276300E+00	0.969000E-01	0.751500E+00	0.145440E+01	-0.301300E+00
13.200	0.163840E+01	0.343900E+00	0.261000E+00	0.772000E-01	0.719500E+00	0.143050E+01	-0.283100E+00
13.400	0.162310E+01	0.340100E+00	0.246400E+00	0.580000E-01	0.690800E+00	0.140730E+01	-0.263400E+00
13.600	0.160960E+01	0.333900E+00	0.232500E+00	0.392000E-01	0.665100E+00	0.138460E+01	-0.242200E+00
13.800	0.159780E+01	0.325800E+00	0.219400E+00	0.207000E-01	0.642200E+00	0.136270E+01	-0.218400E+00
14.000	0.158760E+01	0.316200E+00	0.207100E+00	0.250000E-02	0.621900E+00	0.134160E+01	-0.190700E+00
14.200	0.157890E+01	0.305300E+00	0.195700E+00	-0.154000E-01	0.604000E+00	0.132140E+01	-0.157800E+00
14.400	0.157150E+01	0.293500E+00	0.185000E+00	-0.329000E-01	0.588400E+00	0.130210E+01	-0.120500E+00
14.600	0.156540E+01	0.281200E+00	0.175000E+00	-0.500000E-01	0.574800E+00	0.128390E+01	-0.817000E-01
15.000	0.155610E+01	0.255400E+00	0.156900E+00	-0.828000E-01	0.552900E+00	0.125080E+01	-0.124000E-01
15.200	0.155290E+01	0.242500E+00	0.148800E+00	-0.983000E-01	0.544300E+00	0.123600E+01	0.162000E-01
15.800	0.154730E+01	0.204700E+00	0.127400E+00	-0.140100E+00	0.526500E+00	0.119830E+01	0.834000E-01
16.400	0.154650E+01	0.170100E+00	0.109800E+00	-0.173200E+00	0.517900E+00	0.117040E+01	0.133300E+00
16.600	0.154690E+01	0.159400E+00	0.104600E+00	-0.181900E+00	0.516700E+00	0.116310E+01	0.147800E+00
16.800	0.154770E+01	0.149200E+00	0.998000E-01	-0.189400E+00	0.516200E+00	0.115680E+01	0.161800E+00
17.000	0.154870E+01	0.139500E+00	0.952000E-01	-0.195500E+00	0.516300E+00	0.115140E+01	0.175900E+00
17.200	0.154990E+01	0.130300E+00	0.909000E-01	-0.200200E+00	0.517000E+00	0.114680E+01	0.191400E+00
17.400	0.155130E+01	0.121500E+00	0.869000E-01	-0.203400E+00	0.518100E+00	0.114310E+01	0.211100E+00
17.600	0.155280E+01	0.113200E+00	0.831000E-01	-0.205100E+00	0.519700E+00	0.114030E+01	0.245400E+00
17.800	0.155440E+01	0.105400E+00	0.796000E-01	-0.205200E+00	0.521700E+00	0.113820E+01	0.377200E+00
18.000	0.155620E+01	0.979000E-01	0.762000E-01	-0.203500E+00	0.524000E+00	0.113690E+01	0.141820E+01
18.200	0.155800E+01	0.909000E-01	0.731000E-01	-0.200100E+00	0.526500E+00	0.113630E+01	0.141980E+01
18.400	0.155980E+01	0.843000E-01	0.702000E-01	-0.194700E+00	0.529300E+00	0.113640E+01	0.142260E+01
18.600	0.156170E+01	0.781000E-01	0.674000E-01	-0.187500E+00	0.532100E+00	0.113730E+01	0.142600E+01
18.800	0.156360E+01	0.722000E-01	0.648000E-01	-0.178200E+00	0.534900E+00	0.113880E+01	0.142940E+01
19.000	0.156550E+01	0.667000E-01	0.623000E-01	-0.166800E+00	0.537600E+00	0.114100E+01	0.143250E+01
19.200	0.156740E+01	0.615000E-01	0.600000E-01	-0.153300E+00	0.540100E+00	0.114380E+01	0.143540E+01
19.600	0.157120E+01	0.520000E-01	0.557000E-01	-0.119500E+00	0.543700E+00	0.115150E+01	0.143980E+01
19.800	0.157310E+01	0.477000E-01	0.538000E-01	-0.994000E-01	0.544500E+00	0.115620E+01	0.144140E+01
20.000	0.157490E+01	0.436000E-01	0.519000E-01	-0.772000E-01	0.544100E+00	0.116150E+01	0.144250E+01
20.200	0.157670E+01	0.398000E-01	0.502000E-01	-0.532000E-01	0.542600E+00	0.116740E+01	0.144320E+01

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3	20.400	0.157840E+01	0.362000E-01	0.485000E-01	-0.276000E-01	0.539500E+00	0.117380E+01	0.144350E+01
4	20.600	0.158010E+01	0.329000E-01	0.469000E-01	-0.800000E-03	0.534800E+00	0.118080E+01	0.144320E+01
5	20.800	0.158170E+01	0.297000E-01	0.454000E-01	0.267000E-01	0.528200E+00	0.118830E+01	0.144250E+01
6	21.000	0.158330E+01	0.267000E-01	0.440000E-01	0.544000E-01	0.519800E+00	0.119640E+01	0.144130E+01
7	21.200	0.158490E+01	0.239000E-01	0.426000E-01	0.818000E-01	0.509500E+00	0.120480E+01	0.143950E+01
8	25.000	0.160480E+01	0.650000E-02	0.253000E-01	0.351200E+00	0.217700E+00	0.143670E+01	0.127810E+01
9	25.200	0.160540E+01	0.730000E-02	0.247000E-01	0.356100E+00	0.206100E+00	0.145210E+01	0.126140E+01
10	25.400	0.160600E+01	0.800000E-02	0.241000E-01	0.360500E+00	0.195100E+00	0.146760E+01	0.124400E+01
11	26.200	0.160820E+01	0.105000E-01	0.219000E-01	0.375000E+00	0.157100E+00	0.153100E+01	0.116550E+01
12	26.600	0.160920E+01	0.114000E-01	0.210000E-01	0.380600E+00	0.141300E+00	0.156250E+01	0.112240E+01
13	26.800	0.160960E+01	0.119000E-01	0.205000E-01	0.383100E+00	0.134100E+00	0.157800E+01	0.110000E+01
14	29.800	0.161460E+01	0.146000E-01	0.148000E-01	0.405200E+00	0.673000E-01	0.175940E+01	0.755500E+00
15	30.600	0.161560E+01	0.147000E-01	0.137000E-01	0.408200E+00	0.582000E-01	0.178800E+01	0.676100E+00
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For Peer Review Only

Table 8: $(4)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	4-1	4-2	4-3	4-4	4-5	4-6	4-7
3.800	0.376500E+00	-0.108820E+01	0.737300E+00	0.619500E+00	-0.472900E+01	-0.167980E+01	-0.581200E+00
4.000	0.149300E+00	-0.861600E+00	0.612600E+00	0.170430E+01	-0.519210E+01	-0.595800E+00	-0.926000E+00
4.200	0.620000E-02	-0.919300E+00	0.631500E+00	0.156930E+01	-0.552830E+01	-0.516000E-01	-0.955200E+00
4.600	-0.356700E+00	-0.125560E+01	0.832800E+00	0.167500E+00	-0.635830E+01	-0.153000E-01	-0.150300E+00
4.800	-0.534300E+00	-0.144770E+01	0.100400E+01	0.722400E+00	-0.665080E+01	0.337800E+00	-0.527900E+00
5.000	-0.682800E+00	-0.161840E+01	0.123590E+01	0.146320E+01	-0.680970E+01	0.545400E+00	-0.105570E+01
5.200	-0.799700E+00	-0.176280E+01	0.157190E+01	0.198230E+01	-0.686900E+01	0.597600E+00	-0.832400E+00
5.400	-0.892600E+00	-0.188290E+01	0.217190E+01	0.218680E+01	-0.684220E+01	0.531100E+00	-0.665800E+00
5.600	-0.969100E+00	-0.198070E+01	0.316160E+01	0.184220E+01	-0.670120E+01	0.385800E+00	-0.546400E+00
5.800	-0.103520E+01	-0.205850E+01	0.307690E+01	0.309170E+01	-0.637120E+01	0.191600E+00	-0.461600E+00
6.000	-0.109480E+01	-0.211820E+01	0.314110E+01	0.414010E+01	-0.577670E+01	0.282000E-01	-0.402800E+00
6.200	-0.115100E+01	-0.216160E+01	0.318330E+01	0.505240E+01	-0.500130E+01	-0.252900E+00	-0.362600E+00
6.400	-0.120550E+01	-0.219040E+01	0.319210E+01	0.565920E+01	-0.428870E+01	-0.460700E+00	-0.336700E+00
6.600	-0.125970E+01	-0.220640E+01	0.316740E+01	0.599690E+01	-0.378380E+01	-0.628200E+00	-0.322700E+00
6.800	-0.131470E+01	-0.221090E+01	0.310940E+01	0.617050E+01	-0.348810E+01	-0.737300E+00	-0.318900E+00
7.000	-0.137090E+01	-0.220540E+01	0.301770E+01	0.625530E+01	-0.335160E+01	-0.800100E+00	-0.324200E+00
7.200	-0.142890E+01	-0.219130E+01	0.289080E+01	0.629400E+01	-0.331260E+01	-0.874100E+00	-0.338100E+00
7.400	-0.148880E+01	-0.216960E+01	0.272720E+01	0.630910E+01	-0.332160E+01	-0.100360E+01	-0.359500E+00
7.600	-0.155060E+01	-0.214160E+01	0.252690E+01	0.631070E+01	-0.335910E+01	-0.116670E+01	-0.387000E+00
7.800	-0.161450E+01	-0.2120830E+01	0.229280E+01	0.630020E+01	-0.342860E+01	-0.131790E+01	-0.419200E+00
8.200	-0.174750E+01	-0.202900E+01	0.175880E+01	0.621820E+01	-0.369800E+01	-0.150630E+01	-0.490100E+00
8.400	-0.181610E+01	-0.198460E+01	0.148680E+01	0.612510E+01	-0.390930E+01	-0.154260E+01	-0.524900E+00
8.600	-0.188580E+01	-0.193780E+01	0.123170E+01	0.597990E+01	-0.417660E+01	-0.154740E+01	-0.556900E+00
8.800	-0.195610E+01	-0.188920E+01	0.100460E+01	0.576840E+01	-0.450130E+01	-0.152650E+01	-0.584100E+00
9.000	-0.202660E+01	-0.183880E+01	0.810600E+00	0.547700E+01	-0.487940E+01	-0.148460E+01	-0.604600E+00
9.200	-0.209670E+01	-0.178700E+01	0.650100E+00	0.509710E+01	-0.529570E+01	-0.142570E+01	-0.616400E+00
9.400	-0.216620E+01	-0.173340E+01	0.519800E+00	0.463520E+01	-0.572010E+01	-0.135330E+01	-0.617400E+00
9.600	-0.223430E+01	-0.167790E+01	0.415400E+00	0.412020E+01	-0.611300E+01	-0.126990E+01	-0.605500E+00
9.800	-0.230070E+01	-0.161970E+01	0.332000E+00	0.359880E+01	-0.644090E+01	-0.117800E+01	-0.578800E+00
10.000	-0.236450E+01	-0.155780E+01	0.265400E+00	0.311590E+01	-0.668990E+01	-0.107910E+01	-0.535400E+00
10.200	-0.242470E+01	-0.149030E+01	0.212600E+00	0.269840E+01	-0.686380E+01	-0.974300E+00	-0.474500E+00
10.400	-0.247890E+01	-0.141420E+01	0.171300E+00	0.235170E+01	-0.697300E+01	-0.863200E+00	-0.397400E+00
10.600	-0.252170E+01	-0.132290E+01	0.141200E+00	0.206580E+01	-0.702140E+01	-0.742700E+00	-0.308200E+00
10.800	-0.253450E+01	-0.119860E+01	0.124700E+00	0.181540E+01	-0.698050E+01	-0.602000E+00	-0.213700E+00
11.000	-0.243490E+01	-0.978800E+00	0.132000E+00	0.153180E+01	-0.666470E+01	-0.403800E+00	-0.125100E+00
11.200	-0.187850E+01	-0.487400E+00	0.177500E+00	0.100960E+01	-0.522540E+01	-0.688000E-01	-0.731000E-01
11.400	-0.103940E+01	-0.249000E-01	0.207600E+00	0.448000E+00	-0.307890E+01	0.207300E+00	0.969000E-01
11.600	-0.605800E+00	0.245000E+00	0.210500E+00	0.210300E+00	-0.197780E+01	0.301400E+00	0.149000E+00
11.800	-0.391300E+00	0.340100E+00	0.208000E+00	0.120400E+00	-0.144480E+01	0.331400E+00	0.200200E+00
12.000	-0.264800E+00	0.387800E+00	0.204700E+00	0.864000E-01	-0.114000E+01	0.339700E+00	0.245500E+00
12.200	-0.180300E+00	0.413100E+00	0.201400E+00	0.770000E-01	-0.942000E+00	0.338700E+00	0.284000E+00
12.400	-0.119000E+00	0.425900E+00	0.198100E+00	0.797000E-01	-0.801600E+00	0.332800E+00	0.315700E+00
12.600	-0.723000E-01	0.430900E+00	0.194800E+00	0.887000E-01	-0.695700E+00	0.324200E+00	0.340500E+00
12.800	-0.358000E-01	0.430600E+00	0.191300E+00	0.100900E+00	-0.612400E+00	0.313800E+00	0.358100E+00
13.000	-0.670000E-02	0.426600E+00	0.187600E+00	0.114500E+00	-0.544700E+00	0.302400E+00	0.368100E+00
13.200	0.166000E-01	0.419900E+00	0.183600E+00	0.128600E+00	-0.488400E+00	0.290500E+00	0.369400E+00
13.400	0.353000E-01	0.411400E+00	0.179200E+00	0.142300E+00	-0.440800E+00	0.278500E+00	0.360600E+00
13.600	0.502000E-01	0.401500E+00	0.174300E+00	0.155200E+00	-0.400000E+00	0.266800E+00	0.339500E+00
13.800	0.620000E-01	0.390600E+00	0.169000E+00	0.167200E+00	-0.364600E+00	0.255500E+00	0.303300E+00
14.000	0.711000E-01	0.379300E+00	0.163400E+00	0.178000E+00	-0.333800E+00	0.244800E+00	0.250200E+00
14.200	0.780000E-01	0.367500E+00	0.157400E+00	0.187500E+00	-0.306700E+00	0.234800E+00	0.181500E+00
14.400	0.831000E-01	0.355700E+00	0.151100E+00	0.195700E+00	-0.282800E+00	0.225400E+00	0.105300E+00
14.600	0.867000E-01	0.343900E+00	0.144700E+00	0.202500E+00	-0.261500E+00	0.216800E+00	0.339000E-01
15.000	0.903000E-01	0.321000E+00	0.131800E+00	0.212600E+00	-0.225400E+00	0.201400E+00	-0.650000E-01
15.200	0.907000E-01	0.309900E+00	0.125400E+00	0.215900E+00	-0.209900E+00	0.194600E+00	-0.924000E-01
15.800	0.884000E-01	0.279100E+00	0.107300E+00	0.220300E+00	-0.171200E+00	0.176700E+00	-0.123400E+00
16.400	0.831000E-01	0.251800E+00	0.917000E-01	0.218200E+00	-0.140300E+00	0.161700E+00	-0.120900E+00
16.600	0.810000E-01	0.243500E+00	0.871000E-01	0.216500E+00	-0.131300E+00	0.157100E+00	-0.117600E+00
16.800	0.789000E-01	0.235500E+00	0.827000E-01	0.214500E+00	-0.122600E+00	0.152600E+00	-0.113800E+00
17.000	0.767000E-01	0.228000E+00	0.787000E-01	0.212100E+00	-0.114300E+00	0.148300E+00	-0.109800E+00
17.200	0.746000E-01	0.220700E+00	0.749000E-01	0.209500E+00	-0.106300E+00	0.144100E+00	-0.105800E+00
17.400	0.724000E-01	0.213800E+00	0.714000E-01	0.206700E+00	-0.986000E-01	0.139900E+00	-0.101800E+00
17.600	0.703000E-01	0.207200E+00	0.681000E-01	0.203700E+00	-0.910000E-01	0.135800E+00	-0.979000E-01
17.800	0.683000E-01	0.200900E+00	0.650000E-01	0.200600E+00	-0.835000E-01	0.131700E+00	-0.930000E-01
18.000	0.663000E-01	0.194800E+00	0.622000E-01	0.197500E+00	-0.762000E-01	0.127700E+00	0.800000E-02
18.200	0.644000E-01	0.189000E+00	0.595000E-01	0.194200E+00	-0.690000E-01	0.123700E+00	0.130000E-02
18.400	0.626000E-01	0.183500E+00	0.570000E-01	0.190800E+00	-0.617000E-01	0.119700E+00	0.260000E-02
18.600	0.609000E-01	0.178200E+00	0.547000E-01	0.187400E+00	-0.545000E-01	0.115800E+00	0.290000E-02
18.800	0.592000E-01	0.173100E+00	0.525000E-01	0.184000E+00	-0.473000E-01	0.111900E+00	0.280000E-02
19.000	0.576000E-01	0.168200E+00	0.504000E-01	0.180400E+00	-0.400000E-01	0.107900E+00	0.270000E-02
19.200	0.561000E-01	0.163500E+00	0.485000E-01	0.176800E+00	-0.327000E-01	0.104100E+00	0.260000E-02
19.600	0.532000E-01	0.154600E+00	0.449000E-01	0.169200E+00	-0.179000E-01	0.964000E-01	0.240000E-02
19.800	0.519000E-01	0.150500E+00	0.433000E-01	0.165200E+00	-0.104000E-01	0.926000E-01	0.240000E-02
20.000	0.506000E-01	0.146400E+00	0.418000E-01	0.161000E+00	-0.300000E-02	0.888000E-01	0.250000E-02
20.200	0.493000E-01	0.142500E+00	0.403000E-01	0.156600E+00	0.450000E-02	0.851000E-01	0.270000E-02

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3	20.400	0.481000E-01	0.138800E+00	0.390000E-01	0.152000E+00	0.117000E-01	0.814000E-01	0.290000E-02
4	20.600	0.470000E-01	0.135200E+00	0.376000E-01	0.147200E+00	0.188000E-01	0.777000E-01	0.320000E-02
5	20.800	0.459000E-01	0.131700E+00	0.364000E-01	0.142100E+00	0.255000E-01	0.742000E-01	0.350000E-02
6	21.000	0.448000E-01	0.128300E+00	0.352000E-01	0.136900E+00	0.319000E-01	0.707000E-01	0.380000E-02
7	21.200	0.438000E-01	0.125000E+00	0.341000E-01	0.131500E+00	0.377000E-01	0.672000E-01	0.410000E-02
8	25.000	0.281000E-01	0.790000E-01	0.192000E-01	0.554000E-01	0.607000E-01	0.225000E-01	0.105000E-01
9	25.200	0.275000E-01	0.772000E-01	0.186000E-01	0.532000E-01	0.597000E-01	0.214000E-01	0.106000E-01
10	25.400	0.268000E-01	0.755000E-01	0.181000E-01	0.512000E-01	0.587000E-01	0.203000E-01	0.108000E-01
11	26.200	0.243000E-01	0.691000E-01	0.162000E-01	0.442000E-01	0.544000E-01	0.168000E-01	0.108000E-01
12	26.600	0.231000E-01	0.661000E-01	0.153000E-01	0.413000E-01	0.523000E-01	0.154000E-01	0.110000E-01
13	26.800	0.226000E-01	0.647000E-01	0.149000E-01	0.399000E-01	0.512000E-01	0.148000E-01	0.111000E-01
14	29.800	0.155000E-01	0.475000E-01	0.990000E-02	0.261000E-01	0.373000E-01	0.960000E-02	0.124000E-01
15	30.000	0.151000E-01	0.466000E-01	0.210000E-02	0.254000E-01	0.366000E-01	0.940000E-02	0.126000E-01
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For Peer Review Only

The following tables display the dipole moment functions between the three lowest Π states with the seven lowest Π states of NaCs, for singlet (Tables 1 to 3) and triplet (Tables 4 to 6) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 2.54158059 Debye. All states are identified with their number with increasing energy. When both indexes are equal, the function corresponds to the permanent dipole moment.

Table 1: (1) Π - (1-7) Π transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.800	0.222000E-01	0.731400E+00	-0.194750E+01	-0.699700E+00	-0.510600E+00	-0.465500E+00	-0.182470E+01
4.000	-0.732000E-01	0.952600E+00	-0.193630E+01	-0.668000E+00	-0.382200E+00	-0.757500E+00	-0.168790E+01
4.200	-0.222200E+00	0.116300E+01	-0.189760E+01	-0.679900E+00	0.586000E-01	-0.103420E+01	-0.158870E+01
4.600	-0.116660E+01	0.108150E+01	-0.179160E+01	-0.111910E+01	0.480500E+00	-0.177360E+01	-0.758200E+00
4.800	-0.167200E+01	0.427700E+00	-0.150170E+01	-0.162400E+01	0.122250E+01	-0.143830E+01	-0.414000E-01
5.000	-0.117500E+01	0.145010E+01	-0.107250E+01	-0.174700E+01	0.154410E+01	-0.875500E+00	0.274900E+00
5.200	-0.811800E+00	0.184520E+01	-0.767700E+00	-0.172540E+01	0.165010E+01	-0.647600E+00	0.384000E+00
5.400	-0.574600E+00	0.208740E+01	-0.532400E+00	-0.164060E+01	0.172550E+01	-0.547700E+00	0.459400E+00
5.600	-0.394700E+00	0.227780E+01	-0.354300E+00	-0.149870E+01	0.179870E+01	-0.497500E+00	0.530100E+00
5.800	-0.243900E+00	0.244150E+01	-0.236000E+00	-0.131390E+01	0.186470E+01	-0.467100E+00	0.598500E+00
6.000	-0.109200E+00	0.258580E+01	-0.175200E+00	-0.111280E+01	0.191140E+01	-0.444400E+00	0.664200E+00
6.200	0.160000E-01	0.271280E+01	-0.164300E+00	-0.922600E+00	0.193240E+01	-0.420600E+00	0.720100E+00
6.400	0.135700E+00	0.282280E+01	-0.193100E+00	-0.759100E+00	0.193170E+01	-0.393300E+00	0.763100E+00
6.600	0.252000E+00	0.291570E+01	-0.252100E+00	-0.625200E+00	0.191770E+01	-0.362000E+00	0.791400E+00
6.800	0.366200E+00	0.299140E+01	-0.332700E+00	-0.516100E+00	0.189790E+01	-0.327400E+00	0.806700E+00
7.000	0.478500E+00	0.305020E+01	-0.428200E+00	-0.425100E+00	0.187660E+01	-0.289500E+00	0.809500E+00
7.200	0.588100E+00	0.309250E+01	-0.532800E+00	-0.346400E+00	0.185550E+01	-0.248200E+00	0.801100E+00
7.400	0.694000E+00	0.311950E+01	-0.641400E+00	-0.275700E+00	0.183490E+01	-0.203700E+00	0.782700E+00
7.600	0.794200E+00	0.313260E+01	-0.749400E+00	-0.210300E+00	0.181410E+01	-0.156000E+00	0.755500E+00
7.800	0.886600E+00	0.313420E+01	-0.852300E+00	-0.148800E+00	0.179240E+01	-0.105600E+00	0.720300E+00
8.200	0.103900E+01	0.311530E+01	-0.102380E+01	-0.357000E-01	0.174300E+01	-0.210000E-02	0.629800E+00
8.400	0.109490E+01	0.310300E+01	-0.108220E+01	0.153000E-01	0.171460E+01	0.580000E-01	0.576300E+00
8.600	0.113540E+01	0.309480E+01	-0.111500E+01	0.620000E-01	0.168370E+01	0.114300E+00	0.519000E+00
8.800	0.116000E+01	0.309490E+01	-0.111630E+01	0.103500E+00	0.165050E+01	0.170200E+00	0.459700E+00
9.000	0.116870E+01	0.310610E+01	-0.108090E+01	0.139200E+00	0.161590E+01	0.225000E+00	0.400500E+00
9.200	0.116250E+01	0.312870E+01	-0.100560E+01	0.168700E+00	0.158050E+01	0.278200E+00	0.342000E+00
9.400	0.114270E+01	0.315960E+01	-0.891800E+00	0.191800E+00	0.154550E+01	0.329400E+00	0.286000E+00
9.600	0.111120E+01	0.319270E+01	-0.747600E+00	0.208200E+00	0.151160E+01	0.378000E+00	0.235000E+00
9.800	0.106990E+01	0.322120E+01	-0.587700E+00	0.218200E+00	0.147980E+01	0.423300E+00	0.190900E+00
10.000	0.102120E+01	0.324080E+01	-0.428600E+00	0.222200E+00	0.145090E+01	0.465300E+00	0.154600E+00
10.200	0.967100E+00	0.325050E+01	-0.283300E+00	0.220700E+00	0.142530E+01	0.503800E+00	0.126800E+00
10.400	0.909500E+00	0.325190E+01	-0.158600E+00	0.214700E+00	0.140350E+01	0.538700E+00	0.108400E+00
10.600	0.850200E+00	0.324730E+01	-0.555000E-01	0.205000E+00	0.138530E+01	0.569800E+00	0.100100E+00
10.800	0.790600E+00	0.323890E+01	0.279000E-01	0.192300E+00	0.137090E+01	0.597300E+00	0.102400E+00
11.000	0.732000E+00	0.322820E+01	0.947000E-01	0.177400E+00	0.136010E+01	0.621000E+00	0.115900E+00
11.200	0.675200E+00	0.321610E+01	0.148200E+00	0.160900E+00	0.135280E+01	0.641100E+00	0.141700E+00
11.400	0.620900E+00	0.320340E+01	0.191100E+00	0.143400E+00	0.134880E+01	0.657300E+00	0.180900E+00
11.600	0.569700E+00	0.319030E+01	0.225400E+00	0.125400E+00	0.134800E+01	0.669800E+00	0.235000E+00
11.800	0.521700E+00	0.317730E+01	0.252800E+00	0.107300E+00	0.135030E+01	0.678500E+00	0.305700E+00
12.000	0.477300E+00	0.316430E+01	0.274500E+00	0.894000E-01	0.135570E+01	0.683100E+00	0.394700E+00
12.200	0.436500E+00	0.315170E+01	0.291500E+00	0.722000E-01	0.136390E+01	0.683700E+00	0.502600E+00
12.400	0.399100E+00	0.313950E+01	0.304500E+00	0.561000E-01	0.137490E+01	0.680000E+00	0.627700E+00
12.600	0.365100E+00	0.312780E+01	0.314000E+00	0.412000E-01	0.138850E+01	0.672000E+00	0.762900E+00
12.800	0.334400E+00	0.311650E+01	0.320600E+00	0.278000E-01	0.140440E+01	0.659800E+00	0.895400E+00
13.000	0.306800E+00	0.310570E+01	0.324500E+00	0.161000E-01	0.142230E+01	0.643300E+00	0.101070E+01
13.200	0.282000E+00	0.309550E+01	0.326200E+00	0.610000E-02	0.144180E+01	0.622700E+00	0.109940E+01
13.400	0.259900E+00	0.308570E+01	0.326000E+00	-0.230000E-02	0.146240E+01	0.598300E+00	0.116030E+01
13.600	0.240300E+00	0.307650E+01	0.324200E+00	-0.910000E-02	0.148370E+01	0.570400E+00	0.119800E+01
13.800	0.222800E+00	0.306770E+01	0.320900E+00	-0.146000E-01	0.150530E+01	0.539600E+00	0.121840E+01
14.000	0.207400E+00	0.305940E+01	0.316500E+00	-0.189000E-01	0.152670E+01	0.506500E+00	0.122660E+01
14.200	0.193700E+00	0.305160E+01	0.311100E+00	-0.223000E-01	0.154750E+01	0.471600E+00	0.122630E+01
14.400	0.181800E+00	0.304410E+01	0.304900E+00	-0.249000E-01	0.156750E+01	0.435800E+00	0.122020E+01
14.600	0.171200E+00	0.303700E+01	0.298000E+00	-0.269000E-01	0.158630E+01	0.399600E+00	0.120930E+01
15.000	0.153900E+00	0.302380E+01	0.282900E+00	-0.297000E-01	0.161980E+01	0.329000E+00	0.118180E+01
15.200	0.146900E+00	0.301760E+01	0.274900E+00	-0.307000E-01	0.163440E+01	0.295600E+00	0.116720E+01
15.600	0.135300E+00	0.300610E+01	0.258400E+00	-0.323000E-01	0.165910E+01	0.235000E+00	0.113740E+01
15.800	0.130700E+00	0.300070E+01	0.250000E+00	-0.330000E-01	0.166930E+01	0.208100E+00	0.112340E+01
16.000	0.126600E+00	0.299550E+01	0.241700E+00	-0.336000E-01	0.167830E+01	0.183800E+00	0.111040E+01
16.200	0.123100E+00	0.299060E+01	0.233400E+00	-0.341000E-01	0.168610E+01	0.161900E+00	0.109860E+01
16.400	0.120000E+00	0.298570E+01	0.225300E+00	-0.345000E-01	0.169270E+01	0.142500E+00	0.108800E+01
16.600	0.117300E+00	0.298110E+01	0.217200E+00	-0.349000E-01	0.169840E+01	0.125300E+00	0.107890E+01
16.800	0.115000E+00	0.297660E+01	0.209400E+00	-0.351000E-01	0.170320E+01	0.110200E+00	0.107130E+01
17.000	0.113000E+00	0.297220E+01	0.201700E+00	-0.353000E-01	0.170720E+01	0.969000E-01	0.106500E+01
17.200	0.111200E+00	0.296800E+01	0.194200E+00	-0.353000E-01	0.171050E+01	0.854000E-01	0.106010E+01
17.400	0.109600E+00	0.296390E+01	0.186900E+00	-0.352000E-01	0.171320E+01	0.754000E-01	0.105650E+01
17.600	0.108200E+00	0.295990E+01	0.179900E+00	-0.349000E-01	0.171540E+01	0.668000E-01	0.105400E+01

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3	17.800	0.106900E+00	0.295610E+01	0.173100E+00	-0.345000E-01	0.171710E+01	0.592000E-01	0.105260E+01
4	18.000	0.105800E+00	0.295230E+01	0.166500E+00	-0.339000E-01	0.171850E+01	0.527000E-01	0.105220E+01
5	18.200	0.104700E+00	0.294870E+01	0.160200E+00	-0.332000E-01	0.171950E+01	0.471000E-01	0.105260E+01
6	18.400	0.103800E+00	0.294510E+01	0.154100E+00	-0.323000E-01	0.172020E+01	0.421000E-01	0.105400E+01
7	18.600	0.102900E+00	0.294170E+01	0.148200E+00	-0.313000E-01	0.172060E+01	0.378000E-01	0.105580E+01
8	18.800	0.102000E+00	0.293830E+01	0.142600E+00	-0.302000E-01	0.172080E+01	0.340000E-01	0.105820E+01
9	19.000	0.101200E+00	0.293510E+01	0.137200E+00	-0.289000E-01	0.172090E+01	0.307000E-01	0.106100E+01
10	19.200	0.100500E+00	0.293190E+01	0.132000E+00	-0.275000E-01	0.172080E+01	0.278000E-01	0.106430E+01
11	19.400	0.989000E-01	0.292580E+01	0.122200E+00	-0.244000E-01	0.172020E+01	0.229000E-01	0.107150E+01
12	19.600	0.982000E-01	0.292290E+01	0.117700E+00	-0.226000E-01	0.171980E+01	0.208000E-01	0.107550E+01
13	20.000	0.974000E-01	0.292010E+01	0.113300E+00	-0.209000E-01	0.171940E+01	0.189000E-01	0.107970E+01
14	20.200	0.967000E-01	0.291730E+01	0.109100E+00	-0.190000E-01	0.171880E+01	0.172000E-01	0.108400E+01
15	20.400	0.959000E-01	0.291470E+01	0.105100E+00	-0.171000E-01	0.171830E+01	0.155000E-01	0.108850E+01
16	20.600	0.951000E-01	0.291210E+01	0.101200E+00	-0.151000E-01	0.171770E+01	0.140000E-01	0.109300E+01
17	20.800	0.943000E-01	0.290960E+01	0.976000E-01	-0.132000E-01	0.171700E+01	0.126000E-01	0.109760E+01
18	21.000	0.935000E-01	0.290710E+01	0.940000E-01	-0.112000E-01	0.171640E+01	0.113000E-01	0.110220E+01
19	21.200	0.927000E-01	0.290480E+01	0.907000E-01	0.920000E-02	0.171570E+01	0.100000E-01	0.110690E+01
20	25.000	0.759000E-01	0.287140E+01	0.477000E-01	0.218000E-01	0.170500E+01	0.920000E-02	0.119380E+01
21	25.200	0.750000E-01	0.287020E+01	0.462000E-01	0.228000E-01	0.170450E+01	0.990000E-02	0.119800E+01
22	25.400	0.741000E-01	0.286890E+01	0.448000E-01	0.238000E-01	0.170410E+01	0.106000E-01	0.120210E+01
23	26.200	0.706000E-01	0.286440E+01	0.397000E-01	0.269000E-01	0.170260E+01	0.130000E-01	0.121770E+01
24	26.600	0.689000E-01	0.286230E+01	0.374000E-01	0.281000E-01	0.170180E+01	0.141000E-01	0.122480E+01
25	26.800	0.681000E-01	0.286130E+01	0.363000E-01	0.286000E-01	0.170150E+01	0.145000E-01	0.122830E+01
26	27.000	0.673000E-01	0.286030E+01	0.352000E-01	0.291000E-01	0.170110E+01	0.149000E-01	0.123160E+01
27	27.400	0.656000E-01	0.285850E+01	0.333000E-01	0.299000E-01	0.170040E+01	0.157000E-01	0.123770E+01
28	29.600	0.576000E-01	0.285010E+01	0.245000E-01	0.314000E-01	0.169650E+01	0.173000E-01	0.126120E+01
29	29.800	0.569000E-01	0.284950E+01	0.239000E-01	0.314000E-01	0.169610E+01	0.173000E-01	0.126250E+01
30	30.600	0.543000E-01	0.284710E+01	0.215000E-01	0.311000E-01	0.169450E+01	0.169000E-01	0.126620E+01
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Table 2: $(2)^1\Pi - (2-7)^1\Pi$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.800	-0.280000E-02	-0.966400E+00	-0.114400E+01	0.177640E+01	-0.129670E+01	-0.149600E+00
4.000	0.332000E-01	-0.953100E+00	-0.129840E+01	0.200180E+01	-0.588500E+00	-0.739000E-01
4.200	0.146800E+00	-0.881900E+00	-0.137480E+01	0.197330E+01	-0.279900E+00	-0.146300E+00
4.600	0.115180E+01	-0.256600E+00	-0.122400E+01	0.176380E+01	0.342400E+00	-0.543600E+00
4.800	0.175450E+01	-0.539800E+00	-0.540100E+00	0.131530E+01	0.150490E+01	-0.670000E-01
5.000	0.138550E+01	-0.795100E+00	-0.174000E-01	0.895100E+00	0.193840E+01	-0.355000E-01
5.200	0.116650E+01	-0.693200E+00	0.290500E+00	0.708500E+00	0.210880E+01	0.370000E-01
5.400	0.107490E+01	-0.471800E+00	0.457900E+00	0.602400E+00	0.224240E+01	0.119300E+00
5.600	0.102960E+01	-0.194900E+00	0.565400E+00	0.523700E+00	0.236450E+01	0.214000E+00
5.800	0.992700E+00	0.106100E+00	0.629100E+00	0.456800E+00	0.247400E+01	0.318800E+00
6.000	0.945400E+00	0.410200E+00	0.662800E+00	0.398000E+00	0.256980E+01	0.429900E+00
6.200	0.878500E+00	0.702000E+00	0.679400E+00	0.344900E+00	0.265070E+01	0.537000E+00
6.400	0.788800E+00	0.971100E+00	0.689900E+00	0.292300E+00	0.272050E+01	0.634900E+00
6.600	0.676800E+00	0.121040E+01	0.701000E+00	0.234100E+00	0.278200E+01	0.719000E+00
6.800	0.545700E+00	0.141630E+01	0.716000E+00	0.165800E+00	0.284010E+01	0.792000E+00
7.000	0.400000E+00	0.158730E+01	0.735600E+00	0.853000E-01	0.289570E+01	0.853700E+00
7.200	0.244800E+00	0.172350E+01	0.758900E+00	-0.640000E-02	0.294950E+01	0.905800E+00
7.400	0.859000E-01	0.182650E+01	0.784200E+00	-0.106700E+00	0.300120E+01	0.948800E+00
7.600	-0.702000E-01	0.189850E+01	0.809800E+00	-0.212100E+00	0.304970E+01	0.983200E+00
7.800	-0.217100E+00	0.194210E+01	0.834100E+00	-0.318100E+00	0.309360E+01	0.100790E+01
8.200	-0.455600E+00	0.195300E+01	0.873800E+00	-0.511000E+00	0.316000E+01	0.102270E+01
8.400	-0.533500E+00	0.192370E+01	0.887300E+00	-0.586000E+00	0.317780E+01	0.100880E+01
8.600	-0.575500E+00	0.187170E+01	0.895100E+00	-0.637300E+00	0.318100E+01	0.976900E+00
8.800	-0.577100E+00	0.179590E+01	0.895200E+00	-0.657400E+00	0.316520E+01	0.926400E+00
9.000	-0.537200E+00	0.169350E+01	0.885300E+00	-0.638800E+00	0.312560E+01	0.856500E+00
9.200	-0.459800E+00	0.156160E+01	0.862400E+00	-0.576500E+00	0.305560E+01	0.767700E+00
9.400	-0.356300E+00	0.140000E+01	0.824000E+00	-0.470600E+00	0.295290E+01	0.665700E+00
9.600	-0.244400E+00	0.121460E+01	0.769800E+00	-0.328700E+00	0.281860E+01	0.556200E+00
9.800	-0.142300E+00	0.101960E+01	0.703200E+00	-0.166900E+00	0.266110E+01	0.450400E+00
10.000	-0.618000E-01	0.833100E+00	0.630600E+00	0.400000E-02	0.249430E+01	0.357700E+00
10.200	-0.530000E-02	0.670200E+00	0.559200E+00	-0.144100E+00	0.233170E+01	0.284600E+00
10.400	0.311000E-01	0.538200E+00	0.494700E+00	-0.268800E+00	0.218330E+01	0.233400E+00
10.600	0.533000E-01	0.437400E+00	0.440700E+00	-0.367500E+00	0.205350E+01	0.203600E+00
10.800	0.664000E-01	0.363700E+00	0.398700E+00	-0.441800E+00	0.194320E+01	0.193000E+00
11.000	0.739000E-01	0.311600E+00	0.369000E+00	-0.495000E+00	0.185120E+01	0.199700E+00
11.200	0.778000E-01	0.275900E+00	0.350900E+00	-0.530600E+00	0.177500E+01	0.222400E+00
11.400	0.792000E-01	0.252000E+00	0.343400E+00	-0.552100E+00	0.171270E+01	0.260900E+00
11.600	0.788000E-01	0.236500E+00	0.345300E+00	-0.562100E+00	0.166220E+01	0.316200E+00
11.800	0.769000E-01	0.226600E+00	0.355200E+00	-0.562800E+00	0.162200E+01	0.390600E+00
12.000	0.737000E-01	0.220400E+00	0.371600E+00	-0.555900E+00	0.159090E+01	0.487500E+00
12.200	0.693000E-01	0.216300E+00	0.393300E+00	-0.542600E+00	0.156820E+01	0.610700E+00
12.400	0.639000E-01	0.213400E+00	0.418800E+00	-0.523900E+00	0.155310E+01	0.761600E+00
12.600	0.576000E-01	0.211000E+00	0.447000E+00	-0.500900E+00	0.154530E+01	0.935500E+00
12.800	0.506000E-01	0.208600E+00	0.476800E+00	-0.474100E+00	0.154450E+01	0.111830E+01
13.000	0.430000E-01	0.206000E+00	0.507300E+00	-0.444400E+00	0.155040E+01	0.128930E+01
13.200	0.350000E-01	0.203000E+00	0.537500E+00	-0.412300E+00	0.156280E+01	0.143100E+01
13.400	0.266000E-01	0.199600E+00	0.566800E+00	-0.378500E+00	0.158140E+01	0.153670E+01
13.600	0.181000E-01	0.195700E+00	0.594700E+00	-0.343600E+00	0.160580E+01	0.160820E+01
13.800	0.950000E-02	0.191300E+00	0.620900E+00	-0.308300E+00	0.163550E+01	0.165060E+01
14.000	0.900000E-03	0.186600E+00	0.645000E+00	-0.273000E+00	0.166980E+01	0.166970E+01
14.200	-0.750000E-02	0.181600E+00	0.667100E+00	-0.238300E+00	0.170790E+01	0.167020E+01
14.400	-0.158000E-01	0.176400E+00	0.686900E+00	-0.204500E+00	0.174890E+01	0.165550E+01
14.600	-0.238000E-01	0.171000E+00	0.704700E+00	-0.172000E+00	0.179160E+01	0.162900E+01
15.000	-0.389000E-01	0.160000E+00	0.734400E+00	-0.111800E+00	0.187870E+01	0.154740E+01
15.200	-0.459000E-01	0.154500E+00	0.746600E+00	-0.845000E-01	0.192110E+01	0.149640E+01
15.600	-0.588000E-01	0.143700E+00	0.766500E+00	-0.354000E-01	0.199970E+01	0.138140E+01
15.800	-0.646000E-01	0.138500E+00	0.774400E+00	-0.138000E-01	0.203470E+01	0.132060E+01
16.000	-0.700000E-01	0.133400E+00	0.781200E+00	0.600000E-02	0.206640E+01	0.125900E+01
16.200	-0.751000E-01	0.128500E+00	0.787000E+00	0.241000E-01	0.209470E+01	0.119760E+01
16.400	-0.797000E-01	0.123800E+00	0.791800E+00	0.404000E-01	0.211970E+01	0.113710E+01
16.600	-0.840000E-01	0.119200E+00	0.795900E+00	0.551000E-01	0.214140E+01	0.107820E+01
16.800	-0.879000E-01	0.114800E+00	0.799200E+00	0.683000E-01	0.216010E+01	0.102120E+01
17.000	-0.915000E-01	0.110700E+00	0.801900E+00	0.801000E-01	0.217590E+01	0.966700E+00
17.200	-0.948000E-01	0.106700E+00	0.804000E+00	0.905000E-01	0.218930E+01	0.914900E+00
17.400	-0.977000E-01	0.102900E+00	0.805600E+00	0.997000E-01	0.220030E+01	0.865800E+00
17.600	-0.100300E+00	0.992000E-01	0.806700E+00	0.107800E+00	0.220930E+01	0.819600E+00
17.800	-0.102700E+00	0.958000E-01	0.807400E+00	0.114800E+00	0.221650E+01	0.776200E+00
18.000	-0.104800E+00	0.925000E-01	0.807800E+00	0.120900E+00	0.222220E+01	0.735500E+00
18.200	-0.106700E+00	0.893000E-01	0.807800E+00	0.126000E+00	0.222650E+01	0.697600E+00
18.400	-0.108300E+00	0.864000E-01	0.807600E+00	0.130400E+00	0.222980E+01	0.662400E+00
18.600	-0.109700E+00	0.835000E-01	0.807200E+00	0.134000E+00	0.223210E+01	0.629700E+00
18.800	-0.110900E+00	0.808000E-01	0.806500E+00	0.136900E+00	0.223350E+01	0.599400E+00
19.000	-0.112000E+00	0.783000E-01	0.805600E+00	0.139200E+00	0.223420E+01	0.571400E+00
19.200	-0.112800E+00	0.758000E-01	0.804600E+00	0.141000E+00	0.223430E+01	0.545600E+00
19.600	-0.114100E+00	0.713000E-01	0.802100E+00	0.143000E+00	0.223320E+01	0.499600E+00
19.800	-0.114500E+00	0.692000E-01	0.800700E+00	0.143300E+00	0.223210E+01	0.479300E+00
20.000	-0.114800E+00	0.672000E-01	0.799200E+00	0.143300E+00	0.223080E+01	0.460500E+00

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3	20.200	-0.115000E+00	0.652000E-01	0.797700E+00	0.143000E+00	0.222930E+01	0.443200E+00
4	20.400	-0.115100E+00	0.634000E-01	0.796100E+00	0.142300E+00	0.222760E+01	0.427300E+00
5	20.600	-0.115100E+00	0.617000E-01	0.794500E+00	0.141400E+00	0.222580E+01	0.412600E+00
6	20.800	-0.115000E+00	0.600000E-01	0.792800E+00	0.140300E+00	0.222400E+01	0.399100E+00
7	21.000	-0.114800E+00	0.584000E-01	0.791200E+00	0.138900E+00	0.222200E+01	0.386700E+00
8	21.200	-0.114500E+00	0.568000E-01	0.789500E+00	0.137300E+00	0.222010E+01	0.375200E+00
9	25.000	-0.101600E+00	0.360000E-01	0.762500E+00	0.939000E-01	0.219450E+01	0.263800E+00
10	25.200	-0.100700E+00	0.353000E-01	0.761500E+00	0.916000E-01	0.219400E+01	0.260900E+00
11	25.400	-0.998000E-01	0.345000E-01	0.760500E+00	0.893000E-01	0.219350E+01	0.258200E+00
12	26.200	-0.963000E-01	0.317000E-01	0.757000E+00	0.808000E-01	0.219250E+01	0.248700E+00
13	26.600	-0.945000E-01	0.304000E-01	0.755400E+00	0.768000E-01	0.219230E+01	0.244000E+00
14	26.800	-0.936000E-01	0.298000E-01	0.754600E+00	0.749000E-01	0.219220E+01	0.241700E+00
15	27.000	-0.928000E-01	0.292000E-01	0.753900E+00	0.730000E-01	0.219230E+01	0.239400E+00
16	27.400	-0.910000E-01	0.280000E-01	0.752600E+00	0.694000E-01	0.219240E+01	0.235000E+00
17	29.600	-0.817000E-01	0.226000E-01	0.746600E+00	0.538000E-01	0.219520E+01	0.212100E+00
18	29.800	-0.809000E-01	0.222000E-01	0.746200E+00	0.528000E-01	0.219550E+01	0.210100E+00
19	30.600	-0.778000E-01	0.206000E-01	0.744500E+00	0.489000E-01	0.219670E+01	0.202200E+00
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For Peer Review Only

Table 3: $(3)^1\Pi - (3-7)^1\Pi$ transitions

R	3-3	3-4	3-5	3-6	3-7
3.800	-0.168310E+01	0.123570E+01	0.216870E+01	-0.165970E+01	-0.389000E+00
4.000	-0.161110E+01	0.145190E+01	0.138160E+01	-0.224890E+01	-0.316300E+00
4.200	-0.152380E+01	0.163740E+01	0.299200E+00	-0.256020E+01	-0.268600E+00
4.600	-0.151050E+01	0.208560E+01	0.302200E+00	-0.236620E+01	-0.557700E+00
4.800	-0.166660E+01	0.233890E+01	0.446800E+00	-0.181810E+01	-0.731300E+00
5.000	-0.195880E+01	0.257270E+01	0.617600E+00	-0.163540E+01	-0.262500E+00
5.200	-0.236990E+01	0.273940E+01	0.817800E+00	-0.166350E+01	-0.411200E+00
5.400	-0.284040E+01	0.279500E+01	0.105170E+01	-0.174220E+01	-0.421700E+00
5.600	-0.328820E+01	0.272570E+01	0.131430E+01	-0.180930E+01	-0.410400E+00
5.800	-0.364870E+01	0.255580E+01	0.158580E+01	-0.184070E+01	-0.414900E+00
6.000	-0.389540E+01	0.233100E+01	0.183790E+01	-0.183270E+01	-0.447500E+00
6.200	-0.403200E+01	0.209790E+01	0.204960E+01	-0.178940E+01	-0.501200E+00
6.400	-0.407680E+01	0.188710E+01	0.221640E+01	-0.172030E+01	-0.568200E+00
6.600	-0.405170E+01	0.171070E+01	0.234400E+01	-0.163410E+01	-0.638800E+00
6.800	-0.397800E+01	0.156770E+01	0.244130E+01	-0.154130E+01	-0.710200E+00
7.000	-0.387260E+01	0.145310E+01	0.251510E+01	-0.144790E+01	-0.777000E+00
7.200	-0.375030E+01	0.136060E+01	0.257140E+01	-0.136070E+01	-0.839400E+00
7.400	-0.362180E+01	0.128610E+01	0.261510E+01	-0.128440E+01	-0.896600E+00
7.600	-0.349610E+01	0.122650E+01	0.265050E+01	-0.122340E+01	-0.949200E+00
7.800	-0.337950E+01	0.118070E+01	0.268170E+01	-0.118140E+01	-0.997500E+00
8.200	-0.319420E+01	0.113130E+01	0.274630E+01	-0.116730E+01	-0.108190E+01
8.400	-0.313350E+01	0.113020E+01	0.278580E+01	-0.120160E+01	-0.111850E+01
8.600	-0.309860E+01	0.114750E+01	0.283340E+01	-0.126810E+01	-0.115170E+01
8.800	-0.309130E+01	0.118540E+01	0.289010E+01	-0.136910E+01	-0.117990E+01
9.000	-0.311080E+01	0.124570E+01	0.295490E+01	-0.150580E+01	-0.120140E+01
9.200	-0.315160E+01	0.132940E+01	0.302470E+01	-0.167660E+01	-0.121670E+01
9.400	-0.320150E+01	0.143480E+01	0.309260E+01	-0.187290E+01	-0.122150E+01
9.600	-0.324290E+01	0.155730E+01	0.315000E+01	-0.207890E+01	-0.121010E+01
9.800	-0.325790E+01	0.169000E+01	0.318830E+01	-0.227610E+01	-0.118030E+01
10.000	-0.323570E+01	0.182500E+01	0.320290E+01	-0.244850E+01	-0.113400E+01
10.200	-0.317470E+01	0.195570E+01	0.319320E+01	-0.258710E+01	-0.107450E+01
10.400	-0.308050E+01	0.207620E+01	0.316200E+01	-0.269030E+01	-0.100660E+01
10.600	-0.296060E+01	0.218200E+01	0.311310E+01	-0.276160E+01	-0.934400E+00
10.800	-0.282210E+01	0.226920E+01	0.305050E+01	-0.280620E+01	-0.860800E+00
11.000	-0.267050E+01	0.233460E+01	0.297770E+01	-0.282920E+01	-0.787000E+00
11.200	-0.251010E+01	0.237600E+01	0.289750E+01	-0.283500E+01	-0.712700E+00
11.400	-0.234460E+01	0.239220E+01	0.281210E+01	-0.282710E+01	-0.636100E+00
11.600	-0.217700E+01	0.238320E+01	0.272300E+01	-0.280810E+01	-0.553400E+00
11.800	-0.201010E+01	0.234990E+01	0.263140E+01	-0.277980E+01	-0.459400E+00
12.000	-0.184620E+01	0.229400E+01	0.253770E+01	-0.274350E+01	-0.347000E+00
12.200	-0.168770E+01	0.221820E+01	0.244220E+01	-0.270010E+01	-0.208000E+00
12.400	-0.153610E+01	0.212540E+01	0.234490E+01	-0.265010E+01	-0.352000E-01
12.600	-0.139290E+01	0.201890E+01	0.224560E+01	-0.259390E+01	0.172700E+00
12.800	-0.125900E+01	0.190230E+01	0.214420E+01	-0.253150E+01	0.405700E+00
13.000	-0.113500E+01	0.177890E+01	0.204070E+01	-0.246280E+01	0.643000E+00
13.200	-0.102110E+01	0.165210E+01	0.193520E+01	-0.238760E+01	0.862200E+00
13.400	-0.917200E+00	0.152490E+01	0.182810E+01	-0.230610E+01	0.105080E+01
13.600	-0.823000E+00	0.139960E+01	0.171990E+01	-0.221820E+01	0.120600E+01
13.800	-0.738000E+00	0.127840E+01	0.161140E+01	-0.212400E+01	0.133020E+01
14.000	-0.661700E+00	0.116270E+01	0.150360E+01	-0.202410E+01	0.142810E+01
14.200	-0.593400E+00	0.105370E+01	0.139730E+01	-0.191910E+01	0.150370E+01
14.400	-0.532400E+00	0.952000E+00	0.129350E+01	-0.180990E+01	0.156010E+01
14.600	-0.478000E+00	0.857900E+00	0.119300E+01	-0.169750E+01	0.159790E+01
15.000	-0.386600E+00	0.692300E+00	0.100490E+01	-0.146940E+01	0.163020E+01
15.200	-0.348300E+00	0.620300E+00	0.918200E+00	-0.135670E+01	0.162820E+01
15.600	-0.284100E+00	0.495800E+00	0.760900E+00	-0.114010E+01	0.158970E+01
15.800	-0.257100E+00	0.442300E+00	0.690400E+00	-0.103830E+01	0.155600E+01
16.000	-0.233100E+00	0.394100E+00	-0.625200E+00	-0.942000E+00	0.151440E+01
16.200	-0.211700E+00	-0.350700E+00	0.565100E+00	-0.851700E+00	0.146650E+01
16.400	-0.192600E+00	-0.311600E+00	0.510000E+00	-0.767600E+00	0.141320E+01
16.600	-0.175500E+00	-0.276400E+00	0.459500E+00	-0.689800E+00	0.135600E+01
16.800	-0.160100E+00	-0.244800E+00	0.413400E+00	-0.618300E+00	0.129510E+01
17.000	-0.146400E+00	-0.216400E+00	0.371500E+00	-0.552900E+00	0.123350E+01
17.200	-0.133900E+00	-0.190900E+00	0.333300E+00	-0.493100E+00	0.117110E+01
17.400	-0.122800E+00	-0.168000E+00	0.298600E+00	-0.438800E+00	0.110890E+01
17.600	-0.112700E+00	-0.147500E+00	0.267300E+00	-0.389600E+00	0.104740E+01
17.800	-0.103500E+00	-0.129200E+00	0.238800E+00	-0.345200E+00	0.987200E+00
18.000	-0.952000E-01	-0.112800E+00	0.213200E+00	-0.305000E+00	0.928800E+00
18.200	-0.877000E-01	-0.981000E-01	0.190000E+00	-0.269000E+00	0.872500E+00
18.400	-0.808000E-01	-0.850000E-01	0.169100E+00	-0.236300E+00	0.819600E+00
18.600	-0.745000E-01	-0.733000E-01	0.150300E+00	-0.207000E+00	0.768300E+00
18.800	-0.688000E-01	-0.629000E-01	0.133400E+00	-0.180700E+00	0.719800E+00
19.000	-0.635000E-01	-0.536000E-01	0.118200E+00	-0.157100E+00	0.673900E+00
19.200	-0.587000E-01	-0.453000E-01	0.104600E+00	-0.135800E+00	0.631600E+00
19.600	-0.501000E-01	-0.316000E-01	0.815000E-01	-0.999000E-01	0.552700E+00
19.800	-0.463000E-01	-0.258000E-01	0.717000E-01	-0.847000E-01	0.517000E+00
20.000	-0.428000E-01	-0.208000E-01	0.630000E-01	-0.712000E-01	0.483600E+00

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3	20.200	-0.395000E-01	-0.163000E-01	0.552000E-01	-0.592000E-01	0.452400E+00
4	20.400	-0.365000E-01	-0.124000E-01	0.484000E-01	-0.484000E-01	0.423400E+00
5	20.600	-0.337000E-01	-0.900000E-02	0.422000E-01	-0.389000E-01	0.396400E+00
6	20.800	-0.311000E-01	-0.600000E-02	0.368000E-01	-0.304000E-01	0.371200E+00
7	21.000	-0.287000E-01	-0.340000E-02	0.320000E-01	-0.229000E-01	0.347800E+00
8	21.200	-0.264000E-01	-0.120000E-02	0.278000E-01	-0.163000E-01	0.326000E+00
9	25.000	-0.290000E-02	0.990000E-02	0.200000E-02	0.228000E-01	0.109400E+00
10	25.200	-0.230000E-02	0.980000E-02	0.190000E-02	0.228000E-01	0.104100E+00
11	25.400	-0.170000E-02	0.960000E-02	0.190000E-02	0.227000E-01	0.991000E-01
12	26.200	0.200000E-03	0.900000E-02	0.190000E-02	0.221000E-01	0.819000E-01
13	26.600	0.100000E-02	0.860000E-02	0.200000E-02	0.213000E-01	0.750000E-01
14	26.800	0.140000E-02	0.840000E-02	0.210000E-02	0.210000E-01	0.718000E-01
15	27.000	0.170000E-02	0.830000E-02	0.220000E-02	0.205000E-01	0.688000E-01
16	27.400	0.240000E-02	0.790000E-02	0.240000E-02	0.197000E-01	0.633000E-01
17	29.600	0.480000E-02	0.600000E-02	0.360000E-02	0.148000E-01	0.424000E-01
18	29.800	0.490000E-02	0.580000E-02	0.360000E-02	0.144000E-01	0.411000E-01
19	30.600	0.540000E-02	0.520000E-02	0.390000E-02	0.128000E-01	0.363000E-01
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For Peer Review Only

Table 4: $(1)^3\Pi - (1-7)^3\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.800	-0.222360E+01	0.610000E-01	-0.248910E+01	-0.829900E+00	0.954900E+00	-0.302200E+00	-0.218100E+00
4.000	-0.227730E+01	0.127300E+00	-0.243270E+01	-0.966200E+00	0.906400E+00	-0.580700E+00	-0.101180E+01
4.200	-0.230990E+01	0.181200E+00	-0.237290E+01	-0.101840E+01	0.945500E+00	-0.756800E+00	-0.899800E+00
4.600	-0.233160E+01	0.278300E+00	-0.224270E+01	-0.107610E+01	0.106110E+01	-0.948700E+00	-0.431600E+00
4.800	-0.232830E+01	0.331000E+00	-0.217420E+01	-0.109890E+01	0.112500E+01	-0.951100E+00	-0.102400E+00
5.000	-0.232040E+01	0.390000E+00	-0.210470E+01	-0.111750E+01	0.120010E+01	-0.938100E+00	-0.492300E+00
5.200	-0.231100E+01	0.455900E+00	-0.203720E+01	-0.111980E+01	0.129480E+01	-0.922000E+00	-0.519700E+00
5.400	-0.230260E+01	0.528000E+00	-0.201250E+01	-0.101220E+01	0.141950E+01	-0.905300E+00	-0.541100E+00
5.600	-0.229690E+01	0.605600E+00	-0.163270E+01	-0.140110E+01	0.158570E+01	-0.888500E+00	-0.564200E+00
5.800	-0.229500E+01	0.687400E+00	-0.144030E+01	-0.139130E+01	0.179600E+01	-0.872500E+00	-0.590400E+00
6.000	-0.229750E+01	0.772300E+00	-0.144000E+01	-0.109970E+01	0.201880E+01	-0.859200E+00	-0.620400E+00
6.200	-0.230440E+01	0.859300E+00	-0.146400E+01	-0.750700E+00	0.218920E+01	-0.852900E+00	-0.654300E+00
6.400	-0.231550E+01	0.947800E+00	-0.149440E+01	-0.456600E+00	0.228050E+01	-0.860900E+00	-0.691700E+00
6.600	-0.233060E+01	0.103710E+01	-0.152560E+01	-0.260700E+00	0.231710E+01	-0.893800E+00	-0.731800E+00
6.800	-0.234900E+01	0.112690E+01	-0.155490E+01	-0.153200E+00	0.232460E+01	-0.959600E+00	-0.772900E+00
7.000	-0.237030E+01	0.121680E+01	-0.157960E+01	-0.115300E+00	0.232210E+01	-0.104350E+01	-0.812900E+00
7.200	-0.239380E+01	0.130670E+01	-0.159710E+01	-0.133800E+00	0.233780E+01	-0.109600E+01	-0.849500E+00
7.400	-0.241900E+01	0.139630E+01	-0.160390E+01	-0.200800E+00	0.239250E+01	-0.107950E+01	-0.880900E+00
7.600	-0.244530E+01	0.148550E+01	-0.159630E+01	-0.311400E+00	0.247580E+01	-0.100710E+01	-0.905600E+00
7.800	-0.247200E+01	0.157430E+01	-0.156980E+01	-0.461100E+00	0.256540E+01	-0.913300E+00	-0.922600E+00
8.200	-0.252390E+01	0.175060E+01	-0.144750E+01	-0.857100E+00	0.271220E+01	-0.734400E+00	-0.931900E+00
8.400	-0.254750E+01	0.183840E+01	-0.135050E+01	-0.109190E+01	0.275550E+01	-0.658700E+00	-0.923300E+00
8.600	-0.256830E+01	0.192620E+01	-0.123360E+01	-0.134460E+01	0.276980E+01	-0.590700E+00	-0.905100E+00
8.800	-0.258530E+01	0.201430E+01	-0.110260E+01	-0.161220E+01	0.274680E+01	-0.528600E+00	-0.876600E+00
9.000	-0.259730E+01	0.210320E+01	-0.964200E+00	-0.189120E+01	0.267780E+01	-0.470700E+00	-0.836400E+00
9.200	-0.260290E+01	0.219310E+01	-0.824100E+00	-0.217440E+01	0.255680E+01	-0.415900E+00	-0.783000E+00
9.400	-0.260080E+01	0.228440E+01	-0.686900E+00	-0.244720E+01	0.238540E+01	-0.363400E+00	-0.714100E+00
9.600	-0.258940E+01	0.237740E+01	-0.555700E+00	-0.268950E+01	0.217790E+01	-0.312700E+00	-0.627000E+00
9.800	-0.256710E+01	0.247220E+01	-0.432400E+00	-0.288340E+01	0.195840E+01	-0.263500E+00	-0.519000E+00
10.000	-0.253220E+01	0.256860E+01	-0.317700E+00	-0.302050E+01	0.175190E+01	-0.215900E+00	-0.387600E+00
10.200	-0.248340E+01	0.266590E+01	-0.211900E+00	-0.310240E+01	0.157490E+01	-0.170000E+00	-0.232300E+00
10.400	-0.241920E+01	0.276350E+01	-0.114900E+00	-0.313610E+01	0.143320E+01	-0.126000E+00	-0.553000E-01
10.600	-0.233900E+01	0.285980E+01	-0.262000E-01	-0.312990E+01	0.132530E+01	-0.837000E-01	0.137000E+00
10.800	-0.224250E+01	0.295320E+01	0.544000E-01	-0.309110E+01	0.124590E+01	-0.429000E-01	0.335300E+00
11.000	-0.213020E+01	0.304150E+01	0.127200E+00	-0.302590E+01	0.118880E+01	0.290000E-02	0.529400E+00
11.200	-0.200380E+01	0.312250E+01	0.192200E+00	-0.294000E+01	0.114780E+01	0.372000E-01	0.710600E+00
11.400	-0.186540E+01	0.319420E+01	0.249500E+00	-0.283810E+01	0.111790E+01	0.785000E-01	0.872700E+00
11.600	-0.171840E+01	0.325480E+01	0.299000E+00	-0.272480E+01	0.109500E+01	0.121900E+00	0.101270E+01
11.800	-0.156640E+01	0.330330E+01	0.340700E+00	-0.260430E+01	0.107610E+01	0.168400E+00	0.112940E+01
12.000	-0.141340E+01	0.333930E+01	0.374600E+00	-0.248050E+01	0.105920E+01	0.218300E+00	0.122280E+01
12.200	-0.126300E+01	0.336310E+01	0.400900E+00	-0.235650E+01	0.104310E+01	0.271300E+00	0.129370E+01
12.400	-0.111850E+01	0.337580E+01	0.419900E+00	-0.223540E+01	0.102730E+01	0.326800E+00	0.134290E+01
12.600	-0.982200E+00	0.337890E+01	0.432100E+00	-0.211900E+01	0.101150E+01	0.384000E+00	0.137100E+01
12.800	-0.855900E+00	0.337400E+01	0.438200E+00	-0.200910E+01	0.995900E+00	0.441600E+00	0.137820E+01
13.000	-0.740600E+00	0.336280E+01	0.439100E+00	-0.190670E+01	0.980600E+00	0.498500E+00	0.136420E+01
13.200	-0.636600E+00	0.334690E+01	0.435400E+00	-0.181220E+01	0.965800E+00	0.553600E+00	0.132700E+01
13.400	-0.543600E+00	0.332780E+01	0.428200E+00	-0.172580E+01	0.951800E+00	0.606100E+00	0.126370E+01
13.600	-0.461200E+00	0.330660E+01	0.418200E+00	-0.164730E+01	0.938700E+00	0.655300E+00	0.116870E+01
13.800	-0.388500E+00	0.328430E+01	0.406200E+00	-0.157650E+01	0.926700E+00	0.700800E+00	0.103490E+01
14.000	-0.324800E+00	0.326150E+01	0.392700E+00	-0.151280E+01	0.915800E+00	0.742500E+00	0.856300E+00
14.200	-0.269200E+00	0.323880E+01	0.378400E+00	-0.145560E+01	0.906000E+00	0.780200E+00	0.635500E+00
14.400	-0.220600E+00	0.321660E+01	0.363600E+00	-0.140440E+01	0.897400E+00	0.814000E+00	0.392000E+00
14.600	-0.178400E+00	0.319510E+01	0.348800E+00	-0.135850E+01	0.889900E+00	0.844200E+00	0.158000E+00
15.000	-0.109900E+00	0.315520E+01	0.319600E+00	-0.128060E+01	0.878300E+00	0.894400E+00	0.198900E+00
15.200	-0.822000E-01	0.313680E+01	0.305600E+00	-0.124750E+01	0.874000E+00	0.915000E+00	0.319400E+00
15.600	-0.374000E-01	0.310340E+01	0.279300E+00	-0.119090E+01	0.868600E+00	0.948500E+00	0.482600E+00
15.800	-0.194000E-01	0.308840E+01	0.266900E+00	-0.116650E+01	0.867300E+00	0.961800E+00	0.538800E+00
16.000	-0.370000E-02	0.307430E+01	0.255200E+00	-0.114440E+01	0.867000E+00	0.973200E+00	0.584100E+00
16.200	0.990000E-02	0.306130E+01	0.244000E+00	-0.112420E+01	0.867700E+00	0.982700E+00	0.621400E+00
16.400	0.217000E-01	0.304910E+01	0.233400E+00	-0.110570E+01	0.869300E+00	0.990600E+00	0.652700E+00
16.600	0.319000E-01	0.303780E+01	0.223300E+00	-0.108860E+01	0.872000E+00	0.997000E+00	0.679400E+00
16.800	0.408000E-01	0.302730E+01	0.213800E+00	-0.107270E+01	0.875700E+00	0.100200E+01	0.702300E+00
17.000	0.485000E-01	0.301750E+01	0.204700E+00	-0.105780E+01	0.880600E+00	0.100570E+01	0.721900E+00
17.200	0.551000E-01	0.300840E+01	0.196100E+00	-0.104370E+01	0.886600E+00	0.100820E+01	0.738300E+00
17.400	0.609000E-01	0.299990E+01	0.187900E+00	-0.103010E+01	0.893800E+00	0.100950E+01	0.750500E+00
17.600	0.659000E-01	0.299200E+01	0.180200E+00	-0.101700E+01	0.902400E+00	0.100970E+01	0.754300E+00
17.800	0.702000E-01	0.298460E+01	0.172800E+00	-0.100410E+01	0.912500E+00	0.100890E+01	0.708100E+00
18.000	0.738000E-01	0.297770E+01	0.165800E+00	-0.991100E+00	0.924000E+00	0.100700E+01	0.474500E+00
18.200	0.770000E-01	0.297120E+01	0.159100E+00	-0.977800E+00	0.937200E+00	0.100410E+01	0.584600E+00
18.400	0.797000E-01	0.296510E+01	0.152800E+00	-0.964000E+00	0.952200E+00	0.100010E+01	0.619200E+00
18.600	0.820000E-01	0.295940E+01	0.146800E+00	-0.949300E+00	0.969100E+00	0.995100E+00	0.641200E+00
18.800	0.839000E-01	0.295410E+01	0.141100E+00	-0.933500E+00	0.988000E+00	0.989100E+00	0.657600E+00
19.000	0.854000E-01	0.294900E+01	0.135600E+00	-0.916300E+00	0.100900E+01	0.982000E+00	0.670600E+00
19.200	0.867000E-01	0.294430E+01	0.130400E+00	-0.897100E+00	0.103220E+01	0.973900E+00	0.680900E+00
19.600	0.886000E-01	0.293550E+01	0.120700E+00	-0.852000E+00	0.108510E+01	0.954300E+00	0.695900E+00
19.800	0.892000E-01	0.293150E+01	0.116200E+00	-0.825300E+00	0.111460E+01	0.942800E+00	0.701200E+00
20.000	0.896000E-01	0.292770E+01	0.111900E+00	-0.795500E+00	0.114590E+01	0.930200E+00	0.705200E+00

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3	20.200	0.899000E-01	0.292400E+01	0.107800E+00	-0.762500E+00	0.117860E+01	0.916500E+00	0.708100E+00
4	20.400	0.900000E-01	0.292060E+01	0.103800E+00	-0.726300E+00	0.121220E+01	0.901700E+00	0.710100E+00
5	20.600	0.900000E-01	0.291730E+01	0.100100E+00	-0.687200E+00	0.124620E+01	0.885700E+00	0.711200E+00
6	20.800	0.899000E-01	0.291420E+01	0.965000E-01	-0.645700E+00	0.128000E+01	0.868600E+00	0.711700E+00
7	21.000	0.897000E-01	0.291120E+01	0.930000E-01	-0.602300E+00	0.131300E+01	0.850500E+00	0.711500E+00
8	21.200	0.894000E-01	0.290840E+01	0.898000E-01	-0.558000E+00	0.134470E+01	0.831400E+00	0.710800E+00
9	25.000	0.757000E-01	0.287170E+01	0.476000E-01	-0.588000E-01	0.163510E+01	0.392800E+00	0.655800E+00
10	25.200	0.748000E-01	0.287040E+01	0.461000E-01	-0.499000E-01	0.164050E+01	0.372000E+00	0.652700E+00
11	25.400	0.739000E-01	0.286920E+01	0.447000E-01	-0.418000E-01	0.164550E+01	0.351800E+00	0.649600E+00
12	26.200	0.705000E-01	0.286450E+01	0.396000E-01	-0.167000E-01	0.166130E+01	0.277500E+00	0.638500E+00
13	26.600	0.688000E-01	0.286240E+01	0.373000E-01	-0.750000E-02	0.166720E+01	0.244300E+00	0.633700E+00
14	26.800	0.680000E-01	0.286140E+01	0.363000E-01	-0.360000E-02	0.166980E+01	0.228700E+00	0.631600E+00
15	27.400	0.656000E-01	0.285860E+01	0.332000E-01	0.600000E-02	0.167600E+01	0.185900E+00	0.626300E+00
16	29.600	0.576000E-01	0.285010E+01	0.245000E-01	0.234000E-01	0.168700E+01	0.763000E-01	0.628100E+00
17	29.800	0.569000E-01	0.284950E+01	0.239000E-01	0.242000E-01	0.168740E+01	0.696000E-01	0.630500E+00
18	30.600	0.543000E-01	0.284710E+01	0.215000E-01	0.262000E-01	0.168830E+01	0.473000E-01	0.644700E+00
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For Peer Review Only

Table 5: $(2)^3\Pi - (2-7)^3\Pi$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.800	0.105720E+01	0.449600E+00	0.251000E+00	-0.209190E+01	0.117790E+01	0.132180E+01
4.000	0.116140E+01	0.423400E+00	0.725000E+00	-0.164510E+01	0.976200E+00	0.134900E+00
4.200	0.130290E+01	0.417600E+00	0.868900E+00	-0.142280E+01	0.101440E+01	0.814000E-01
4.600	0.166490E+01	0.440200E+00	0.928200E+00	-0.117020E+01	0.136130E+01	-0.834000E-01
4.800	0.186790E+01	0.458900E+00	0.910200E+00	-0.106650E+01	0.149930E+01	-0.111400E+00
5.000	0.207410E+01	0.477300E+00	0.871800E+00	-0.957600E+00	0.163710E+01	-0.362800E+00
5.200	0.227580E+01	0.488800E+00	0.818800E+00	-0.835100E+00	0.177860E+01	-0.365600E+00
5.400	0.246710E+01	0.456600E+00	0.776100E+00	-0.692500E+00	0.192000E+01	-0.354200E+00
5.600	0.264350E+01	0.480200E+00	0.683100E+00	-0.525100E+00	0.205680E+01	-0.339600E+00
5.800	0.280230E+01	0.460300E+00	0.593800E+00	-0.332100E+00	0.218500E+01	-0.324800E+00
6.000	0.294180E+01	0.346400E+00	0.530600E+00	-0.129800E+00	0.230110E+01	-0.311000E+00
6.200	0.306130E+01	0.211600E+00	0.419600E+00	-0.408000E-01	0.240280E+01	-0.298600E+00
6.400	0.316080E+01	0.639000E-01	0.273000E+00	-0.143800E+00	0.248900E+01	-0.287800E+00
6.600	0.324090E+01	-0.934000E-01	0.119200E+00	-0.172900E+00	0.256010E+01	-0.278700E+00
6.800	0.330220E+01	-0.258100E+00	-0.228000E-01	-0.137000E+00	0.261620E+01	-0.271400E+00
7.000	0.334560E+01	-0.428000E+00	-0.141700E+00	-0.678000E-01	0.265560E+01	-0.266300E+00
7.200	0.337200E+01	-0.601200E+00	-0.229900E+00	0.331000E-01	0.267920E+01	-0.263400E+00
7.400	0.338240E+01	-0.775000E+00	-0.281500E+00	0.828000E-01	0.269080E+01	-0.263000E+00
7.600	0.337770E+01	-0.945900E+00	-0.291700E+00	0.199900E+00	0.269030E+01	-0.265200E+00
7.800	0.335880E+01	-0.110940E+01	-0.257800E+00	0.341700E+00	0.267770E+01	-0.269500E+00
8.200	0.328150E+01	-0.139310E+01	-0.586000E-01	0.606900E+00	0.262830E+01	-0.282800E+00
8.400	0.322440E+01	-0.150380E+01	0.991000E-01	0.715100E+00	0.259810E+01	-0.289900E+00
8.600	0.315580E+01	-0.159040E+01	0.287700E+00	0.802000E+00	0.256680E+01	-0.295800E+00
8.800	0.307600E+01	-0.165360E+01	0.500900E+00	0.862800E+00	0.253530E+01	-0.299200E+00
9.000	0.298540E+01	-0.169610E+01	0.732800E+00	0.891000E+00	0.250420E+01	-0.298500E+00
9.200	0.288420E+01	-0.172140E+01	0.977000E+00	0.880600E+00	0.247370E+01	-0.291900E+00
9.400	0.277240E+01	-0.173330E+01	0.122490E+01	0.828600E+00	0.244400E+01	-0.278200E+00
9.600	0.265010E+01	-0.173480E+01	0.146620E+01	0.739800E+00	0.241530E+01	-0.255700E+00
9.800	0.251730E+01	-0.172840E+01	0.169200E+01	0.626900E+00	0.238760E+01	-0.223800E+00
10.000	0.237390E+01	-0.171570E+01	0.189830E+01	0.505900E+00	0.236130E+01	-0.183000E+00
10.200	0.222010E+01	-0.169770E+01	0.208580E+01	0.390300E+00	0.233650E+01	-0.135100E+00
10.400	0.205610E+01	-0.167510E+01	0.225780E+01	0.287900E+00	0.231370E+01	-0.842000E-01
10.600	0.188280E+01	-0.164800E+01	0.241700E+01	0.202400E+00	0.229320E+01	-0.358000E-01
10.800	0.170120E+01	-0.161650E+01	0.256530E+01	0.133800E+00	0.227530E+01	-0.400000E-02
11.000	0.151330E+01	-0.158050E+01	0.270300E+01	0.809000E-01	0.226030E+01	-0.305000E-01
11.200	0.132170E+01	-0.153980E+01	0.282970E+01	0.416000E-01	0.224810E+01	-0.412000E-01
11.400	0.112960E+01	-0.149450E+01	0.294410E+01	0.132000E-01	0.223830E+01	-0.362000E-01
11.600	0.941000E+00	-0.144450E+01	0.304490E+01	-0.680000E-02	0.223020E+01	-0.173000E-01
11.800	0.759700E+00	-0.138990E+01	0.313070E+01	-0.207000E-01	0.222290E+01	0.127000E-01
12.000	0.589700E+00	-0.133080E+01	0.320040E+01	-0.308000E-01	0.221520E+01	0.505000E-01
12.200	0.434400E+00	-0.126760E+01	0.325340E+01	-0.387000E-01	0.220620E+01	0.928000E-01
12.400	0.296100E+00	-0.120060E+01	0.328930E+01	-0.456000E-01	0.219490E+01	0.136800E+00
12.600	0.176300E+00	-0.113030E+01	0.330820E+01	-0.523000E-01	0.218070E+01	0.179800E+00
12.800	0.755000E-01	-0.105710E+01	0.331090E+01	-0.594000E-01	0.216340E+01	0.219800E+00
13.000	-0.710000E-02	-0.981900E+00	0.329820E+01	-0.669000E-01	0.214290E+01	0.255000E+00
13.200	-0.727000E-01	-0.905400E+00	0.327130E+01	-0.749000E-01	0.211940E+01	0.284600E+00
13.400	-0.123100E+00	-0.828400E+00	0.323170E+01	-0.833000E-01	0.209350E+01	0.307800E+00
13.600	-0.160500E+00	-0.752000E+00	0.318110E+01	-0.918000E-01	0.206560E+01	0.324200E+00
13.800	-0.186900E+00	-0.677100E+00	0.312110E+01	-0.100300E+00	0.203620E+01	0.333700E+00
14.000	-0.204600E+00	-0.604700E+00	0.305350E+01	-0.108600E+00	0.200590E+01	0.335900E+00
14.200	-0.215300E+00	-0.535400E+00	0.297980E+01	-0.116500E+00	0.197510E+01	0.330500E+00
14.400	-0.220700E+00	-0.470100E+00	0.290180E+01	-0.123900E+00	0.194440E+01	0.318400E+00
14.600	-0.222100E+00	-0.409200E+00	0.282070E+01	-0.130700E+00	0.191400E+01	0.302100E+00
15.000	-0.217400E+00	-0.301800E+00	0.265460E+01	-0.142300E+00	0.185510E+01	0.270300E+00
15.200	-0.212900E+00	-0.255500E+00	0.257160E+01	-0.147100E+00	0.182710E+01	0.258500E+00
15.600	-0.201800E+00	-0.176800E+00	0.240940E+01	-0.154400E+00	0.177420E+01	0.244200E+00
15.800	-0.196000E+00	-0.144100E+00	0.233130E+01	-0.157000E+00	0.174950E+01	0.240900E+00
16.000	-0.190300E+00	-0.115300E+00	0.225570E+01	-0.158800E+00	0.172590E+01	0.239800E+00
16.200	-0.184700E+00	-0.901000E-01	0.218270E+01	-0.159800E+00	0.170350E+01	0.240400E+00
16.400	-0.179400E+00	-0.681000E-01	0.211260E+01	-0.160000E+00	0.168230E+01	0.242500E+00
16.600	-0.174400E+00	-0.491000E-01	0.204540E+01	-0.159500E+00	0.166220E+01	0.246000E+00
16.800	-0.169800E+00	-0.327000E-01	0.198120E+01	-0.158100E+00	0.164320E+01	0.250900E+00
17.000	-0.165500E+00	-0.186000E-01	0.191980E+01	-0.155800E+00	0.162540E+01	0.257600E+00
17.200	-0.161500E+00	-0.650000E-02	0.186140E+01	-0.152600E+00	0.160860E+01	0.267000E+00
17.400	-0.157800E+00	0.380000E-02	0.180570E+01	-0.148300E+00	0.159290E+01	0.281700E+00
17.600	-0.154400E+00	0.125000E-01	0.175270E+01	-0.143100E+00	0.157830E+01	0.311600E+00
17.800	-0.151300E+00	0.199000E-01	0.170230E+01	-0.136600E+00	0.156470E+01	0.437100E+00
18.000	-0.148500E+00	0.261000E-01	0.165430E+01	-0.129000E+00	0.155210E+01	0.140670E+01
18.200	-0.145800E+00	0.313000E-01	0.160870E+01	-0.120000E+00	0.154060E+01	0.142390E+01
18.400	-0.143400E+00	0.356000E-01	0.156530E+01	-0.109600E+00	0.153010E+01	0.144660E+01
18.600	-0.141200E+00	0.392000E-01	0.152400E+01	-0.976000E-01	0.152060E+01	0.146970E+01
18.800	-0.139100E+00	0.420000E-01	0.148460E+01	-0.841000E-01	0.151210E+01	0.149200E+01
19.000	-0.137100E+00	0.444000E-01	0.144690E+01	-0.688000E-01	0.150460E+01	0.151310E+01
19.200	-0.135300E+00	0.462000E-01	0.141080E+01	-0.517000E-01	0.149820E+01	0.153290E+01
19.600	-0.132000E+00	0.487000E-01	0.134280E+01	-0.122000E-01	0.148820E+01	0.156830E+01
19.800	-0.130500E+00	0.494000E-01	0.131040E+01	0.101000E-01	0.148480E+01	0.158390E+01
20.000	-0.129100E+00	0.499000E-01	0.127890E+01	0.338000E-01	0.148230E+01	0.159810E+01

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3	20.200	-0.127700E+00	0.502000E-01	0.124800E+01	0.587000E-01	0.148080E+01	0.161100E+01
4	20.400	-0.126400E+00	0.502000E-01	0.121780E+01	0.841000E-01	0.148020E+01	0.162260E+01
5	20.600	-0.125200E+00	0.502000E-01	0.118800E+01	0.109700E+00	0.148060E+01	0.163280E+01
6	20.800	-0.123900E+00	0.499000E-01	0.115870E+01	0.134600E+00	0.148200E+01	0.164180E+01
7	21.000	-0.122800E+00	0.496000E-01	0.112990E+01	0.158200E+00	0.148420E+01	0.164940E+01
8	21.200	-0.121600E+00	0.492000E-01	0.110170E+01	0.179800E+00	0.148730E+01	0.165580E+01
9	25.000	-0.102300E+00	0.355000E-01	0.807300E+00	0.179200E+00	0.168750E+01	0.154740E+01
10	25.200	-0.101300E+00	0.348000E-01	0.801800E+00	0.171400E+00	0.170440E+01	0.152960E+01
11	25.400	-0.100400E+00	0.341000E-01	0.796800E+00	0.163700E+00	0.172160E+01	0.151070E+01
12	26.200	-0.966000E-01	0.315000E-01	0.781000E+00	0.135800E+00	0.179380E+01	0.142330E+01
13	26.600	-0.948000E-01	0.302000E-01	0.775000E+00	0.123600E+00	0.183040E+01	0.137450E+01
14	26.800	-0.939000E-01	0.296000E-01	0.772300E+00	0.118000E+00	0.184860E+01	0.134900E+01
15	27.000	-0.930000E-01	0.290000E-01	0.769900E+00	0.112700E+00	0.186660E+01	0.132280E+01
16	27.400	-0.912000E-01	0.279000E-01	0.765600E+00	0.102900E+00	0.190180E+01	0.126900E+01
17	29.600	-0.818000E-01	0.226000E-01	0.750900E+00	0.664000E-01	0.205720E+01	0.970900E+00
18	29.800	-0.810000E-01	0.221000E-01	0.750100E+00	0.642000E-01	0.206750E+01	0.945800E+00
19	30.600	-0.778000E-01	0.206000E-01	0.747100E+00	0.568000E-01	0.210260E+01	0.851000E+00
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Table 6: $(3)^3\Pi - (3-7)^3\Pi$ transitions

R	3-3	3-4	3-5	3-6	3-7
3.800	0.742400E+00	-0.212000E-01	0.251400E+00	-0.156900E+01	0.163270E+01
4.000	0.718600E+00	-0.850000E-01	0.135100E+00	-0.231100E+01	0.187300E+00
4.200	0.690300E+00	-0.166900E+00	-0.236000E-01	-0.208230E+01	0.122330E+01
4.600	0.659400E+00	-0.253800E+00	-0.296500E+00	-0.526800E+00	0.241430E+01
4.800	0.660500E+00	-0.277200E+00	-0.404900E+00	-0.144000E-01	0.201570E+01
5.000	0.670400E+00	-0.310400E+00	-0.515300E+00	0.322000E+00	-0.801000E-01
5.200	0.686200E+00	-0.404300E+00	-0.652500E+00	0.602100E+00	-0.293300E+00
5.400	0.642000E+00	-0.915100E+00	-0.896200E+00	0.816500E+00	-0.651200E+00
5.600	-0.642760E+01	-0.170010E+01	-0.163910E+01	0.132830E+01	-0.330840E+01
5.800	-0.682910E+01	-0.810000E+00	-0.160950E+01	0.130350E+01	-0.335880E+01
6.000	-0.691920E+01	-0.847000E+00	-0.159530E+01	0.106360E+01	-0.338050E+01
6.200	-0.698470E+01	-0.975200E+00	-0.154900E+01	0.791100E+00	-0.339750E+01
6.400	-0.703580E+01	-0.104430E+01	-0.151340E+01	0.514100E+00	-0.340690E+01
6.600	-0.707160E+01	-0.101480E+01	-0.152240E+01	0.253700E+00	-0.340540E+01
6.800	-0.708760E+01	-0.890000E+00	-0.158210E+01	0.290000E-01	-0.339020E+01
7.000	-0.707760E+01	-0.679500E+00	-0.168480E+01	-0.155600E+00	-0.335840E+01
7.200	-0.703280E+01	-0.392500E+00	-0.180780E+01	-0.327000E+00	-0.330660E+01
7.400	-0.694200E+01	-0.391000E-01	-0.191840E+01	-0.515400E+00	-0.323090E+01
7.600	-0.679300E+01	0.366700E+00	-0.199210E+01	-0.712000E+00	-0.312730E+01
7.800	-0.657500E+01	0.804400E+00	-0.202130E+01	-0.886100E+00	-0.299250E+01
8.200	-0.592330E+01	0.166360E+01	-0.195220E+01	-0.109780E+01	-0.263040E+01
8.400	-0.551320E+01	0.202830E+01	-0.185760E+01	-0.113470E+01	-0.241430E+01
8.600	-0.507920E+01	0.232530E+01	-0.172550E+01	-0.113670E+01	-0.218870E+01
8.800	-0.464900E+01	0.255210E+01	-0.155860E+01	-0.111420E+01	-0.196540E+01
9.000	-0.424440E+01	0.271590E+01	-0.136050E+01	-0.107630E+01	-0.175410E+01
9.200	-0.387870E+01	0.282760E+01	-0.113770E+01	-0.102990E+01	-0.156180E+01
9.400	-0.355720E+01	0.289610E+01	-0.902600E+00	-0.979200E+00	-0.139180E+01
9.600	-0.327930E+01	0.292930E+01	-0.674400E+00	-0.926500E+00	-0.124570E+01
9.800	-0.304150E+01	0.293580E+01	-0.473900E+00	-0.872700E+00	-0.112390E+01
10.000	-0.283880E+01	0.292600E+01	-0.315600E+00	-0.817600E+00	-0.102570E+01
10.200	-0.266580E+01	0.290990E+01	-0.203300E+00	-0.760700E+00	-0.950200E+00
10.400	-0.251770E+01	0.289460E+01	-0.132600E+00	-0.701200E+00	-0.896700E+00
10.600	-0.238990E+01	0.288410E+01	-0.957000E-01	-0.638400E+00	-0.864300E+00
10.800	-0.227890E+01	0.287980E+01	0.839000E-01	-0.571700E+00	-0.851400E+00
11.000	-0.218120E+01	0.288160E+01	0.901000E-01	-0.500900E+00	-0.855400E+00
11.200	-0.209410E+01	0.288890E+01	0.108100E+00	-0.426300E+00	-0.873200E+00
11.400	-0.201500E+01	0.290080E+01	0.133300E+00	-0.348500E+00	-0.900900E+00
11.600	-0.194180E+01	0.291590E+01	0.162000E+00	-0.268500E+00	-0.935300E+00
11.800	-0.187240E+01	0.293300E+01	0.191700E+00	-0.187400E+00	-0.973500E+00
12.000	-0.180510E+01	0.295050E+01	0.220500E+00	-0.106600E+00	-0.101330E+01
12.200	-0.173810E+01	0.296680E+01	0.247000E+00	-0.272000E-01	-0.105320E+01
12.400	-0.167010E+01	0.297980E+01	0.270500E+00	0.495000E-01	-0.109200E+01
12.600	-0.159980E+01	0.298750E+01	0.290500E+00	0.122600E+00	-0.112880E+01
12.800	-0.152640E+01	0.298790E+01	0.306900E+00	0.191300E+00	-0.116250E+01
13.000	-0.144950E+01	0.297910E+01	0.319700E+00	0.255000E+00	-0.119190E+01
13.200	-0.136890E+01	0.295930E+01	0.329200E+00	0.313100E+00	-0.121510E+01
13.400	-0.128510E+01	0.292730E+01	0.335600E+00	0.365300E+00	-0.122930E+01
13.600	-0.119870E+01	0.288230E+01	0.339300E+00	0.411500E+00	-0.123020E+01
13.800	-0.111080E+01	0.282410E+01	0.340600E+00	0.451500E+00	-0.121100E+01
14.000	-0.102280E+01	0.275310E+01	0.339900E+00	0.485400E+00	-0.116280E+01
14.200	-0.936000E+00	0.267040E+01	0.337400E+00	0.513300E+00	-0.107780E+01
14.400	-0.851500E+00	0.257730E+01	0.333500E+00	0.535500E+00	-0.957400E+00
14.600	-0.770700E+00	0.247550E+01	0.328500E+00	0.552400E+00	-0.816300E+00
15.000	-0.623200E+00	0.225390E+01	0.316100E+00	0.571900E+00	-0.544200E+00
15.200	-0.557600E+00	0.213790E+01	0.309000E+00	0.575300E+00	-0.430900E+00
15.600	-0.443600E+00	0.190400E+01	0.293900E+00	0.572000E+00	-0.250400E+00
15.800	-0.395000E+00	0.178900E+01	0.286200E+00	0.566200E+00	-0.178900E+00
16.000	-0.351600E+00	0.167670E+01	0.278500E+00	0.558100E+00	-0.117300E+00
16.200	-0.313000E+00	0.156780E+01	0.270900E+00	0.548200E+00	-0.640000E-01
16.400	-0.278800E+00	0.146310E+01	0.263400E+00	0.536800E+00	-0.178000E-01
16.600	-0.248600E+00	0.136300E+01	0.256000E+00	0.524200E+00	0.225000E-01
16.800	-0.222000E+00	0.126760E+01	0.248900E+00	0.510600E+00	0.576000E-01
17.000	-0.198600E+00	0.117710E+01	0.242100E+00	0.496300E+00	0.887000E-01
17.200	-0.177900E+00	0.109150E+01	0.235500E+00	0.481400E+00	0.116900E+00
17.400	-0.159700E+00	0.101080E+01	0.229300E+00	0.466200E+00	0.144200E+00
17.600	-0.143700E+00	0.934800E+00	0.223300E+00	0.450800E+00	0.176900E+00
17.800	-0.129500E+00	0.863500E+00	0.217600E+00	0.435400E+00	0.261700E+00
18.000	-0.117000E+00	0.796500E+00	0.212300E+00	0.419900E+00	0.779500E+00
18.200	-0.105900E+00	0.733800E+00	0.207200E+00	0.404600E+00	0.715000E+00
18.400	-0.960000E-01	0.675000E+00	0.202400E+00	0.389400E+00	0.659000E+00
18.600	-0.873000E-01	0.620000E+00	0.197900E+00	0.374500E+00	0.608400E+00
18.800	-0.794000E-01	0.568500E+00	0.193600E+00	0.359800E+00	0.561900E+00
19.000	-0.724000E-01	0.520300E+00	0.189500E+00	0.345400E+00	0.518800E+00
19.200	-0.661000E-01	0.475300E+00	0.185600E+00	0.331400E+00	0.479000E+00
19.600	-0.553000E-01	0.393700E+00	0.177900E+00	0.304400E+00	0.408200E+00
19.800	-0.506000E-01	0.356900E+00	0.174000E+00	0.291500E+00	0.376700E+00
20.000	-0.464000E-01	0.322600E+00	0.170000E+00	0.278900E+00	0.347700E+00

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3	20.200	-0.425000E-01	0.290600E+00	0.165600E+00	0.266700E+00	0.320900E+00
4	20.400	-0.390000E-01	0.260900E+00	0.160900E+00	0.254900E+00	0.296100E+00
5	20.600	-0.358000E-01	0.233400E+00	0.155800E+00	0.243400E+00	0.273300E+00
6	20.800	-0.329000E-01	0.208100E+00	0.150100E+00	0.232300E+00	0.252300E+00
7	21.000	-0.301000E-01	0.185100E+00	0.143900E+00	0.221500E+00	0.232800E+00
8	21.200	-0.276000E-01	0.164100E+00	0.137200E+00	0.211000E+00	0.214900E+00
9	25.000	-0.300000E-02	0.217000E-01	0.236000E-01	0.725000E-01	0.485000E-01
10	25.200	-0.230000E-02	0.201000E-01	0.209000E-01	0.681000E-01	0.447000E-01
11	25.400	-0.180000E-02	0.187000E-01	0.184000E-01	0.639000E-01	0.411000E-01
12	26.200	0.200000E-03	0.142000E-01	0.105000E-01	0.494000E-01	0.282000E-01
13	26.600	0.100000E-02	0.127000E-01	0.770000E-02	0.436000E-01	0.235000E-01
14	26.800	0.140000E-02	0.120000E-01	0.650000E-02	0.410000E-01	0.213000E-01
15	27.000	0.170000E-02	0.114000E-01	0.540000E-02	0.385000E-01	0.193000E-01
16	27.400	0.240000E-02	0.103000E-01	0.350000E-02	0.341000E-01	0.157000E-01
17	29.600	0.480000E-02	0.650000E-02	0.210000E-02	0.188000E-01	0.230000E-02
18	29.800	0.490000E-02	0.630000E-02	0.230000E-02	0.180000E-01	0.150000E-02
19	30.600	0.540000E-02	0.550000E-02	0.320000E-02	0.150000E-01	0.140000E-02
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For Peer Review Only

The following tables display the dipole moment functions between the four lowest Σ^+ states with the seven lowest Σ states of **NaCs**, for singlet (Tables 1 to 4) and triplet (Tables 5 to 8) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 2.54158059 Debye. All states are identified with their number with increasing energy. When both indexes are equal, the function corresponds to the permanent dipole moment.

Table 1: (1) $^1\Sigma^+$ -(1-7) $^1\Sigma^+$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.200	-0.565700E+00	0.322290E+01	-0.172630E+01	0.196600E+00	0.439000E-01	0.365500E+00	0.875000E-01
3.400	-0.850700E+00	0.317010E+01	-0.177170E+01	0.390300E+00	0.444000E-01	0.328800E+00	0.103800E+00
3.600	-0.105770E+01	0.313720E+01	-0.176420E+01	0.571200E+00	0.106100E+00	0.265500E+00	0.129800E+00
3.800	-0.120500E+01	0.312920E+01	-0.170440E+01	0.754100E+00	0.179200E+00	0.180500E+00	0.155200E+00
4.200	-0.138050E+01	0.319660E+01	-0.136420E+01	0.116800E+01	0.166500E+00	0.567000E-01	0.125800E+00
4.600	-0.146940E+01	0.332060E+01	-0.778700E+00	0.144530E+01	0.997000E-01	0.335300E+00	0.371000E-01
4.800	-0.149940E+01	0.336620E+01	-0.484800E+00	0.149110E+01	0.250300E+00	0.456400E+00	-0.100200E+00
5.000	-0.152570E+01	0.339460E+01	-0.246300E+00	0.150120E+01	0.357500E+00	0.553000E+00	-0.150800E+00
5.200	-0.155060E+01	0.341440E+01	-0.814000E-01	0.149840E+01	0.417800E+00	0.624400E+00	-0.184600E+00
5.400	-0.157580E+01	0.343410E+01	-0.131000E-01	0.149350E+01	0.444500E+00	0.674800E+00	-0.198900E+00
5.600	-0.160200E+01	0.345870E+01	-0.506000E-01	0.149030E+01	0.450400E+00	0.708700E+00	-0.196700E+00
5.800	-0.162950E+01	0.348950E+01	-0.461000E-01	0.148950E+01	0.444100E+00	0.729500E+00	-0.184300E+00
6.000	-0.165830E+01	0.352610E+01	0.124000E-01	0.149120E+01	0.429900E+00	0.739900E+00	-0.166300E+00
6.200	-0.168810E+01	0.356780E+01	0.402000E-01	0.149500E+01	0.409600E+00	0.741800E+00	-0.147100E+00
6.400	-0.171840E+01	0.361370E+01	0.103800E+00	0.150100E+01	0.383600E+00	0.737000E+00	-0.128700E+00
6.600	-0.174890E+01	0.366290E+01	0.172700E+00	0.150940E+01	0.351200E+00	0.726800E+00	-0.112000E+00
6.800	-0.177880E+01	0.371470E+01	0.242900E+00	0.152050E+01	0.311200E+00	0.712400E+00	-0.970000E-01
7.000	-0.180770E+01	0.376850E+01	0.312000E+00	0.153440E+01	0.262500E+00	0.694400E+00	-0.833000E-01
7.200	-0.183460E+01	0.382380E+01	0.378300E+00	0.155080E+01	0.204300E+00	0.673600E+00	-0.702000E-01
7.400	-0.185900E+01	0.387990E+01	0.441200E+00	0.156890E+01	0.136800E+00	0.650300E+00	-0.568000E-01
7.600	-0.188000E+01	0.393640E+01	0.500200E+00	0.158780E+01	0.616000E-01	0.624800E+00	-0.422000E-01
7.800	-0.189680E+01	0.399270E+01	0.555100E+00	0.160650E+01	0.181000E-01	0.597500E+00	-0.256000E-01
8.200	-0.191400E+01	0.410220E+01	0.651600E+00	0.164360E+01	-0.175700E+00	0.537400E+00	0.154000E-01
8.400	-0.191280E+01	0.415430E+01	0.692500E+00	0.166350E+01	-0.246700E+00	0.504800E+00	0.396000E-01
8.600	-0.190380E+01	0.420370E+01	0.727900E+00	0.168610E+01	-0.309700E+00	0.470600E+00	0.657000E-01
8.800	-0.188630E+01	0.424970E+01	0.756800E+00	0.171240E+01	-0.364000E+00	0.434700E+00	0.926000E-01
9.000	-0.185990E+01	0.429150E+01	0.778300E+00	0.174340E+01	-0.409700E+00	0.397200E+00	0.119000E+00
9.200	-0.182410E+01	0.432820E+01	0.791200E+00	0.177990E+01	-0.447200E+00	0.358300E+00	0.143800E+00
9.400	-0.177880E+01	0.435900E+01	0.793900E+00	0.182210E+01	-0.476800E+00	0.318100E+00	0.165900E+00
9.600	-0.172410E+01	0.438310E+01	0.784500E+00	0.187020E+01	-0.499200E+00	0.277000E+00	0.184200E+00
9.800	-0.166040E+01	0.439980E+01	0.760800E+00	0.192420E+01	-0.514700E+00	0.235500E+00	0.197800E+00
10.000	-0.158860E+01	0.440840E+01	0.720200E+00	0.198350E+01	-0.523800E+00	0.194800E+00	0.205800E+00
10.200	-0.150950E+01	0.440850E+01	0.659900E+00	0.204710E+01	-0.526700E+00	0.156200E+00	0.207400E+00
10.400	-0.142460E+01	0.439970E+01	0.577300E+00	0.211330E+01	-0.523900E+00	0.122000E+00	0.202000E+00
10.600	-0.133530E+01	0.438210E+01	0.470300E+00	0.217930E+01	-0.515800E+00	0.954000E-01	0.189800E+00
10.800	-0.124300E+01	0.435590E+01	0.338900E+00	0.224140E+01	-0.502900E+00	0.796000E-01	0.171900E+00
11.000	-0.114960E+01	0.432150E+01	0.185800E+00	0.229520E+01	-0.485900E+00	0.770000E-01	0.150600E+00
11.200	-0.105640E+01	0.427980E+01	-0.174000E-01	0.233690E+01	-0.465600E+00	0.881000E-01	0.128500E+00
11.400	-0.964900E+00	0.423170E+01	-0.157200E+00	0.236410E+01	-0.443000E+00	0.110900E+00	0.108500E+00
11.600	-0.876400E+00	0.417810E+01	-0.328300E+00	0.237740E+01	-0.419200E+00	0.141600E+00	0.923000E-01
11.800	-0.791800E+00	0.412040E+01	-0.488300E+00	0.237900E+01	-0.395700E+00	0.176000E+00	0.811000E-01
12.000	-0.711900E+00	0.405970E+01	-0.632300E+00	0.237250E+01	-0.374200E+00	0.210400E+00	0.749000E-01
12.200	-0.637200E+00	0.399730E+01	-0.758500E+00	0.236110E+01	-0.356500E+00	0.242200E+00	0.729000E-01
12.400	-0.568100E+00	0.393430E+01	-0.867200E+00	0.234740E+01	-0.344400E+00	0.269900E+00	0.735000E-01
12.600	-0.504600E+00	0.387170E+01	-0.959600E+00	0.233280E+01	-0.340100E+00	0.292700E+00	0.754000E-01
12.800	-0.446700E+00	0.381050E+01	-0.103750E+01	0.231830E+01	-0.345600E+00	0.310500E+00	0.775000E-01
13.000	-0.394300E+00	0.375150E+01	-0.110250E+01	0.230380E+01	-0.363100E+00	0.323600E+00	0.793000E-01
13.200	-0.347100E+00	0.369550E+01	-0.115600E+01	0.228870E+01	-0.394900E+00	0.332400E+00	0.807000E-01
13.400	-0.304700E+00	0.364290E+01	-0.119930E+01	0.227200E+01	-0.443200E+00	0.337400E+00	0.818000E-01
13.600	-0.266900E+00	0.359420E+01	-0.123320E+01	0.225190E+01	-0.510500E+00	0.339200E+00	0.826000E-01
13.800	-0.233200E+00	0.354980E+01	-0.125860E+01	0.222560E+01	-0.598700E+00	0.338300E+00	0.834000E-01
14.000	-0.203300E+00	0.350980E+01	-0.127590E+01	0.218990E+01	-0.709000E+00	0.335300E+00	0.842000E-01
14.200	-0.176900E+00	0.347450E+01	-0.128570E+01	0.214110E+01	-0.840500E+00	0.330400E+00	0.852000E-01
14.400	-0.153500E+00	0.344370E+01	-0.128830E+01	0.207580E+01	-0.989000E+00	0.324100E+00	0.863000E-01
14.600	-0.132800E+00	0.341770E+01	-0.128390E+01	0.199320E+01	-0.114660E+01	0.316600E+00	0.876000E-01
15.000	-0.986000E-01	0.337880E+01	-0.125510E+01	0.178900E+01	-0.144770E+01	0.299400E+00	0.907000E-01
15.200	-0.845000E-01	0.336550E+01	-0.123110E+01	0.168040E+01	-0.157490E+01	0.290100E+00	0.925000E-01
15.800	-0.517000E-01	0.334640E+01	-0.112400E+01	0.139170E+01	-0.184330E+01	0.260900E+00	0.990000E-01
16.400	-0.295000E-01	0.334910E+01	-0.972900E+00	0.118240E+01	-0.199330E+01	0.232100E+00	0.106300E+00
16.600	-0.239000E-01	0.335260E+01	-0.915300E+00	0.112700E+01	-0.202820E+01	0.222900E+00	0.108900E+00
16.800	-0.189000E-01	0.335670E+01	-0.855200E+00	0.107700E+01	-0.205810E+01	0.214000E+00	0.111600E+00
17.000	-0.145000E-01	0.336090E+01	-0.793400E+00	0.103160E+01	-0.208420E+01	0.205400E+00	0.114300E+00
17.200	-0.107000E-01	0.336500E+01	-0.730600E+00	0.990000E+00	-0.210700E+01	0.197000E+00	0.117000E+00
17.400	-0.730000E-02	0.336880E+01	-0.667500E+00	0.951400E+00	-0.212730E+01	0.189000E+00	0.119700E+00
17.600	-0.440000E-02	0.337190E+01	-0.604700E+00	0.915500E+00	-0.214540E+01	0.181400E+00	0.122400E+00
17.800	-0.180000E-02	0.337440E+01	-0.542900E+00	0.881500E+00	-0.216180E+01	0.174000E+00	0.125200E+00

1								
2								
3	18.000	0.500000E-03	0.337610E+01	-0.482700E+00	0.849200E+00	-0.217660E+01	0.167000E+00	0.127900E+00
4	18.200	0.250000E-02	0.337700E+01	-0.424500E+00	0.818200E+00	-0.219010E+01	0.160200E+00	0.130600E+00
5	18.400	0.430000E-02	0.337720E+01	-0.368700E+00	0.788200E+00	-0.220260E+01	0.153800E+00	0.133300E+00
6	18.600	0.580000E-02	0.337660E+01	-0.315900E+00	0.759000E+00	-0.221400E+01	0.147600E+00	0.135900E+00
7	18.800	0.720000E-02	0.337550E+01	-0.266300E+00	0.730500E+00	-0.222460E+01	0.141800E+00	0.138600E+00
8	19.000	0.840000E-02	0.337370E+01	-0.220100E+00	0.702600E+00	-0.223440E+01	0.136200E+00	0.141200E+00
9	19.200	0.950000E-02	0.337150E+01	-0.177600E+00	0.675400E+00	-0.224350E+01	0.130800E+00	0.143800E+00
10	19.600	0.112000E-01	0.336570E+01	-0.103700E+00	0.623400E+00	-0.225990E+01	0.120900E+00	0.148900E+00
11	19.800	0.119000E-01	0.336240E+01	-0.724000E-01	0.598900E+00	-0.226730E+01	0.116300E+00	0.151400E+00
12	20.000	0.126000E-01	0.335880E+01	-0.447000E-01	0.575800E+00	-0.227420E+01	0.111900E+00	0.153800E+00
13	20.200	0.131000E-01	0.335500E+01	-0.203000E-01	0.554400E+00	-0.228050E+01	0.107700E+00	0.156300E+00
14	20.400	0.136000E-01	0.335110E+01	0.900000E-03	0.534800E+00	-0.228640E+01	0.103700E+00	0.158700E+00
15	20.600	0.140000E-01	0.334710E+01	0.193000E-01	0.517600E+00	-0.229170E+01	0.100000E+00	0.161000E+00
16	20.800	0.144000E-01	0.334310E+01	0.351000E-01	0.503200E+00	-0.229640E+01	0.964000E-01	0.163300E+00
17	21.000	0.147000E-01	0.333890E+01	0.485000E-01	0.492300E+00	-0.230050E+01	0.929000E-01	0.165600E+00
18	21.200	0.150000E-01	0.333480E+01	0.599000E-01	0.485900E+00	-0.230370E+01	0.897000E-01	0.167900E+00
19	21.400	0.152000E-01	0.333070E+01	0.695000E-01	0.485700E+00	-0.230570E+01	0.866000E-01	0.170100E+00
20	21.600	0.154000E-01	0.332660E+01	0.775000E-01	0.495000E+00	-0.230580E+01	0.837000E-01	0.172300E+00
21	21.800	0.156000E-01	0.332260E+01	0.842000E-01	0.520200E+00	-0.230250E+01	0.810000E-01	0.174400E+00
22	22.000	0.157000E-01	0.331850E+01	0.896000E-01	0.576900E+00	-0.229130E+01	0.784000E-01	0.176500E+00
23	22.200	0.158000E-01	0.331460E+01	0.941000E-01	0.712400E+00	-0.225530E+01	0.760000E-01	0.178500E+00
24	22.400	0.159000E-01	0.331070E+01	0.976000E-01	0.113450E+01	-0.207790E+01	0.737000E-01	0.180500E+00
25	22.600	0.160000E-01	0.330690E+01	0.100400E+00	0.214630E+01	-0.100490E+01	0.716000E-01	0.182500E+00
26	22.800	0.160000E-01	0.330320E+01	0.102500E+00	0.235460E+01	-0.289200E+00	0.696000E-01	0.184400E+00
27	23.000	0.161000E-01	0.329950E+01	0.104100E+00	0.237300E+01	-0.879000E-01	0.677000E-01	0.186300E+00
28	23.200	0.161000E-01	0.329590E+01	0.105200E+00	0.237710E+01	0.630000E-02	0.660000E-01	0.188100E+00
29	23.400	0.161000E-01	0.329250E+01	0.105900E+00	0.237920E+01	0.343000E-01	0.645000E-01	0.189900E+00
30	23.600	0.161000E-01	0.328910E+01	0.106200E+00	0.238120E+01	0.566000E-01	0.631000E-01	0.191700E+00
31	23.800	0.160000E-01	0.328580E+01	0.106300E+00	0.238320E+01	0.694000E-01	0.618000E-01	0.193400E+00
32	24.000	0.160000E-01	0.328250E+01	0.106100E+00	0.238530E+01	0.767000E-01	0.607000E-01	0.195100E+00
33	24.200	0.159000E-01	0.327940E+01	0.105700E+00	0.238750E+01	0.805000E-01	0.597000E-01	0.196800E+00
34	24.400	0.159000E-01	0.327640E+01	0.105100E+00	0.238970E+01	0.821000E-01	0.589000E-01	0.198400E+00
35	24.600	0.158000E-01	0.327340E+01	0.104300E+00	0.239190E+01	0.822000E-01	0.583000E-01	0.200000E+00
36	24.800	0.157000E-01	0.327050E+01	0.103500E+00	0.239410E+01	0.813000E-01	0.578000E-01	0.201500E+00
37	25.000	0.156000E-01	0.326770E+01	0.102500E+00	0.239630E+01	0.796000E-01	0.575000E-01	0.203100E+00
38	25.200	0.155000E-01	0.326500E+01	0.101400E+00	0.239840E+01	0.774000E-01	0.573000E-01	0.204500E+00
39	25.400	0.155000E-01	0.326240E+01	0.100200E+00	0.240060E+01	0.747000E-01	0.574000E-01	0.206000E+00
40	25.600	0.154000E-01	0.325980E+01	0.990000E-01	0.240260E+01	0.717000E-01	0.576000E-01	0.207400E+00
41	25.800	0.152000E-01	0.325740E+01	0.978000E-01	0.240470E+01	0.683000E-01	0.580000E-01	0.208700E+00
42	26.000	0.151000E-01	0.325490E+01	0.964000E-01	0.240670E+01	0.647000E-01	0.585000E-01	0.210100E+00
43	26.200	0.150000E-01	0.325260E+01	0.951000E-01	0.240860E+01	0.609000E-01	0.591000E-01	0.211300E+00
44	26.400	0.149000E-01	0.325030E+01	0.937000E-01	0.241050E+01	0.568000E-01	0.599000E-01	0.212600E+00
45	26.600	0.148000E-01	0.324810E+01	0.924000E-01	0.241240E+01	0.526000E-01	0.606000E-01	0.213800E+00
46	26.800	0.147000E-01	0.324600E+01	0.910000E-01	0.241420E+01	0.482000E-01	0.613000E-01	0.214900E+00
47	28.000	0.139000E-01	0.323420E+01	0.826000E-01	0.242410E+01	0.246000E-01	0.221100E+00	0.667000E-01
48	29.800	0.129000E-01	0.321960E+01	0.710000E-01	0.243620E+01	0.880000E-02	0.227700E+00	0.525000E-01
49	30.000	0.128000E-01	0.321830E+01	0.698000E-01	0.243750E+01	0.800000E-02	0.228200E+00	0.510000E-01
50	30.200	0.126000E-01	0.321690E+01	0.686000E-01	0.243860E+01	0.730000E-02	0.228800E+00	0.495000E-01
51	30.400	0.125000E-01	0.321550E+01	0.675000E-01	0.243980E+01	0.670000E-02	0.229300E+00	0.481000E-01
52	30.600	0.124000E-01	0.321420E+01	0.663000E-01	0.244090E+01	0.620000E-02	0.229800E+00	0.467000E-01
53	30.800	0.123000E-01	0.321270E+01	0.652000E-01	0.244180E+01	0.580000E-02	0.230200E+00	0.454000E-01

Table 2: $(2)^1\Sigma^+ - (2-7)^1\Sigma^+$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.200	0.140000E+00	0.629000E-01	0.101740E+01	0.313380E+01	0.167600E+00	0.136920E+01
3.400	0.358200E+00	0.218500E+00	0.103360E+01	0.293840E+01	0.590800E+00	0.165180E+01
3.600	0.535500E+00	0.517900E+00	0.121110E+01	0.274190E+01	0.652800E+00	0.194990E+01
3.800	0.659700E+00	0.846400E+00	0.132360E+01	0.262430E+01	0.510200E+00	0.218760E+01
4.200	0.729400E+00	0.153570E+01	0.963100E+00	0.264690E+01	0.137000E+00	0.231490E+01
4.600	0.535500E+00	0.205160E+01	0.650000E-02	0.266960E+01	-0.885000E-01	0.205970E+01
4.800	0.386500E+00	0.220780E+01	-0.496500E+00	0.254710E+01	-0.147900E+00	0.196050E+01
5.000	0.259800E+00	0.231290E+01	-0.867400E+00	0.236790E+01	-0.185000E+00	0.186560E+01
5.200	0.178000E+00	0.239320E+01	-0.110940E+01	0.219190E+01	-0.197700E+00	0.176220E+01
5.400	0.138600E+00	0.246870E+01	-0.124820E+01	0.205300E+01	-0.183800E+00	0.166010E+01
5.600	0.127900E+00	0.254790E+01	-0.130940E+01	0.196070E+01	-0.147100E+00	0.157100E+01
5.800	0.132300E+00	0.263100E+01	-0.131040E+01	0.191270E+01	-0.943000E-01	0.150030E+01
6.000	0.141700E+00	0.271390E+01	-0.126270E+01	0.190310E+01	-0.321000E-01	0.145040E+01
6.200	0.149400E+00	0.279160E+01	-0.117390E+01	0.192540E+01	0.347000E-01	0.142010E+01
6.400	0.151300E+00	0.285920E+01	-0.105020E+01	0.197390E+01	0.103100E+00	0.140870E+01
6.600	0.144700E+00	0.291290E+01	-0.895900E+00	0.204300E+01	0.171200E+00	0.141540E+01
6.800	0.127900E+00	0.295060E+01	-0.714000E+00	0.212680E+01	0.238400E+00	0.144010E+01
7.000	0.995000E-01	0.297130E+01	-0.506000E+00	0.221930E+01	0.304500E+00	0.148230E+01
7.200	0.586000E-01	0.297550E+01	-0.273200E+00	0.231340E+01	0.369700E+00	0.154200E+01
7.400	0.400000E-02	0.296440E+01	0.179000E-01	0.240180E+01	0.434600E+00	0.161820E+01
7.600	-0.653000E-01	0.293950E+01	0.255500E+00	0.247780E+01	0.500100E+00	0.170930E+01
7.800	-0.150200E+00	0.290300E+01	0.539400E+00	0.253680E+01	0.567100E+00	0.181220E+01
8.200	-0.370800E+00	0.280400E+01	0.110130E+01	0.260140E+01	0.710700E+00	0.203420E+01
8.400	-0.508100E+00	0.274660E+01	0.136200E+01	0.261300E+01	0.790100E+00	0.214070E+01
8.600	-0.664200E+00	0.268770E+01	0.160120E+01	0.261730E+01	0.877000E+00	0.223660E+01
8.800	-0.839100E+00	0.263030E+01	0.181590E+01	0.261870E+01	0.973300E+00	0.231690E+01
9.000	-0.103270E+01	0.257760E+01	0.200490E+01	0.262100E+01	0.108120E+01	0.237900E+01
9.200	-0.124430E+01	0.253290E+01	0.216790E+01	0.262670E+01	0.120310E+01	0.242070E+01
9.400	-0.147260E+01	0.249990E+01	0.230470E+01	0.263760E+01	0.134160E+01	0.244050E+01
9.600	-0.171620E+01	0.248210E+01	0.241560E+01	0.265480E+01	0.149910E+01	0.243590E+01
9.800	-0.197290E+01	0.248310E+01	0.250030E+01	0.267910E+01	0.167770E+01	0.240320E+01
10.000	-0.224040E+01	0.250630E+01	0.255830E+01	0.271090E+01	0.187780E+01	0.233770E+01
10.200	-0.251580E+01	0.255470E+01	0.258820E+01	0.275060E+01	0.209640E+01	0.223250E+01
10.400	-0.279630E+01	0.263050E+01	0.258860E+01	0.279810E+01	0.232480E+01	0.208320E+01
10.600	-0.307880E+01	0.273390E+01	0.255800E+01	0.285330E+01	0.254620E+01	0.189040E+01
10.800	-0.336030E+01	0.286270E+01	0.249610E+01	0.291540E+01	0.273820E+01	0.166530E+01
11.000	-0.363800E+01	0.301130E+01	0.240500E+01	0.298340E+01	0.287850E+01	0.142880E+01
11.200	-0.390900E+01	0.317120E+01	0.229120E+01	0.305570E+01	0.295250E+01	0.120510E+01
11.400	-0.417090E+01	0.333340E+01	0.216480E+01	0.313000E+01	0.295730E+01	0.101430E+01
11.600	-0.442140E+01	0.349030E+01	0.203820E+01	0.320360E+01	0.290030E+01	0.868500E+00
11.800	-0.465850E+01	0.363810E+01	0.192280E+01	0.327350E+01	0.279490E+01	0.772000E+00
12.000	-0.488060E+01	0.377600E+01	0.182680E+01	0.333690E+01	0.265570E+01	0.722600E+00
12.200	-0.508620E+01	0.390580E+01	0.175510E+01	0.339070E+01	0.249570E+01	0.711500E+00
12.400	-0.527410E+01	0.403010E+01	0.170970E+01	0.343250E+01	0.232490E+01	0.726400E+00
12.600	-0.544330E+01	0.415140E+01	0.169100E+01	0.346030E+01	0.215030E+01	0.754500E+00
12.800	-0.559290E+01	0.427200E+01	0.169870E+01	0.347220E+01	0.197660E+01	0.786100E+00
13.000	-0.572210E+01	0.439330E+01	0.173250E+01	0.346660E+01	0.180660E+01	0.815700E+00
13.200	-0.583010E+01	0.451660E+01	0.179230E+01	0.344140E+01	0.164200E+01	0.841100E+00
13.400	-0.591630E+01	0.464250E+01	0.187850E+01	0.339410E+01	0.148320E+01	0.862000E+00
13.600	-0.597990E+01	0.477100E+01	0.199120E+01	0.332160E+01	0.133020E+01	0.878900E+00
13.800	-0.602030E+01	0.490210E+01	0.213000E+01	0.321950E+01	0.118270E+01	0.892800E+00
14.000	-0.603660E+01	0.503510E+01	0.229290E+01	0.308340E+01	0.103990E+01	0.904600E+00
14.200	-0.602830E+01	0.516920E+01	0.247440E+01	0.290920E+01	0.901000E+00	0.915400E+00
14.400	-0.599470E+01	0.530330E+01	0.266440E+01	0.269620E+01	0.765100E+00	0.925700E+00
14.600	-0.593530E+01	0.543570E+01	0.284860E+01	0.244950E+01	0.631500E+00	0.935900E+00
15.000	-0.573840E+01	0.568870E+01	0.314100E+01	0.190750E+01	0.368400E+00	0.957400E+00
15.200	-0.560120E+01	0.580490E+01	0.323240E+01	0.164470E+01	0.237700E+00	0.969000E+00
15.800	-0.504540E+01	0.608400E+01	0.330930E+01	0.100390E+01	0.153800E+00	0.100600E+01
16.400	-0.431900E+01	0.621130E+01	0.321220E+01	0.588300E+00	0.542000E+00	0.104320E+01
16.600	-0.405390E+01	0.621240E+01	0.316270E+01	0.487300E+00	0.669100E+00	0.105440E+01
16.800	-0.378390E+01	0.619170E+01	0.310980E+01	0.400500E+00	0.794100E+00	0.106460E+01
17.000	-0.351300E+01	0.615000E+01	0.305620E+01	0.326400E+00	0.915800E+00	0.107370E+01
17.200	-0.324510E+01	0.608800E+01	0.300370E+01	0.262800E+00	0.103420E+01	0.108160E+01
17.400	-0.298350E+01	0.600740E+01	0.295390E+01	0.208300E+00	0.114860E+01	0.108810E+01
17.600	-0.273140E+01	0.591030E+01	0.290810E+01	0.161800E+00	0.125840E+01	0.109300E+01
17.800	-0.249090E+01	0.579900E+01	0.286720E+01	0.122300E+00	0.136330E+01	0.109630E+01
18.000	-0.226400E+01	0.567620E+01	0.283160E+01	0.889000E-01	0.146300E+01	0.109810E+01
18.200	-0.205180E+01	0.554450E+01	0.280120E+01	0.609000E-01	0.155740E+01	0.109830E+01
18.400	-0.185490E+01	0.540660E+01	0.277560E+01	0.375000E-01	0.164640E+01	0.109720E+01
18.600	-0.167350E+01	0.526510E+01	0.275400E+01	0.182000E-01	0.173000E+01	0.109460E+01
18.800	-0.150740E+01	0.512250E+01	0.273550E+01	0.250000E-02	0.180840E+01	0.109070E+01
19.000	-0.135600E+01	0.498100E+01	0.271870E+01	-0.101000E-01	0.188170E+01	0.108550E+01
19.200	-0.121860E+01	0.484270E+01	0.270260E+01	-0.198000E-01	0.195000E+01	0.107920E+01
19.600	-0.982500E+00	0.458200E+01	0.266790E+01	-0.319000E-01	0.207300E+01	0.106340E+01
19.800	-0.881800E+00	0.446220E+01	0.264780E+01	-0.348000E-01	0.212800E+01	0.105410E+01
20.000	-0.791400E+00	0.435040E+01	0.262530E+01	-0.357000E-01	0.217900E+01	0.104400E+01
20.200	-0.710300E+00	0.424720E+01	0.260020E+01	-0.348000E-01	0.222630E+01	0.103300E+01

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3	20.400	-0.637600E+00	0.415250E+01	0.257280E+01	-0.319000E-01	0.227000E+01 0.102130E+01
4	20.600	-0.572500E+00	0.406620E+01	0.254320E+01	-0.269000E-01	0.231040E+01 0.100910E+01
5	20.800	-0.514300E+00	0.398820E+01	0.251200E+01	-0.197000E-01	0.234760E+01 0.996100E+00
6	21.000	-0.462100E+00	0.391780E+01	0.247940E+01	-0.950000E-02	0.238190E+01 0.982500E+00
7	21.200	-0.415300E+00	0.385460E+01	0.244610E+01	0.430000E-02	0.241330E+01 0.968300E+00
8	21.400	-0.373400E+00	0.379800E+01	0.241240E+01	0.235000E-01	0.244200E+01 0.953500E+00
9	21.600	-0.335700E+00	0.374740E+01	0.237870E+01	0.510000E-01	0.246800E+01 0.938200E+00
10	21.800	-0.301900E+00	0.370230E+01	0.234470E+01	0.932000E-01	0.249160E+01 0.922300E+00
11	22.000	-0.271600E+00	0.366210E+01	0.230920E+01	0.165000E+00	0.251260E+01 0.906000E+00
12	22.200	-0.244200E+00	0.362620E+01	0.226350E+01	0.313300E+00	0.253130E+01 0.889300E+00
13	22.400	-0.219600E+00	0.359420E+01	0.212930E+01	0.748300E+00	0.254750E+01 0.872000E+00
14	22.600	-0.197300E+00	0.356570E+01	0.124740E+01	0.184960E+01	0.256140E+01 0.854400E+00
15	22.800	-0.177200E+00	0.354020E+01	0.592300E+00	0.212650E+01	0.257280E+01 0.836500E+00
16	23.000	-0.159000E+00	0.351750E+01	0.392700E+00	0.215130E+01	0.258180E+01 0.818200E+00
17	23.200	-0.142500E+00	0.349710E+01	0.303800E+00	0.214790E+01	0.258820E+01 0.799600E+00
18	23.400	-0.127600E+00	0.347890E+01	0.253600E+00	0.214010E+01	0.259190E+01 0.780800E+00
19	23.600	-0.114000E+00	0.346250E+01	0.221100E+00	0.213330E+01	0.259280E+01 0.761700E+00
20	23.800	-0.101700E+00	0.344780E+01	0.198000E+00	0.212910E+01	0.259070E+01 0.742500E+00
21	24.000	-0.905000E-01	0.343450E+01	0.180600E+00	0.212860E+01	0.258520E+01 0.723100E+00
22	24.200	-0.803000E-01	0.342260E+01	0.166900E+00	0.213260E+01	0.257610E+01 0.703700E+00
23	24.400	-0.711000E-01	0.341180E+01	0.155700E+00	0.214150E+01	0.256300E+01 0.684200E+00
24	24.600	-0.626000E-01	0.340200E+01	0.146300E+00	0.215590E+01	0.254530E+01 0.664600E+00
25	24.800	-0.550000E-01	0.339310E+01	0.138200E+00	0.217640E+01	0.252230E+01 0.645100E+00
26	25.000	-0.480000E-01	0.338500E+01	0.131100E+00	0.220350E+01	0.249350E+01 0.625600E+00
27	25.200	-0.416000E-01	0.337760E+01	0.124800E+00	0.223770E+01	0.245770E+01 0.606300E+00
28	25.400	-0.358000E-01	0.337080E+01	0.119200E+00	0.227950E+01	0.241400E+01 0.586900E+00
29	25.600	-0.305000E-01	0.336460E+01	0.114100E+00	0.232940E+01	0.236110E+01 0.567900E+00
30	25.800	-0.257000E-01	0.335890E+01	0.109400E+00	0.238740E+01	0.229780E+01 0.549100E+00
31	26.000	-0.213000E-01	0.335370E+01	0.105100E+00	0.245330E+01	0.222270E+01 0.530500E+00
32	26.200	-0.174000E-01	0.334890E+01	0.101100E+00	0.252640E+01	0.213480E+01 0.512200E+00
33	26.400	-0.138000E-01	0.334450E+01	0.974000E-01	0.260510E+01	0.203340E+01 0.494000E+00
34	26.600	-0.105000E-01	0.334030E+01	0.940000E-01	0.268760E+01	0.191870E+01 0.476300E+00
35	26.800	-0.750000E-02	0.333650E+01	0.907000E-01	0.277080E+01	0.179190E+01 0.458700E+00
36	28.000	0.530000E-02	0.331850E+01	0.746000E-01	0.314190E+01	0.363600E+00 0.206350E+01
37	29.800	0.141000E-01	0.330150E+01	0.575000E-01	0.326280E+01	0.250400E+00 0.205080E+01
38	30.000	0.146000E-01	0.330000E+01	0.559000E-01	0.326510E+01	0.240500E+00 0.204750E+01
39	30.200	0.150000E-01	0.329870E+01	0.544000E-01	0.326670E+01	0.230600E+00 0.204520E+01
40	30.400	0.154000E-01	0.329740E+01	0.530000E-01	0.326780E+01	0.220900E+00 0.204300E+01
41	30.600	0.157000E-01	0.329620E+01	0.516000E-01	0.326840E+01	0.211800E+00 0.204060E+01
42	30.800	0.160000E-01	0.329500E+01	0.503000E-01	0.326890E+01	0.203100E+00 0.203820E+01
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Table 3: $(3)^1\Sigma^+ - (3-7)^1\Sigma^+$ transitions

R	3-3	3-4	3-5	3-6	3-7
3.200	0.323900E+00	-0.262000E-01	-0.136830E+01	0.203380E+01	0.156490E+01
3.400	0.290900E+00	-0.132300E+00	-0.110120E+01	0.233500E+01	0.151200E+01
3.600	0.162800E+00	-0.211300E+00	-0.103390E+01	0.238440E+01	0.162300E+01
3.800	-0.241000E-01	0.229400E+00	-0.108100E+01	0.232970E+01	0.174560E+01
4.200	-0.310800E+00	0.439500E+00	-0.925100E+00	0.204300E+01	0.159740E+01
4.600	0.100000E-02	0.838300E+00	-0.152200E+00	0.163090E+01	0.623700E+00
4.800	0.344600E+00	0.922400E+00	0.331200E+00	0.146330E+01	0.203200E+00
5.000	0.707100E+00	0.939400E+00	0.761900E+00	0.134060E+01	0.130400E+00
5.200	0.103320E+01	0.952700E+00	0.111270E+01	0.125740E+01	0.384300E+00
5.400	0.130080E+01	0.100520E+01	0.139510E+01	0.120350E+01	0.557900E+00
5.600	0.150580E+01	0.111290E+01	0.162690E+01	0.117190E+01	0.653900E+00
5.800	0.164920E+01	0.127520E+01	0.181870E+01	0.116040E+01	0.677600E+00
6.000	0.173420E+01	0.148250E+01	0.197280E+01	0.116930E+01	0.643100E+00
6.200	0.176540E+01	0.172040E+01	0.208620E+01	0.119960E+01	0.556800E+00
6.400	0.175010E+01	0.197300E+01	0.215370E+01	0.125020E+01	0.430300E+00
6.600	0.169790E+01	0.222610E+01	0.217020E+01	0.131850E+01	0.272300E+00
6.800	0.161930E+01	0.246770E+01	0.213240E+01	0.140150E+01	0.904000E-01
7.000	0.152460E+01	0.268880E+01	0.203950E+01	0.149560E+01	-0.111100E+00
7.200	0.142270E+01	0.288190E+01	0.189360E+01	0.159810E+01	-0.328100E+00
7.400	0.132060E+01	0.304050E+01	0.170140E+01	0.170650E+01	-0.557600E+00
7.600	0.122380E+01	0.315830E+01	0.147390E+01	0.181920E+01	-0.796800E+00
7.800	0.113620E+01	0.323070E+01	0.122630E+01	0.193530E+01	-0.104060E+01
8.200	0.999900E+00	0.323740E+01	0.738000E+00	0.217600E+01	-0.151410E+01
8.400	0.955300E+00	0.317980E+01	0.525000E+00	0.230080E+01	-0.172400E+01
8.600	0.928500E+00	0.309100E+01	0.343600E+00	0.242900E+01	-0.190280E+01
8.800	0.920700E+00	0.297890E+01	0.196600E+00	0.256120E+01	-0.204210E+01
9.000	0.932900E+00	0.285060E+01	0.837000E-01	0.269780E+01	-0.213550E+01
9.200	0.965700E+00	0.271210E+01	0.260000E-02	0.283890E+01	-0.217840E+01
9.400	0.101960E+01	0.256810E+01	-0.493000E-01	0.298380E+01	-0.216690E+01
9.600	0.109470E+01	0.242220E+01	-0.755000E-01	0.313100E+01	-0.209670E+01
9.800	0.119070E+01	0.227650E+01	-0.797000E-01	0.327700E+01	-0.196340E+01
10.000	0.130680E+01	0.213200E+01	-0.656000E-01	0.341490E+01	-0.176190E+01
10.200	0.144120E+01	0.198820E+01	-0.381000E-01	0.353450E+01	-0.149130E+01
10.400	0.159080E+01	0.184350E+01	0.260000E-02	0.362140E+01	-0.115700E+01
10.600	0.175040E+01	0.169490E+01	0.340000E-01	0.366050E+01	-0.777800E+00
10.800	0.191180E+01	0.153920E+01	0.630000E-01	0.364390E+01	-0.385800E+00
11.000	0.206360E+01	0.137470E+01	0.752000E-01	0.357870E+01	-0.198000E-01
11.200	0.219350E+01	0.120230E+01	0.610000E-01	0.348790E+01	0.289400E+00
11.400	0.229040E+01	0.102640E+01	-0.133000E-01	0.339980E+01	0.528400E+00
11.600	0.234800E+01	0.853500E+00	-0.711000E-01	0.333610E+01	0.700700E+00
11.800	0.236550E+01	0.688900E+00	-0.191500E+00	0.330560E+01	0.819300E+00
12.000	0.234650E+01	0.535300E+00	-0.343300E+00	0.330590E+01	0.899400E+00
12.200	0.229620E+01	0.392300E+00	-0.520500E+00	0.332920E+01	0.954000E+00
12.400	0.221960E+01	0.256800E+00	-0.716100E+00	0.336670E+01	0.992900E+00
12.600	0.212110E+01	0.124700E+00	-0.923700E+00	0.341110E+01	0.102200E+01
12.800	0.200340E+01	-0.920000E-02	-0.113720E+01	0.345750E+01	0.104470E+01
13.000	0.186870E+01	-0.150100E+00	-0.135130E+01	0.350260E+01	0.106270E+01
13.200	0.171810E+01	-0.303600E+00	-0.156100E+01	0.354490E+01	0.107640E+01
13.400	0.155230E+01	-0.475400E+00	-0.176120E+01	0.358350E+01	0.108610E+01
13.600	0.137150E+01	-0.671800E+00	-0.194620E+01	0.361820E+01	0.109190E+01
13.800	0.117590E+01	-0.898700E+00	-0.210930E+01	0.364900E+01	0.109380E+01
14.000	0.965600E+00	-0.116110E+01	-0.224230E+01	0.367600E+01	0.109200E+01
14.200	0.740600E+00	-0.146140E+01	-0.233600E+01	0.369930E+01	0.108640E+01
14.400	0.501200E+00	-0.179700E+01	-0.238180E+01	0.371890E+01	0.107730E+01
14.600	0.247700E+00	-0.215880E+01	-0.237540E+01	0.373480E+01	0.106470E+01
15.000	-0.298300E+00	-0.290190E+01	-0.222330E+01	0.375470E+01	0.103020E+01
15.200	-0.588000E+00	-0.325570E+01	-0.210200E+01	0.375820E+01	0.100840E+01
15.800	-0.149550E+01	-0.418500E+01	-0.170370E+01	0.373860E+01	0.927900E+00
16.400	-0.237750E+01	-0.494240E+01	-0.135980E+01	0.366550E+01	0.829100E+00
16.600	-0.264130E+01	-0.516410E+01	-0.126070E+01	0.362710E+01	0.793900E+00
16.800	-0.287970E+01	-0.537100E+01	-0.116800E+01	0.358120E+01	0.758100E+00
17.000	-0.308690E+01	-0.556230E+01	-0.108180E+01	0.352780E+01	0.721700E+00
17.200	-0.325700E+01	-0.573630E+01	-0.100050E+01	0.346640E+01	0.685500E+00
17.400	-0.338510E+01	-0.589100E+01	-0.923900E+00	0.339680E+01	0.649800E+00
17.600	-0.346740E+01	-0.602390E+01	-0.851500E+00	0.331920E+01	0.614900E+00
17.800	-0.350180E+01	-0.613170E+01	-0.782900E+00	0.323340E+01	0.581100E+00
18.000	-0.348750E+01	-0.621140E+01	-0.718000E+00	0.313970E+01	0.548900E+00
18.200	-0.342600E+01	-0.625960E+01	-0.656500E+00	0.303850E+01	0.518600E+00
18.400	-0.332050E+01	-0.627350E+01	-0.598400E+00	0.293020E+01	0.490500E+00
18.600	-0.317630E+01	-0.625090E+01	-0.543800E+00	0.281580E+01	0.464700E+00
18.800	-0.300020E+01	-0.619100E+01	-0.492600E+00	0.269620E+01	0.441500E+00
19.000	-0.280020E+01	-0.609400E+01	-0.445000E+00	0.257290E+01	0.421000E+00
19.200	-0.258460E+01	-0.596210E+01	-0.401200E+00	0.244720E+01	0.403400E+00
19.600	-0.213910E+01	-0.560840E+01	-0.325200E+00	0.219530E+01	0.376700E+00
19.800	-0.192310E+01	-0.539670E+01	-0.293200E+00	0.207210E+01	0.367400E+00
20.000	-0.171840E+01	-0.516940E+01	-0.265300E+00	0.195250E+01	0.360700E+00
20.200	-0.152840E+01	-0.493220E+01	-0.241500E+00	0.183770E+01	0.356300E+00

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3	20.400	-0.135510E+01	-0.469020E+01	-0.221800E+00	0.172830E+01	0.354100E+00
4	20.600	-0.119900E+01	-0.444780E+01	-0.206300E+00	0.162490E+01	0.353800E+00
5	20.800	-0.106020E+01	-0.420890E+01	-0.195400E+00	0.152800E+01	0.355200E+00
6	21.000	-0.937800E+00	-0.397610E+01	-0.189500E+00	0.143750E+01	0.358100E+00
7	21.200	-0.830600E+00	-0.375150E+01	-0.189400E+00	0.135340E+01	0.362500E+00
8	21.400	-0.737300E+00	-0.353620E+01	-0.196700E+00	0.127560E+01	0.368000E+00
9	21.600	-0.656300E+00	-0.333080E+01	-0.214800E+00	0.120380E+01	0.374500E+00
10	21.800	-0.586300E+00	-0.313470E+01	-0.250500E+00	0.113770E+01	0.381700E+00
11	22.000	-0.525800E+00	-0.294550E+01	-0.320500E+00	0.107700E+01	0.389800E+00
12	22.200	-0.473700E+00	-0.275090E+01	-0.476600E+00	0.102140E+01	0.398400E+00
13	22.400	-0.428700E+00	-0.245440E+01	-0.948700E+00	0.970500E+00	0.407700E+00
14	22.600	-0.389900E+00	-0.132970E+01	-0.209450E+01	0.924100E+00	0.417200E+00
15	22.800	-0.356500E+00	-0.572400E+00	-0.226900E+01	0.881800E+00	0.427100E+00
16	23.000	-0.327500E+00	-0.350400E+00	-0.218010E+01	0.843400E+00	0.437300E+00
17	23.200	-0.302500E+00	-0.255200E+00	-0.206870E+01	0.808700E+00	0.447800E+00
18	23.400	-0.280800E+00	-0.203700E+00	-0.195790E+01	0.777500E+00	0.458400E+00
19	23.600	-0.262000E+00	-0.171900E+00	-0.185170E+01	0.749500E+00	0.469200E+00
20	23.800	-0.245600E+00	-0.150500E+00	-0.175100E+01	0.724600E+00	0.480100E+00
21	24.000	-0.231300E+00	-0.135200E+00	-0.165570E+01	0.702700E+00	0.491000E+00
22	24.200	-0.218800E+00	-0.123700E+00	-0.156560E+01	0.683700E+00	0.502000E+00
23	24.400	-0.207900E+00	-0.114800E+00	-0.148010E+01	0.667500E+00	0.513100E+00
24	24.600	-0.198300E+00	-0.107600E+00	-0.139900E+01	0.654100E+00	0.524100E+00
25	24.800	-0.189700E+00	-0.101700E+00	-0.132170E+01	0.643300E+00	0.535000E+00
26	25.000	-0.182200E+00	-0.967000E-01	-0.124770E+01	0.635200E+00	0.546000E+00
27	25.200	-0.175500E+00	-0.925000E-01	-0.117660E+01	0.629800E+00	0.556800E+00
28	25.400	-0.169600E+00	-0.888000E-01	-0.110800E+01	0.626800E+00	0.567400E+00
29	25.600	-0.164200E+00	-0.855000E-01	-0.104120E+01	0.626400E+00	0.578000E+00
30	25.800	-0.159400E+00	-0.825000E-01	-0.975900E+00	0.628200E+00	0.588500E+00
31	26.000	-0.155000E+00	-0.799000E-01	-0.911700E+00	0.632000E+00	0.598700E+00
32	26.200	-0.151100E+00	-0.774000E-01	-0.848200E+00	0.637300E+00	0.608800E+00
33	26.400	-0.147500E+00	-0.752000E-01	-0.785300E+00	0.643600E+00	0.618800E+00
34	26.600	-0.144200E+00	-0.731000E-01	-0.723100E+00	0.650100E+00	0.628400E+00
35	26.800	-0.141100E+00	-0.711000E-01	-0.661800E+00	0.656100E+00	0.637400E+00
36	28.000	-0.126800E+00	-0.615000E-01	-0.353000E+00	0.689900E+00	0.245000E-01
37	29.800	-0.111900E+00	-0.509000E-01	-0.152800E+00	0.749600E+00	0.336000E-01
38	30.000	-0.110500E+00	-0.499000E-01	-0.142400E+00	0.754800E+00	0.370000E-01
39	30.200	-0.109100E+00	-0.489000E-01	-0.133300E+00	0.759900E+00	0.403000E-01
40	30.400	-0.107800E+00	-0.480000E-01	-0.125300E+00	0.764700E+00	0.431000E-01
41	30.600	-0.106500E+00	-0.471000E-01	-0.118200E+00	0.769300E+00	0.457000E-01
42	30.800	-0.105200E+00	-0.462000E-01	-0.111900E+00	0.773600E+00	0.479000E-01
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Table 4: $(4)^1\Sigma^+ - (4-7)^1\Sigma^+$ transitions

R	4-4	4-5	4-6	4-7
3.200	-0.476000E-01	0.933000E-01	-0.346480E+01	0.540700E+00
3.400	-0.712100E+00	0.694000E-01	-0.343580E+01	0.813300E+00
3.600	-0.134840E+01	-0.460000E-01	-0.294840E+01	0.138410E+01
3.800	-0.176060E+01	-0.354400E+00	-0.245060E+01	0.179100E+01
4.200	-0.238770E+01	-0.919500E+00	-0.242100E+01	0.243230E+01
4.600	-0.349070E+01	-0.714100E+00	-0.306630E+01	0.288240E+01
4.800	-0.399100E+01	-0.278400E+00	-0.334600E+01	0.291060E+01
5.000	-0.431790E+01	-0.160100E+00	-0.351730E+01	0.290180E+01
5.200	-0.450470E+01	-0.484900E+00	-0.360930E+01	0.287490E+01
5.400	-0.460100E+01	-0.673000E+00	-0.366260E+01	0.284000E+01
5.600	-0.463620E+01	-0.739800E+00	-0.369890E+01	0.280800E+01
5.800	-0.462250E+01	-0.706000E+00	-0.372450E+01	0.278990E+01
6.000	-0.456420E+01	-0.589000E+00	-0.373820E+01	0.278640E+01
6.200	-0.446160E+01	-0.402700E+00	-0.373600E+01	0.280130E+01
6.400	-0.431430E+01	-0.159000E+00	-0.371250E+01	0.283050E+01
6.600	-0.412170E+01	-0.130500E+00	-0.366100E+01	0.287030E+01
6.800	-0.388220E+01	-0.454200E+00	-0.357450E+01	0.291620E+01
7.000	-0.359280E+01	-0.798600E+00	-0.344660E+01	0.296380E+01
7.200	-0.325060E+01	-0.114740E+01	-0.327280E+01	0.300770E+01
7.400	-0.285520E+01	-0.148080E+01	-0.305290E+01	0.304110E+01
7.600	-0.241240E+01	-0.177690E+01	-0.279320E+01	0.305690E+01
7.800	-0.193720E+01	-0.201630E+01	-0.250670E+01	0.304930E+01
8.200	-0.978600E+00	-0.228810E+01	-0.192720E+01	0.295370E+01
8.400	-0.539100E+00	-0.232770E+01	-0.166950E+01	0.287280E+01
8.600	-0.145600E+00	-0.231910E+01	-0.144930E+01	0.277890E+01
8.800	0.196200E+00	-0.227600E+01	-0.127220E+01	0.267950E+01
9.000	0.485800E+00	-0.221000E+01	-0.114010E+01	0.258040E+01
9.200	0.725100E+00	-0.212910E+01	-0.105210E+01	0.248380E+01
9.400	0.917300E+00	-0.203820E+01	-0.100640E+01	0.238990E+01
9.600	0.106560E+01	-0.193980E+01	-0.100050E+01	0.229540E+01
9.800	0.117270E+01	-0.183430E+01	-0.103070E+01	0.219540E+01
10.000	0.124140E+01	-0.172060E+01	-0.109150E+01	0.208170E+01
10.200	0.127440E+01	-0.159710E+01	-0.117360E+01	0.194630E+01
10.400	0.127510E+01	-0.146150E+01	-0.126110E+01	0.178210E+01
10.600	0.124870E+01	-0.131190E+01	-0.133060E+01	0.158740E+01
10.800	0.120310E+01	-0.114710E+01	-0.135420E+01	0.137150E+01
11.000	0.114840E+01	-0.967300E+00	-0.130900E+01	0.115550E+01
11.200	0.109630E+01	-0.774600E+00	-0.118690E+01	0.968400E+00
11.400	0.105640E+01	-0.572500E+00	-0.999200E+00	0.839700E+00
11.600	0.103340E+01	-0.365000E+00	-0.770100E+00	0.791600E+00
11.800	0.102630E+01	-0.155300E+00	-0.525900E+00	0.833200E+00
12.000	0.102970E+01	0.552000E-01	-0.286200E+00	0.954800E+00
12.200	0.103580E+01	0.266600E+00	-0.617000E-01	0.112850E+01
12.400	0.103680E+01	0.480300E+00	0.145000E+00	0.131760E+01
12.600	0.102510E+01	0.698400E+00	0.335500E+00	0.149070E+01
12.800	0.993400E+00	0.923600E+00	0.514400E+00	0.163050E+01
13.000	0.934500E+00	0.115890E+01	0.686800E+00	0.173350E+01
13.200	0.840300E+00	0.140680E+01	0.858400E+00	0.180420E+01
13.400	0.701200E+00	0.166940E+01	0.103460E+01	0.184970E+01
13.600	0.505600E+00	0.194650E+01	0.122010E+01	0.187720E+01
13.800	0.240000E+00	0.223450E+01	0.141870E+01	0.189190E+01
14.000	-0.109400E+00	0.252300E+01	0.163170E+01	0.189650E+01
14.200	-0.552700E+00	0.279310E+01	0.185720E+01	0.189150E+01
14.400	-0.108910E+01	0.301730E+01	0.208780E+01	0.187480E+01
14.600	-0.169920E+01	0.316580E+01	0.231170E+01	0.184320E+01
15.000	-0.298290E+01	0.317720E+01	0.268770E+01	0.172980E+01
15.200	-0.357570E+01	0.306050E+01	0.282540E+01	0.165210E+01
15.800	-0.499250E+01	0.252910E+01	0.307120E+01	0.138890E+01
16.400	-0.606530E+01	0.204710E+01	0.320340E+01	0.114220E+01
16.600	-0.640320E+01	0.191850E+01	0.324420E+01	0.106940E+01
16.800	-0.674650E+01	0.180510E+01	0.328760E+01	0.100150E+01
17.000	-0.710290E+01	0.170580E+01	0.333580E+01	0.937900E+00
17.200	-0.747700E+01	0.161880E+01	0.338910E+01	0.878800E+00
17.400	-0.787340E+01	0.154260E+01	0.344860E+01	0.823800E+00
17.600	-0.829510E+01	0.147610E+01	0.351440E+01	0.772500E+00
17.800	-0.874350E+01	0.141820E+01	0.358670E+01	0.724600E+00
18.000	-0.921880E+01	0.136770E+01	0.366500E+01	0.679900E+00
18.200	-0.971960E+01	0.132370E+01	0.374880E+01	0.638300E+00
18.400	-0.102426E+02	0.128570E+01	0.383740E+01	0.599300E+00
18.600	-0.107832E+02	0.125290E+01	0.392990E+01	0.562800E+00
18.800	-0.113351E+02	0.122490E+01	0.402520E+01	0.528600E+00
19.000	-0.118914E+02	0.120140E+01	0.412220E+01	0.496400E+00
19.200	-0.124446E+02	0.118250E+01	0.422020E+01	0.466500E+00
19.600	-0.135135E+02	0.115850E+01	0.441590E+01	0.412100E+00
19.800	-0.140175E+02	0.115420E+01	0.451310E+01	0.387600E+00
20.000	-0.144954E+02	0.115600E+01	0.460970E+01	0.364900E+00
20.200	-0.149447E+02	0.116520E+01	0.470590E+01	0.344000E+00

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3	20.400	-0.153641E+02	0.118310E+01	0.480240E+01	0.325100E+00
4	20.600	-0.157529E+02	0.121210E+01	0.489940E+01	0.307700E+00
5	20.800	-0.161119E+02	0.125570E+01	0.499790E+01	0.292600E+00
6	21.000	-0.164409E+02	0.131870E+01	0.509820E+01	0.279500E+00
7	21.200	-0.167401E+02	0.140930E+01	0.520130E+01	0.268700E+00
8	21.400	-0.170079E+02	0.154090E+01	0.530710E+01	0.260100E+00
9	21.600	-0.172391E+02	0.173830E+01	0.541540E+01	0.254100E+00
10	21.800	-0.174193E+02	0.205160E+01	0.552420E+01	0.250700E+00
11	22.000	-0.175026E+02	0.259950E+01	0.562560E+01	0.250000E+00
12	22.200	-0.172952E+02	0.373020E+01	0.568540E+01	0.251600E+00
13	22.400	-0.153640E+02	0.672400E+01	0.543940E+01	0.247900E+00
14	22.600	-0.452400E+01	0.803720E+01	0.295260E+01	0.159400E+00
15	22.800	-0.654400E+00	0.369950E+01	0.114210E+01	0.844000E-01
16	23.000	-0.139800E+00	0.212760E+01	0.606400E+00	0.601000E-01
17	23.200	-0.860000E-02	0.142800E+01	0.375800E+00	0.486000E-01
18	23.400	0.386000E-01	0.104330E+01	0.251100E+00	0.416000E-01
19	23.600	0.586000E-01	0.803400E+00	0.174700E+00	0.369000E-01
20	23.800	0.677000E-01	0.641400E+00	0.124100E+00	0.333000E-01
21	24.000	0.717000E-01	0.525800E+00	0.888000E-01	0.304000E-01
22	24.200	0.731000E-01	0.439900E+00	0.633000E-01	0.281000E-01
23	24.400	0.732000E-01	0.374200E+00	0.444000E-01	0.260000E-01
24	24.600	0.725000E-01	0.322700E+00	0.303000E-01	0.243000E-01
25	24.800	0.713000E-01	0.281600E+00	0.197000E-01	0.227000E-01
26	25.000	0.699000E-01	0.248300E+00	0.118000E-01	0.213000E-01
27	25.200	0.684000E-01	0.221100E+00	0.590000E-02	0.201000E-01
28	25.400	0.668000E-01	0.198700E+00	0.170000E-02	0.188000E-01
29	25.600	0.652000E-01	0.179900E+00	-0.120000E-02	0.178000E-01
30	25.800	0.636000E-01	0.164100E+00	-0.290000E-02	0.168000E-01
31	26.000	0.620000E-01	0.150800E+00	-0.380000E-02	0.160000E-01
32	26.200	0.604000E-01	0.139600E+00	-0.380000E-02	0.152000E-01
33	26.400	0.589000E-01	0.130000E+00	-0.300000E-02	0.142000E-01
34	26.600	0.575000E-01	0.121800E+00	-0.190000E-02	0.135000E-01
35	26.800	0.560000E-01	0.114700E+00	0.300000E-03	0.127000E-01
36	28.000	0.486000E-01	0.860000E-01	0.990000E-02	0.500000E-02
37	29.800	0.399000E-01	0.653000E-01	0.710000E-02	0.610000E-02
38	30.000	0.391000E-01	0.636000E-01	0.790000E-02	0.880000E-02
39	30.200	0.383000E-01	0.622000E-01	0.790000E-02	0.920000E-02
40	30.400	0.375000E-01	0.608000E-01	0.760000E-02	0.900000E-02
41	30.600	0.368000E-01	0.595000E-01	0.750000E-02	0.910000E-02
42	30.800	0.361000E-01	0.582000E-01	0.740000E-02	0.930000E-02
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Table 5: $(1)^3\Sigma^+ - (1-7)^3\Sigma^+$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
4.800	0.158500E+00	-0.197400E+01	-0.283580E+01	-0.756300E+00	0.966300E+00	-0.550300E+00	0.390000E-01
5.000	0.249400E+00	-0.174820E+01	-0.310580E+01	-0.787100E+00	0.835100E+00	-0.535000E+00	0.594000E-01
5.200	0.330600E+00	-0.146300E+01	-0.336990E+01	-0.770600E+00	0.727900E+00	-0.505800E+00	-0.866000E-01
5.400	0.398000E+00	-0.109910E+01	-0.361760E+01	-0.730700E+00	0.643200E+00	-0.473100E+00	-0.114400E+00
5.600	0.449500E+00	-0.636600E+00	-0.383090E+01	-0.682700E+00	0.574600E+00	-0.440100E+00	-0.141200E+00
5.800	0.484700E+00	-0.661000E-01	-0.397940E+01	-0.634500E+00	0.516700E+00	-0.408100E+00	-0.166400E+00
6.000	0.504300E+00	0.590500E+00	-0.402670E+01	-0.589900E+00	0.466300E+00	-0.377700E+00	-0.189700E+00
6.200	0.509800E+00	0.126950E+01	-0.395310E+01	-0.550300E+00	0.421500E+00	-0.348900E+00	-0.210800E+00
6.400	0.503400E+00	0.189420E+01	-0.377780E+01	-0.516000E+00	0.381400E+00	-0.322100E+00	-0.229700E+00
6.600	0.487200E+00	0.241940E+01	-0.354480E+01	-0.486700E+00	0.345300E+00	-0.297600E+00	-0.246400E+00
6.800	0.463500E+00	0.284050E+01	-0.329330E+01	-0.461900E+00	0.312900E+00	-0.275400E+00	-0.261300E+00
7.000	0.434500E+00	0.317300E+01	-0.304520E+01	-0.441000E+00	0.284000E+00	-0.256000E+00	-0.274900E+00
7.200	0.402000E+00	0.343610E+01	-0.280960E+01	-0.423300E+00	0.258200E+00	-0.239300E+00	-0.288200E+00
7.400	0.367500E+00	0.364570E+01	-0.258910E+01	-0.408000E+00	0.235300E+00	-0.225300E+00	-0.302900E+00
7.600	0.332300E+00	0.381350E+01	-0.238380E+01	-0.394600E+00	0.214900E+00	-0.214900E+00	-0.321700E+00
7.800	0.297400E+00	0.394820E+01	-0.219260E+01	-0.382500E+00	0.196600E+00	-0.205100E+00	-0.349700E+00
8.200	0.231000E+00	0.414220E+01	-0.184830E+01	-0.360100E+00	0.165000E+00	-0.194500E+00	-0.501000E+00
8.400	0.200400E+00	0.421000E+01	-0.169300E+01	-0.349000E+00	0.150600E+00	-0.192800E+00	-0.745100E+00
8.600	0.171900E+00	0.426250E+01	-0.154770E+01	-0.337300E+00	0.136400E+00	-0.196000E+00	-0.104070E+01
8.800	0.145800E+00	0.430200E+01	-0.141160E+01	-0.324700E+00	0.121400E+00	-0.369700E+00	-0.108150E+01
9.000	0.121900E+00	0.433040E+01	-0.128390E+01	-0.310700E+00	0.104200E+00	-0.116180E+01	-0.170900E+00
9.200	0.100400E+00	0.434920E+01	-0.116390E+01	-0.295000E+00	0.815000E-01	-0.118650E-01	-0.177600E+00
9.400	0.812000E-01	0.435990E+01	-0.105110E+01	-0.277000E+00	0.454000E-01	-0.121250E+01	-0.180300E+00
9.600	0.641000E-01	0.436360E+01	-0.944900E+00	-0.256000E+00	-0.330000E-01	-0.123880E+01	-0.182000E+00
9.800	0.492000E-01	0.436110E+01	-0.844800E+00	-0.231000E+00	-0.366800E+00	-0.121290E+01	-0.183300E+00
10.000	0.361000E-01	0.435330E+01	-0.750600E+00	-0.200600E+00	-0.119460E+01	0.505600E+00	-0.184200E+00
10.200	0.248000E-01	0.434100E+01	-0.661900E+00	-0.162200E+00	-0.129540E+01	0.297500E+00	-0.184700E+00
10.400	0.151000E-01	0.432470E+01	-0.578600E+00	-0.110700E+00	-0.134150E+01	0.237600E+00	-0.184900E+00
10.600	0.690000E-02	0.430510E+01	-0.500400E+00	-0.352000E-01	-0.138010E+01	0.209300E+00	-0.184800E+00
10.800	0.000000E+00	0.428260E+01	-0.427200E+00	0.922000E-01	-0.141080E+01	0.192600E+00	-0.184600E+00
11.000	-0.570000E-02	0.425770E+01	-0.359000E+00	0.354000E+00	-0.140310E+01	0.181200E+00	-0.184300E+00
11.200	-0.104000E-01	0.423090E+01	-0.295500E+00	0.884300E+00	-0.118740E+01	0.172700E+00	-0.183900E+00
11.400	-0.141000E-01	0.420250E+01	-0.236700E+00	0.129320E+01	-0.787700E+00	0.165900E+00	-0.183700E+00
11.600	-0.170000E-01	0.417280E+01	-0.182600E+00	0.144160E+01	-0.564000E+00	0.160000E+00	-0.183700E+00
11.800	-0.191000E-01	0.414230E+01	-0.132900E+00	0.151700E+01	-0.448000E+00	0.154700E+00	-0.184000E+00
12.000	-0.206000E-01	0.411120E+01	-0.875000E-01	0.157080E+01	-0.376500E+00	0.149700E+00	-0.184600E+00
12.200	-0.215000E-01	0.407970E+01	-0.463000E-01	0.161580E+01	-0.326300E+00	0.144900E+00	-0.185700E+00
12.400	-0.219000E-01	0.404810E+01	0.910000E-02	0.165630E+01	-0.287800E+00	0.140100E+00	-0.187200E+00
12.600	-0.219000E-01	0.401670E+01	0.242000E-01	0.169390E+01	-0.256500E+00	0.135500E+00	-0.189200E+00
12.800	-0.215000E-01	0.398550E+01	0.539000E-01	0.172930E+01	-0.230100E+00	0.130800E+00	-0.191700E+00
13.000	-0.208000E-01	0.395490E+01	0.801000E-01	0.176300E+01	-0.207100E+00	0.126100E+00	-0.194600E+00
13.200	-0.199000E-01	0.392480E+01	0.103100E+00	0.179510E+01	-0.186800E+00	0.121500E+00	-0.197900E+00
13.400	-0.188000E-01	0.389540E+01	0.123200E+00	0.182580E+01	-0.168600E+00	0.116900E+00	-0.201500E+00
13.600	-0.175000E-01	0.386690E+01	0.140500E+00	0.185500E+01	-0.152200E+00	0.112300E+00	-0.205500E+00
13.800	-0.161000E-01	0.383920E+01	0.155300E+00	0.188290E+01	-0.137300E+00	0.107700E+00	-0.209700E+00
14.000	-0.146000E-01	0.381240E+01	0.167800E+00	0.190960E+01	-0.123700E+00	0.103300E+00	-0.213900E+00
14.200	-0.131000E-01	0.378670E+01	0.178300E+00	0.193490E+01	-0.111300E+00	0.989000E-01	-0.218200E+00
14.400	-0.115000E-01	0.376190E+01	0.186900E+00	0.195900E+01	-0.100000E+00	0.946000E-01	-0.222300E+00
14.600	-0.990000E-02	0.373810E+01	0.193900E+00	0.198190E+01	-0.897000E-01	0.904000E-01	-0.226300E+00
15.000	-0.680000E-02	0.369350E+01	0.203800E+00	0.202430E+01	-0.717000E-01	0.825000E-01	-0.233300E+00
15.200	-0.530000E-02	0.367270E+01	0.207000E+00	0.204390E+01	-0.639000E-01	0.789000E-01	-0.236300E+00
15.800	-0.100000E-02	0.361590E+01	0.211300E+00	0.209660E+01	-0.445000E-01	0.708000E-01	-0.242700E+00
16.400	0.280000E-02	0.356670E+01	0.210000E+00	0.214130E+01	-0.300000E-01	0.808000E-01	-0.241300E+00
16.600	0.390000E-02	0.355180E+01	0.208800E+00	0.215470E+01	-0.260000E-01	0.118200E+00	-0.225700E+00
16.800	0.490000E-02	0.353770E+01	0.207200E+00	0.216730E+01	-0.225000E-01	0.240300E+00	-0.850000E-01
17.000	0.590000E-02	0.352420E+01	0.205400E+00	0.217930E+01	-0.193000E-01	0.254600E+00	-0.115000E-01
17.200	0.690000E-02	0.351140E+01	0.203400E+00	0.219070E+01	-0.164000E-01	0.254700E+00	-0.330000E-02
17.400	0.770000E-02	0.349910E+01	0.201200E+00	0.220140E+01	-0.138000E-01	0.254400E+00	-0.760000E-02
17.600	0.850000E-02	0.348740E+01	0.198900E+00	0.221160E+01	-0.115000E-01	0.254100E+00	-0.840000E-02
17.800	0.930000E-02	0.347630E+01	0.196500E+00	0.222140E+01	-0.940000E-02	0.253800E+00	-0.780000E-02
18.000	0.100000E-01	0.346560E+01	0.193900E+00	0.223060E+01	-0.750000E-02	0.253500E+00	-0.640000E-02
18.200	0.106000E-01	0.345550E+01	0.191300E+00	0.223940E+01	-0.580000E-02	0.253200E+00	-0.480000E-02
18.400	0.112000E-01	0.344580E+01	0.188700E+00	0.224770E+01	-0.430000E-02	0.252800E+00	-0.290000E-02
18.600	0.118000E-01	0.343640E+01	0.186000E+00	0.225570E+01	-0.300000E-02	0.252500E+00	-0.100000E-02
18.800	0.123000E-01	0.342750E+01	0.183200E+00	0.226330E+01	-0.180000E-02	0.252100E+00	0.900000E-03
19.000	0.127000E-01	0.341900E+01	0.180500E+00	0.227050E+01	-0.700000E-03	0.251600E+00	0.290000E-02
19.200	0.132000E-01	0.341080E+01	0.177700E+00	0.227750E+01	0.200000E-03	0.251200E+00	0.470000E-02
19.600	0.139000E-01	0.339540E+01	0.172200E+00	0.229040E+01	0.180000E-02	0.250300E+00	0.810000E-02
19.800	0.142000E-01	0.338820E+01	0.169400E+00	0.229650E+01	0.250000E-02	0.249800E+00	0.960000E-02
20.000	0.145000E-01	0.338120E+01	0.166600E+00	0.230230E+01	0.310000E-02	0.249400E+00	0.110000E-01
20.200	0.148000E-01	0.337450E+01	0.163900E+00	0.230790E+01	0.360000E-02	0.248900E+00	0.123000E-01
20.400	0.150000E-01	0.336810E+01	0.161200E+00	0.231320E+01	0.400000E-02	0.248500E+00	0.135000E-01
20.600	0.152000E-01	0.336190E+01	0.158400E+00	0.231840E+01	0.440000E-02	0.248100E+00	0.145000E-01
20.800	0.154000E-01	0.335590E+01	0.155900E+00	0.232330E+01	0.470000E-02	0.247600E+00	0.154000E-01
21.000	0.156000E-01	0.335010E+01	0.153200E+00	0.232810E+01	0.490000E-02	0.247200E+00	0.162000E-01
21.200	0.157000E-01	0.334460E+01	0.150700E+00	0.233270E+01	0.520000E-02	0.246800E+00	0.169000E-01
21.400	0.159000E-01	0.333920E+01	0.148100E+00	0.233710E+01	0.530000E-02	0.246300E+00	0.175000E-01

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3	21.600	0.160000E-01	0.333400E+01	0.145600E+00	0.234140E+01	0.550000E-02	0.245900E+00	0.179000E-01
4	21.800	0.160000E-01	0.332900E+01	0.143100E+00	0.234550E+01	0.560000E-02	0.245500E+00	0.183000E-01
5	22.000	0.161000E-01	0.332420E+01	0.140700E+00	0.234940E+01	0.570000E-02	0.245000E+00	0.185000E-01
6	22.200	0.162000E-01	0.331950E+01	0.138300E+00	0.235320E+01	0.570000E-02	0.244600E+00	0.187000E-01
7	22.400	0.162000E-01	0.331500E+01	0.135900E+00	0.235690E+01	0.570000E-02	0.244200E+00	0.187000E-01
8	22.600	0.162000E-01	0.331070E+01	0.133600E+00	0.236050E+01	0.570000E-02	0.243800E+00	0.186000E-01
9	22.800	0.162000E-01	0.330650E+01	0.131300E+00	0.236390E+01	0.570000E-02	0.243300E+00	0.185000E-01
10	23.000	0.162000E-01	0.330240E+01	0.129100E+00	0.236720E+01	0.570000E-02	0.242900E+00	0.182000E-01
11	23.200	0.162000E-01	0.329850E+01	0.126900E+00	0.237050E+01	0.560000E-02	0.242500E+00	0.179000E-01
12	23.400	0.162000E-01	0.329470E+01	0.124700E+00	0.237360E+01	0.560000E-02	0.242100E+00	0.176000E-01
13	23.600	0.162000E-01	0.329100E+01	0.122600E+00	0.237660E+01	0.550000E-02	0.241700E+00	0.171000E-01
14	23.800	0.161000E-01	0.328750E+01	0.120500E+00	0.237950E+01	0.540000E-02	0.241300E+00	0.167000E-01
15	24.000	0.161000E-01	0.328400E+01	0.118400E+00	0.238230E+01	0.530000E-02	0.240900E+00	0.161000E-01
16	24.200	0.160000E-01	0.328070E+01	0.116400E+00	0.238510E+01	0.520000E-02	0.240500E+00	0.156000E-01
17	24.400	0.159000E-01	0.327750E+01	0.114400E+00	0.238770E+01	0.510000E-02	0.240100E+00	0.149000E-01
18	24.600	0.158000E-01	0.327440E+01	0.112400E+00	0.239030E+01	0.500000E-02	0.239800E+00	0.143000E-01
19	24.800	0.158000E-01	0.327140E+01	0.110500E+00	0.239280E+01	0.490000E-02	0.239400E+00	0.136000E-01
20	25.000	0.157000E-01	0.326850E+01	0.108600E+00	0.239520E+01	0.480000E-02	0.239100E+00	0.129000E-01
21	25.200	0.156000E-01	0.326570E+01	0.106700E+00	0.239750E+01	0.470000E-02	0.238700E+00	0.122000E-01
22	25.400	0.155000E-01	0.326300E+01	0.104900E+00	0.239980E+01	0.460000E-02	0.238400E+00	0.115000E-01
23	25.600	0.154000E-01	0.326030E+01	0.103100E+00	0.240200E+01	0.450000E-02	0.238100E+00	0.108000E-01
24	25.800	0.153000E-01	0.325780E+01	0.101300E+00	0.240420E+01	0.440000E-02	0.237900E+00	0.101000E-01
25	26.000	0.151000E-01	0.325530E+01	0.995000E-01	0.240620E+01	0.430000E-02	0.237600E+00	0.930000E-02
26	26.200	0.150000E-01	0.325290E+01	0.978000E-01	0.240830E+01	0.420000E-02	0.237400E+00	0.860000E-02
27	26.400	0.149000E-01	0.325060E+01	0.961000E-01	0.241020E+01	0.410000E-02	0.237100E+00	0.790000E-02
28	26.600	0.148000E-01	0.324840E+01	0.944000E-01	0.241210E+01	0.400000E-02	0.236900E+00	0.710000E-02
29	26.800	0.147000E-01	0.324620E+01	0.927000E-01	0.241400E+01	0.390000E-02	0.236700E+00	0.640000E-02
30	28.000	0.139000E-01	0.323430E+01	0.834000E-01	0.242400E+01	0.350000E-02	0.236000E+00	0.230000E-02
31	29.800	0.129000E-01	0.321970E+01	0.712000E-01	0.243620E+01	0.300000E-02	0.235800E+00	0.270000E-02
32	30.000	0.128000E-01	0.321830E+01	0.700000E-01	0.243750E+01	0.300000E-02	0.235800E+00	0.320000E-02
33	30.200	0.126000E-01	0.321690E+01	0.688000E-01	0.243860E+01	0.300000E-02	0.235800E+00	0.360000E-02
34	30.400	0.125000E-01	0.321550E+01	0.676000E-01	0.243970E+01	0.290000E-02	0.235900E+00	0.410000E-02
35	30.600	0.124000E-01	0.321420E+01	0.665000E-01	0.244090E+01	0.290000E-02	0.235900E+00	0.450000E-02
36	30.800	0.123000E-01	0.321270E+01	0.653000E-01	0.244180E+01	0.290000E-02	0.235900E+00	0.490000E-02
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Table 6: $(2)^3\Sigma^+ - (2-7)^3\Sigma^+$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
4.800	0.165550E+01	-0.155400E+01	-0.590000E+00	-0.387400E+00	0.145150E+01	0.126180E+01
5.000	0.158870E+01	-0.199190E+01	-0.373800E+00	-0.192900E+00	0.148930E+01	0.132120E+01
5.200	0.137860E+01	-0.245660E+01	-0.183200E+00	-0.998000E-01	0.148600E+01	0.136040E+01
5.400	0.098400E+00	-0.291220E+01	0.101000E-01	-0.474200E+00	0.145480E+01	0.135610E+01
5.600	0.365200E+00	-0.329360E+01	0.236200E+00	-0.916500E+00	0.139850E+01	0.128950E+01
5.800	-0.483900E+00	-0.349490E+01	0.515100E+00	-0.140390E+01	0.131870E+01	0.114520E+01
6.000	-0.148090E+01	-0.339460E+01	0.843100E+00	-0.189170E+01	0.122080E+01	0.922000E+00
6.200	-0.244030E+01	-0.294780E+01	0.118750E+01	-0.231800E+01	0.111770E+01	0.645400E+00
6.400	-0.317990E+01	-0.225290E+01	0.150580E+01	-0.263710E+01	0.102670E+01	0.359600E+00
6.600	-0.363990E+01	-0.147630E+01	0.177410E+01	-0.284360E+01	0.959600E+00	0.102000E+00
6.800	-0.386670E+01	-0.738300E+00	0.199110E+01	-0.296040E+01	0.918800E+00	0.111800E+00
7.000	-0.393550E+01	-0.880000E-01	0.216620E+01	-0.301540E+01	0.899700E+00	0.281700E+00
7.200	-0.390760E+01	0.468500E+00	0.230940E+01	-0.303080E+01	0.895800E+00	0.412900E+00
7.400	-0.382370E+01	0.941200E+00	0.242850E+01	-0.302180E+01	0.901000E+00	0.510700E+00
7.600	-0.370900E+01	0.134370E+01	0.252890E+01	-0.299830E+01	0.910400E+00	0.576500E+00
7.800	-0.357870E+01	0.168840E+01	0.261410E+01	-0.296690E+01	0.920700E+00	0.605600E+00
8.200	-0.330500E+01	0.224330E+01	0.274890E+01	-0.289530E+01	0.935500E+00	0.417800E+00
8.400	-0.317060E+01	0.246820E+01	0.280220E+01	-0.285930E+01	0.938700E+00	0.132800E+00
8.600	-0.304090E+01	0.266540E+01	0.284810E+01	-0.282400E+01	0.942300E+00	0.110360E+01
8.800	-0.291700E+01	0.283870E+01	0.288830E+01	-0.278880E+01	0.116740E+01	0.138060E+01
9.000	-0.279930E+01	0.299150E+01	0.292430E+01	-0.275190E+01	0.172810E+01	0.888400E+00
9.200	-0.268770E+01	0.312630E+01	0.295750E+01	-0.270840E+01	0.181160E+01	0.881000E+00
9.400	-0.258200E+01	0.324510E+01	0.298960E+01	-0.264610E+01	0.189020E+01	0.864300E+00
9.600	-0.248200E+01	0.334970E+01	0.302210E+01	-0.251800E+01	0.203130E+01	0.843700E+00
9.800	-0.238730E+01	0.344150E+01	0.305680E+01	-0.24190350E+01	0.258470E+01	0.821000E+00
10.000	-0.229740E+01	0.352170E+01	0.309550E+01	-0.2316800E+00	0.309360E+01	0.797400E+00
10.200	-0.221200E+01	0.359140E+01	0.314080E+01	-0.22116650E+01	0.290470E+01	0.773900E+00
10.400	-0.213080E+01	0.365160E+01	0.319640E+01	-0.2120200E+01	0.282470E+01	0.751300E+00
10.600	-0.205350E+01	0.370320E+01	0.326820E+01	-0.2110500E+01	0.277510E+01	0.730300E+00
10.800	-0.197980E+01	0.374700E+01	0.336560E+01	-0.20857700E+00	0.273670E+01	0.712500E+00
11.000	-0.190940E+01	0.378400E+01	0.348010E+01	-0.2068600E+00	0.270340E+01	0.697900E+00
11.200	-0.184190E+01	0.381480E+01	0.333720E+01	0.106860E+01	0.267290E+01	0.687300E+00
11.400	-0.177710E+01	0.384020E+01	0.271130E+01	0.223730E+01	0.264390E+01	0.681000E+00
11.600	-0.171470E+01	0.386080E+01	0.229260E+01	0.267690E+01	0.261620E+01	0.679500E+00
11.800	-0.165440E+01	0.387710E+01	0.205840E+01	0.287020E+01	0.258950E+01	0.682900E+00
12.000	-0.159600E+01	0.388970E+01	0.190480E+01	0.298170E+01	0.256380E+01	0.691400E+00
12.200	-0.153920E+01	0.389910E+01	0.178930E+01	0.305810E+01	0.253920E+01	0.704900E+00
12.400	-0.148380E+01	0.390550E+01	0.169390E+01	0.311630E+01	0.251560E+01	0.723300E+00
12.600	-0.142980E+01	0.390930E+01	0.161050E+01	0.316340E+01	0.249300E+01	0.746400E+00
12.800	-0.137710E+01	0.391080E+01	0.153460E+01	0.320300E+01	0.247150E+01	0.773700E+00
13.000	-0.132540E+01	0.391020E+01	0.146390E+01	0.323730E+01	0.245090E+01	0.804400E+00
13.200	-0.127490E+01	0.390770E+01	0.139720E+01	0.326720E+01	0.243140E+01	0.837800E+00
13.400	-0.122540E+01	0.390350E+01	0.133360E+01	0.329360E+01	0.241280E+01	0.872800E+00
13.600	-0.117690E+01	0.389780E+01	0.127290E+01	0.331710E+01	0.239510E+01	0.908200E+00
13.800	-0.112950E+01	0.389060E+01	0.121460E+01	0.333780E+01	0.237840E+01	0.943000E+00
14.000	-0.108310E+01	0.388230E+01	0.115870E+01	0.335620E+01	0.236260E+01	0.975600E+00
14.200	-0.103770E+01	0.387270E+01	0.110510E+01	0.337250E+01	0.234770E+01	0.100480E+01
14.400	-0.993400E+00	0.386220E+01	0.105380E+01	0.338680E+01	0.233380E+01	0.102940E+01
14.600	-0.950100E+00	0.385080E+01	0.100470E+01	0.339930E+01	0.232100E+01	0.104840E+01
15.000	-0.867000E+00	0.382570E+01	0.913000E+00	0.341950E+01	0.229860E+01	0.106690E+01
15.200	-0.827100E+00	0.381220E+01	0.870300E+00	0.342730E+01	0.228940E+01	0.106530E+01
15.800	-0.714700E+00	0.376940E+01	0.754400E+00	0.344350E+01	0.227390E+01	0.100860E+01
16.400	-0.613200E+00	0.372480E+01	0.655000E+00	0.345050E+01	0.231780E+01	0.754500E+00
16.600	-0.581900E+00	0.370990E+01	0.625300E+00	0.345120E+01	0.239800E+01	0.321500E+00
16.800	-0.551800E+00	0.369510E+01	0.597100E+00	0.345120E+01	0.193010E+01	0.142870E+01
17.000	-0.522900E+00	0.368040E+01	0.570300E+00	0.345050E+01	0.137740E+01	0.194370E+01
17.200	-0.495200E+00	0.366590E+01	0.544900E+00	0.344930E+01	0.120660E+01	0.203200E+01
17.400	-0.468800E+00	0.365160E+01	0.520800E+00	0.344770E+01	0.111770E+01	0.206070E+01
17.600	-0.443500E+00	0.363760E+01	0.497900E+00	0.344560E+01	0.105680E+01	0.207130E+01
17.800	-0.419300E+00	0.362390E+01	0.476200E+00	0.344320E+01	0.100870E+01	0.207430E+01
18.000	-0.396300E+00	0.361050E+01	0.455600E+00	0.344040E+01	0.967500E+00	0.207330E+01
18.200	-0.374300E+00	0.359740E+01	0.436100E+00	0.343740E+01	0.930700E+00	0.207000E+01
18.400	-0.353400E+00	0.358470E+01	0.417500E+00	0.343410E+01	0.896800E+00	0.206530E+01
18.600	-0.333500E+00	0.357240E+01	0.399800E+00	0.343070E+01	0.865200E+00	0.205970E+01
18.800	-0.314600E+00	0.356050E+01	0.383000E+00	0.342720E+01	0.835400E+00	0.205350E+01
19.000	-0.296700E+00	0.354890E+01	0.367000E+00	0.342350E+01	0.807200E+00	0.204710E+01
19.200	-0.279600E+00	0.353770E+01	0.351800E+00	0.341980E+01	0.780200E+00	0.204030E+01
19.600	-0.248100E+00	0.351660E+01	0.323500E+00	0.341220E+01	0.729800E+00	0.202670E+01
19.800	-0.233600E+00	0.350660E+01	0.310400E+00	0.340840E+01	0.706100E+00	0.201990E+01
20.000	-0.219700E+00	0.349690E+01	0.297900E+00	0.340470E+01	0.683200E+00	0.201310E+01
20.200	-0.206600E+00	0.348770E+01	0.285900E+00	0.340090E+01	0.661300E+00	0.200660E+01
20.400	-0.194100E+00	0.347880E+01	0.274600E+00	0.339720E+01	0.640000E+00	0.200010E+01
20.600	-0.182300E+00	0.347030E+01	0.263700E+00	0.339350E+01	0.619200E+00	0.199350E+01
20.800	-0.171000E+00	0.346210E+01	0.253400E+00	0.338990E+01	0.599600E+00	0.198760E+01
21.000	-0.160300E+00	0.345430E+01	0.243500E+00	0.338640E+01	0.580500E+00	0.198190E+01
21.200	-0.150100E+00	0.344680E+01	0.234100E+00	0.338290E+01	0.562100E+00	0.197670E+01
21.400	-0.140400E+00	0.343960E+01	0.225100E+00	0.337950E+01	0.544400E+00	0.197170E+01

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3	21.600	-0.131100E+00	0.343270E+01	0.216600E+00	0.337620E+01	0.527200E+00	0.196700E+01
4	21.800	-0.122300E+00	0.342610E+01	0.208400E+00	0.337290E+01	0.510500E+00	0.196250E+01
5	22.000	-0.113800E+00	0.341980E+01	0.200600E+00	0.336970E+01	0.494300E+00	0.195840E+01
6	22.200	-0.105800E+00	0.341380E+01	0.193100E+00	0.336650E+01	0.478600E+00	0.195470E+01
7	22.400	-0.981000E-01	0.340800E+01	0.186000E+00	0.336340E+01	0.463400E+00	0.195130E+01
8	22.600	-0.907000E-01	0.340250E+01	0.179100E+00	0.336030E+01	0.448300E+00	0.194790E+01
9	22.800	-0.837000E-01	0.339720E+01	0.172600E+00	0.335720E+01	0.433700E+00	0.194490E+01
10	23.000	-0.770000E-01	0.339210E+01	0.166400E+00	0.335420E+01	0.419400E+00	0.194220E+01
11	23.200	-0.706000E-01	0.338720E+01	0.160400E+00	0.335120E+01	0.405400E+00	0.193970E+01
12	23.400	-0.646000E-01	0.338250E+01	0.154800E+00	0.334820E+01	0.391800E+00	0.193740E+01
13	23.600	-0.588000E-01	0.337800E+01	0.149300E+00	0.334530E+01	0.378500E+00	0.193550E+01
14	23.800	-0.533000E-01	0.337370E+01	0.144100E+00	0.334240E+01	0.365300E+00	0.193370E+01
15	24.000	-0.481000E-01	0.336960E+01	0.139100E+00	0.333950E+01	0.352400E+00	0.193210E+01
16	24.200	-0.432000E-01	0.336560E+01	0.134400E+00	0.333660E+01	0.339800E+00	0.193060E+01
17	24.400	-0.385000E-01	0.336180E+01	0.129800E+00	0.333380E+01	0.327300E+00	0.192930E+01
18	24.600	-0.341000E-01	0.335810E+01	0.125500E+00	0.333090E+01	0.315100E+00	0.192820E+01
19	24.800	-0.300000E-01	0.335460E+01	0.121300E+00	0.332810E+01	0.303200E+00	0.192720E+01
20	25.000	-0.261000E-01	0.335120E+01	0.117300E+00	0.332540E+01	0.291400E+00	0.192640E+01
21	25.200	-0.225000E-01	0.334790E+01	0.113400E+00	0.332270E+01	0.279900E+00	0.192570E+01
22	25.400	-0.191000E-01	0.334480E+01	0.109800E+00	0.332000E+01	0.268600E+00	0.192520E+01
23	25.600	-0.159000E-01	0.334180E+01	0.106200E+00	0.331740E+01	0.257500E+00	0.192470E+01
24	25.800	-0.129000E-01	0.333890E+01	0.102900E+00	0.331480E+01	0.246700E+00	0.192440E+01
25	26.000	-0.102000E-01	0.333610E+01	0.996000E-01	0.331230E+01	0.236100E+00	0.192420E+01
26	26.200	-0.760000E-02	0.333350E+01	0.965000E-01	0.330980E+01	0.225800E+00	0.192410E+01
27	26.400	-0.520000E-02	0.333090E+01	0.935000E-01	0.330740E+01	0.215700E+00	0.192410E+01
28	26.600	-0.300000E-02	0.332850E+01	0.907000E-01	0.330510E+01	0.205800E+00	0.192410E+01
29	26.800	-0.100000E-02	0.332610E+01	0.879000E-01	0.330290E+01	0.196400E+00	0.192450E+01
30	28.000	0.820000E-02	0.331370E+01	0.735000E-01	0.329090E+01	0.143800E+00	0.192650E+01
31	29.800	0.149000E-01	0.330000E+01	0.572000E-01	0.327820E+01	0.825000E-01	0.193250E+01
32	30.000	0.153000E-01	0.329870E+01	0.557000E-01	0.327720E+01	0.769000E-01	0.193330E+01
33	30.200	0.157000E-01	0.329750E+01	0.542000E-01	0.327620E+01	0.716000E-01	0.193400E+01
34	30.400	0.160000E-01	0.329640E+01	0.528000E-01	0.327520E+01	0.665000E-01	0.193480E+01
35	30.600	0.162000E-01	0.329530E+01	0.514000E-01	0.327440E+01	0.615000E-01	0.193550E+01
36	30.800	0.164000E-01	0.329420E+01	0.501000E-01	0.327360E+01	0.569000E-01	0.193620E+01
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Table 7: $(3)^3\Sigma^+ - (3-7)^3\Sigma^+$ transitions

R	3-3	3-4	3-5	3-6	3-7
4.800	-0.304020E+01	-0.503970E+01	0.277600E+01	-0.598100E+00	-0.119660E+01
5.000	-0.293520E+01	-0.456950E+01	0.323990E+01	-0.383500E+00	-0.136110E+01
5.200	-0.264810E+01	-0.417680E+01	0.346280E+01	-0.184500E+00	-0.153530E+01
5.400	-0.214910E+01	-0.388300E+01	0.350250E+01	0.290000E-02	-0.172500E+01
5.600	-0.141150E+01	-0.367070E+01	0.339820E+01	0.178100E+00	-0.193260E+01
5.800	-0.439500E+00	-0.350900E+01	0.316300E+01	0.338700E+00	-0.215120E+01
6.000	0.677400E+00	-0.336470E+01	0.280360E+01	0.477600E+00	-0.236040E+01
6.200	0.174910E+01	-0.321690E+01	0.234810E+01	0.584600E+00	-0.253240E+01
6.400	0.259090E+01	-0.306530E+01	0.185110E+01	0.655400E+00	-0.264980E+01
6.600	0.314160E+01	-0.292120E+01	0.136630E+01	0.696800E+00	-0.271460E+01
6.800	0.344700E+01	-0.279260E+01	0.923800E+00	0.722700E+00	-0.273920E+01
7.000	0.358210E+01	-0.268030E+01	0.531400E+00	0.746600E+00	-0.273610E+01
7.200	0.360850E+01	-0.258130E+01	0.187100E+00	0.778100E+00	-0.271410E+01
7.400	0.356710E+01	-0.249180E+01	0.114600E+00	0.822600E+00	-0.267890E+01
7.600	0.348380E+01	-0.240860E+01	0.379000E+00	0.882400E+00	-0.263420E+01
7.800	0.337450E+01	-0.232940E+01	0.610400E+00	0.957600E+00	-0.258150E+01
8.200	0.311470E+01	-0.217720E+01	0.989200E+00	0.114730E+01	-0.243170E+01
8.400	0.297480E+01	-0.210260E+01	0.114260E+01	0.125740E+01	-0.218840E+01
8.600	0.283230E+01	-0.202850E+01	0.127520E+01	0.137620E+01	-0.148450E+01
8.800	0.268920E+01	-0.195440E+01	0.138950E+01	0.162980E+01	-0.760400E+00
9.000	0.254660E+01	-0.188030E+01	0.148710E+01	0.850600E+00	-0.158870E+01
9.200	0.240530E+01	-0.180580E+01	0.156870E+01	0.769000E+00	-0.170870E+01
9.400	0.226600E+01	-0.173080E+01	0.163160E+01	0.758600E+00	-0.182000E+01
9.600	0.212910E+01	-0.165490E+01	0.165820E+01	0.832400E+00	-0.192380E+01
9.800	0.199500E+01	-0.157780E+01	0.145040E+01	0.124440E+01	-0.201920E+01
10.000	0.186420E+01	-0.149890E+01	0.600000E-03	0.196520E+01	-0.210540E+01
10.200	0.173700E+01	-0.141720E+01	-0.332200E+00	0.199040E+01	-0.218200E+01
10.400	0.161380E+01	-0.133070E+01	-0.438400E+00	0.202300E+01	-0.224900E+01
10.600	0.149490E+01	-0.123500E+01	-0.514000E+00	0.206020E+01	-0.230640E+01
10.800	0.138070E+01	-0.111710E+01	-0.605600E+00	0.209750E+01	-0.235470E+01
11.000	0.127140E+01	-0.928600E+00	-0.763500E+00	0.213330E+01	-0.239540E+01
11.200	0.116710E+01	-0.523300E+00	-0.100520E+01	0.216650E+01	-0.242850E+01
11.400	0.106800E+01	-0.908000E-01	-0.106060E+01	0.219660E+01	-0.245550E+01
11.600	0.974200E+00	0.101500E+00	-0.991400E+00	0.222320E+01	-0.247700E+01
11.800	0.885700E+00	0.188100E+00	-0.910700E+00	0.224570E+01	-0.249420E+01
12.000	0.802400E+00	0.234600E+00	-0.832400E+00	0.226390E+01	-0.250770E+01
12.200	0.724200E+00	0.262400E+00	-0.757600E+00	0.227760E+01	-0.251810E+01
12.400	0.651000E+00	0.280000E+00	-0.686100E+00	0.228640E+01	-0.252600E+01
12.600	0.582600E+00	0.291300E+00	-0.617500E+00	0.229050E+01	-0.253180E+01
12.800	0.518900E+00	0.298300E+00	-0.551900E+00	0.228960E+01	-0.253520E+01
13.000	0.459600E+00	0.302400E+00	-0.489200E+00	0.228380E+01	-0.253610E+01
13.200	0.404600E+00	0.304100E+00	-0.429300E+00	0.227310E+01	-0.253430E+01
13.400	0.353700E+00	0.304200E+00	-0.372300E+00	0.225760E+01	-0.252960E+01
13.600	0.306600E+00	0.302900E+00	-0.318100E+00	0.223760E+01	-0.252150E+01
13.800	0.263100E+00	0.300500E+00	-0.266800E+00	0.221330E+01	-0.250970E+01
14.000	0.223000E+00	0.297300E+00	-0.218300E+00	0.218500E+01	-0.249390E+01
14.200	0.186200E+00	0.293500E+00	-0.172600E+00	0.215290E+01	-0.247350E+01
14.400	0.152400E+00	0.289100E+00	-0.129700E+00	0.211750E+01	-0.244880E+01
14.600	0.121300E+00	0.284400E+00	-0.895000E-01	0.207910E+01	-0.241990E+01
15.000	0.670000E-01	0.274200E+00	-0.172000E-01	0.199530E+01	-0.234990E+01
15.200	0.433000E-01	0.268900E+00	0.150000E-01	0.195130E+01	-0.230930E+01
15.800	-0.155000E-01	0.252700E+00	0.969000E-01	0.182440E+01	-0.216340E+01
16.400	-0.592000E-01	0.236600E+00	0.158100E+00	0.181660E+01	-0.189410E+01
16.600	-0.709000E-01	0.231400E+00	0.174500E+00	0.204830E+01	-0.152960E+01
16.800	-0.815000E-01	0.226300E+00	0.188900E+00	0.247460E+01	-0.276200E+00
17.000	-0.909000E-01	0.221100E+00	0.201500E+00	0.222270E+01	0.962500E+00
17.200	-0.993000E-01	0.216100E+00	0.212500E+00	0.210250E+01	0.106460E+01
17.400	-0.106800E+00	0.211200E+00	0.221800E+00	0.202720E+01	0.107070E+01
17.600	-0.113400E+00	0.206400E+00	0.229700E+00	0.196910E+01	0.104710E+01
17.800	-0.119200E+00	0.201600E+00	0.236200E+00	0.191930E+01	0.101100E+01
18.000	-0.124300E+00	0.196900E+00	0.241400E+00	0.187480E+01	0.969600E+00
18.200	-0.128800E+00	0.192300E+00	0.245500E+00	0.183380E+01	0.925800E+00
18.400	-0.132700E+00	0.187700E+00	0.248500E+00	0.179530E+01	0.881100E+00
18.600	-0.136000E+00	0.183300E+00	0.250400E+00	0.175870E+01	0.836700E+00
18.800	-0.138800E+00	0.178900E+00	0.251500E+00	0.172380E+01	0.793200E+00
19.000	-0.141300E+00	0.174600E+00	0.251700E+00	0.169020E+01	0.750900E+00
19.200	-0.143300E+00	0.170400E+00	0.251200E+00	0.165810E+01	0.710400E+00
19.600	-0.146300E+00	0.162300E+00	0.248300E+00	0.159720E+01	0.634500E+00
19.800	-0.147300E+00	0.158300E+00	0.246100E+00	0.156830E+01	0.599300E+00
20.000	-0.148100E+00	0.154400E+00	0.243300E+00	0.154050E+01	0.566100E+00
20.200	-0.148700E+00	0.150600E+00	0.240200E+00	0.151350E+01	0.534800E+00
20.400	-0.149100E+00	0.146900E+00	0.236800E+00	0.148760E+01	0.505500E+00
20.600	-0.149300E+00	0.143300E+00	0.233100E+00	0.146310E+01	0.478700E+00
20.800	-0.149400E+00	0.139800E+00	0.229200E+00	0.143870E+01	0.452700E+00
21.000	-0.149300E+00	0.136400E+00	0.225000E+00	0.141510E+01	0.428300E+00
21.200	-0.149200E+00	0.133000E+00	0.220700E+00	0.139230E+01	0.405600E+00
21.400	-0.148900E+00	0.129700E+00	0.216400E+00	0.137030E+01	0.384500E+00

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3	21.600	-0.148500E+00	0.126500E+00	0.211900E+00	0.134910E+01	0.364700E+00
4	21.800	-0.148100E+00	0.123400E+00	0.207400E+00	0.132850E+01	0.346300E+00
5	22.000	-0.147600E+00	0.120400E+00	0.202900E+00	0.130870E+01	0.329200E+00
6	22.200	-0.147100E+00	0.117500E+00	0.198400E+00	0.128960E+01	0.313300E+00
7	22.400	-0.146500E+00	0.114600E+00	0.193900E+00	0.127110E+01	0.298400E+00
8	22.600	-0.145900E+00	0.111800E+00	0.189500E+00	0.125350E+01	0.284800E+00
9	22.800	-0.145200E+00	0.109100E+00	0.185100E+00	0.123640E+01	0.272000E+00
10	23.000	-0.144600E+00	0.106500E+00	0.180800E+00	0.122000E+01	0.260200E+00
11	23.200	-0.143900E+00	0.103900E+00	0.176600E+00	0.120420E+01	0.249200E+00
12	23.400	-0.143100E+00	0.101500E+00	0.172400E+00	0.118900E+01	0.239000E+00
13	23.600	-0.142400E+00	0.991000E-01	0.168400E+00	0.117440E+01	0.229500E+00
14	23.800	-0.141600E+00	0.967000E-01	0.164500E+00	0.116040E+01	0.220700E+00
15	24.000	-0.140800E+00	0.944000E-01	0.160600E+00	0.114690E+01	0.212400E+00
16	24.200	-0.139900E+00	0.922000E-01	0.156900E+00	0.113400E+01	0.204700E+00
17	24.400	-0.139100E+00	0.901000E-01	0.153200E+00	0.112160E+01	0.197600E+00
18	24.600	-0.138200E+00	0.880000E-01	0.149700E+00	0.110980E+01	0.190900E+00
19	24.800	-0.137300E+00	0.860000E-01	0.146300E+00	0.109840E+01	0.184700E+00
20	25.000	-0.136300E+00	0.840000E-01	0.142900E+00	0.108750E+01	0.178800E+00
21	25.200	-0.135400E+00	0.821000E-01	0.139700E+00	0.107700E+01	0.173300E+00
22	25.400	-0.134400E+00	0.803000E-01	0.136500E+00	0.106700E+01	0.168100E+00
23	25.600	-0.133400E+00	0.785000E-01	0.133500E+00	0.105740E+01	0.163200E+00
24	25.800	-0.132400E+00	0.767000E-01	0.130500E+00	0.104830E+01	0.158600E+00
25	26.000	-0.131400E+00	0.750000E-01	0.127600E+00	0.103950E+01	0.154300E+00
26	26.200	-0.130300E+00	0.734000E-01	0.124800E+00	0.103110E+01	0.150100E+00
27	26.400	-0.129300E+00	0.718000E-01	0.122100E+00	0.102310E+01	0.146200E+00
28	26.600	-0.128200E+00	0.702000E-01	0.119500E+00	0.101540E+01	0.142400E+00
29	26.800	-0.127100E+00	0.687000E-01	0.116900E+00	0.100800E+01	0.138800E+00
30	28.000	-0.120300E+00	0.606000E-01	0.103100E+00	0.970400E+00	0.120700E+00
31	29.800	-0.109800E+00	0.507000E-01	0.863000E-01	0.930200E+00	0.100000E+00
32	30.000	-0.108700E+00	0.497000E-01	0.846000E-01	0.926600E+00	0.981000E-01
33	30.200	-0.107500E+00	0.488000E-01	0.830000E-01	0.923300E+00	0.962000E-01
34	30.400	-0.106400E+00	0.478000E-01	0.815000E-01	0.920100E+00	0.943000E-01
35	30.600	-0.105200E+00	0.470000E-01	0.800000E-01	0.917100E+00	0.925000E-01
36	30.800	-0.104100E+00	0.461000E-01	0.785000E-01	0.914100E+00	0.908000E-01
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Table 8: $(4)^3\Sigma^+ - (4-7)^3\Sigma^+$ transitions

R	4-4	4-5	4-6	4-7
4.800	0.464700E+00	-0.335780E+01	-0.524840E+01	-0.374970E+01
5.000	0.421800E+00	-0.316450E+01	-0.479750E+01	-0.362890E+01
5.200	0.514800E+00	-0.309870E+01	-0.455110E+01	-0.339450E+01
5.400	0.662500E+00	-0.310540E+01	-0.448090E+01	-0.312340E+01
5.600	0.826200E+00	-0.313830E+01	-0.453140E+01	-0.283740E+01
5.800	0.989800E+00	-0.317240E+01	-0.465360E+01	-0.254220E+01
6.000	0.114680E+01	-0.319690E+01	-0.481130E+01	-0.223950E+01
6.200	0.129330E+01	-0.320970E+01	-0.497830E+01	-0.193390E+01
6.400	0.142680E+01	-0.321250E+01	-0.513710E+01	-0.163240E+01
6.600	0.154550E+01	-0.320870E+01	-0.527680E+01	-0.134330E+01
6.800	0.164810E+01	-0.320270E+01	-0.539190E+01	-0.107580E+01
7.000	0.173410E+01	-0.319830E+01	-0.548080E+01	-0.837500E+00
7.200	0.180390E+01	-0.319890E+01	-0.554450E+01	-0.633800E+00
7.400	0.185810E+01	-0.320690E+01	-0.558560E+01	-0.467400E+00
7.600	0.189790E+01	-0.322360E+01	-0.560680E+01	-0.338300E+00
7.800	0.192510E+01	-0.324950E+01	-0.561120E+01	-0.244000E+00
8.200	0.194880E+01	-0.332620E+01	-0.558020E+01	-0.128700E+00
8.400	0.194960E+01	-0.337400E+01	-0.554960E+01	-0.517000E-01
8.600	0.194600E+01	-0.342560E+01	-0.551190E+01	0.657000E-01
8.800	0.194000E+01	-0.347860E+01	-0.542050E+01	0.733000E+00
9.000	0.193360E+01	-0.353100E+01	-0.243400E+00	0.541680E+01
9.200	0.192840E+01	-0.358070E+01	-0.180400E+00	0.536880E+01
9.400	0.192540E+01	-0.362560E+01	0.920000E-01	0.531940E+01
9.600	0.192520E+01	-0.365980E+01	0.117400E+00	0.527020E+01
9.800	0.192750E+01	-0.353260E+01	0.106200E+01	0.522200E+01
10.000	0.193110E+01	-0.147750E+01	0.340080E+01	0.517380E+01
10.200	0.193290E+01	-0.901400E+00	0.360900E+01	0.512280E+01
10.400	0.192720E+01	-0.765100E+00	0.364790E+01	0.506150E+01
10.600	0.190150E+01	-0.741400E+00	0.366090E+01	0.497070E+01
10.800	0.182230E+01	-0.792700E+00	0.366700E+01	0.479350E+01
11.000	0.157210E+01	-0.927300E+00	0.364160E+01	0.430700E+01
11.200	0.886200E+00	-0.920400E+00	0.328180E+01	-0.278360E+01
11.400	0.402200E+00	-0.462000E+00	0.250810E+01	-0.936300E+00
11.600	0.339300E+00	-0.183000E+00	0.206110E+01	-0.108300E+00
11.800	0.354900E+00	-0.566000E-01	0.184050E+01	-0.249000E+00
12.000	0.379600E+00	-0.830000E-02	0.171610E+01	-0.430300E+00
12.200	0.402200E+00	0.460000E-01	0.163720E+01	-0.533700E+00
12.400	0.420800E+00	0.699000E-01	0.158190E+01	-0.597100E+00
12.600	0.435300E+00	0.863000E-01	0.153970E+01	-0.637700E+00
12.800	0.446100E+00	0.984000E-01	0.150460E+01	-0.663500E+00
13.000	0.453400E+00	0.107900E+00	0.147320E+01	-0.678600E+00
13.200	0.457800E+00	0.115600E+00	0.144340E+01	-0.685600E+00
13.400	0.459400E+00	0.122300E+00	0.141360E+01	-0.685500E+00
13.600	0.458600E+00	0.128300E+00	0.138300E+01	-0.679200E+00
13.800	0.455800E+00	0.133700E+00	0.135090E+01	-0.667000E+00
14.000	0.451100E+00	0.138700E+00	0.131690E+01	-0.649600E+00
14.200	0.444900E+00	0.143400E+00	0.128090E+01	-0.627100E+00
14.400	0.437300E+00	0.147800E+00	0.124280E+01	-0.600200E+00
14.600	0.428500E+00	0.152000E+00	0.120270E+01	-0.569600E+00
15.000	0.408400E+00	0.159500E+00	0.111710E+01	-0.499900E+00
15.200	0.397400E+00	0.162900E+00	0.107230E+01	-0.462200E+00
15.800	0.362200E+00	0.171700E+00	0.933700E+00	-0.342100E+00
16.400	0.325900E+00	0.178100E+00	0.804200E+00	-0.179800E+00
16.600	0.314000E+00	0.179700E+00	0.769600E+00	-0.240000E-01
16.800	0.302400E+00	0.181000E+00	0.527600E+00	0.486900E+00
17.000	0.290900E+00	0.182100E+00	0.321100E+00	0.585100E+00
17.200	0.279700E+00	0.182800E+00	0.249900E+00	0.566300E+00
17.400	0.268800E+00	0.183300E+00	0.208300E+00	0.534100E+00
17.600	0.258300E+00	0.183500E+00	0.176900E+00	0.498600E+00
17.800	0.248100E+00	0.183500E+00	0.151700E+00	0.463400E+00
18.000	0.238300E+00	0.183200E+00	0.130600E+00	0.429300E+00
18.200	0.228900E+00	0.182600E+00	0.112100E+00	0.396700E+00
18.400	0.219800E+00	0.181800E+00	0.959000E-01	0.365800E+00
18.600	0.211100E+00	0.180700E+00	0.816000E-01	0.336700E+00
18.800	0.202800E+00	0.179500E+00	0.689000E-01	0.309500E+00
19.000	0.194800E+00	0.178000E+00	0.575000E-01	0.284000E+00
19.200	0.187200E+00	0.176300E+00	0.477000E-01	0.260600E+00
19.600	0.173000E+00	0.172500E+00	0.305000E-01	0.218100E+00
19.800	0.166400E+00	0.170400E+00	0.234000E-01	0.199300E+00
20.000	0.160100E+00	0.168100E+00	0.174000E-01	0.182300E+00
20.200	0.154100E+00	0.165800E+00	0.115000E-01	0.166200E+00
20.400	0.148400E+00	0.163300E+00	0.700000E-02	0.151800E+00
20.600	0.142900E+00	0.160800E+00	0.220000E-02	0.138100E+00
20.800	0.137700E+00	0.158100E+00	0.150000E-02	0.125800E+00
21.000	0.132800E+00	0.155500E+00	0.520000E-02	0.114100E+00
21.200	0.128100E+00	0.152700E+00	0.800000E-02	0.103800E+00
21.400	0.123600E+00	0.150000E+00	0.105000E-01	0.944000E-01

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3	21.600	0.119400E+00	0.147200E+00	0.126000E-01	0.857000E-01
4	21.800	0.115300E+00	0.144400E+00	0.143000E-01	0.778000E-01
5	22.000	0.111500E+00	0.141500E+00	0.158000E-01	0.706000E-01
6	22.200	0.107800E+00	0.138700E+00	0.170000E-01	0.640000E-01
7	22.400	0.104300E+00	0.135900E+00	0.180000E-01	0.581000E-01
8	22.600	0.101000E+00	0.133100E+00	0.189000E-01	0.524000E-01
9	22.800	0.978000E-01	0.130400E+00	0.195000E-01	0.474000E-01
10	23.000	0.947000E-01	0.127600E+00	0.200000E-01	0.427000E-01
11	23.200	0.918000E-01	0.124900E+00	0.203000E-01	0.385000E-01
12	23.400	0.890000E-01	0.122300E+00	0.205000E-01	0.346000E-01
13	23.600	0.863000E-01	0.119600E+00	0.207000E-01	0.309000E-01
14	23.800	0.838000E-01	0.117100E+00	0.207000E-01	0.277000E-01
15	24.000	0.813000E-01	0.114500E+00	0.206000E-01	0.247000E-01
16	24.200	0.790000E-01	0.112000E+00	0.205000E-01	0.220000E-01
17	24.400	0.768000E-01	0.109600E+00	0.203000E-01	0.194000E-01
18	24.600	0.746000E-01	0.107200E+00	0.201000E-01	0.171000E-01
19	24.800	0.725000E-01	0.104900E+00	0.198000E-01	0.150000E-01
20	25.000	0.706000E-01	0.102600E+00	0.195000E-01	0.131000E-01
21	25.200	0.687000E-01	0.100400E+00	0.191000E-01	0.113000E-01
22	25.400	0.668000E-01	0.982000E-01	0.187000E-01	0.970000E-02
23	25.600	0.651000E-01	0.961000E-01	0.184000E-01	0.810000E-02
24	25.800	0.634000E-01	0.940000E-01	0.180000E-01	0.670000E-02
25	26.000	0.618000E-01	0.920000E-01	0.176000E-01	0.540000E-02
26	26.200	0.602000E-01	0.901000E-01	0.172000E-01	0.430000E-02
27	26.400	0.587000E-01	0.882000E-01	0.167000E-01	0.330000E-02
28	26.600	0.572000E-01	0.863000E-01	0.163000E-01	0.220000E-02
29	26.800	0.558000E-01	0.845000E-01	0.157000E-01	0.160000E-02
30	28.000	0.484000E-01	0.747000E-01	0.136000E-01	0.300000E-02
31	29.800	0.398000E-01	0.626000E-01	0.108000E-01	0.670000E-02
32	30.000	0.390000E-01	0.614000E-01	0.105000E-01	0.690000E-02
33	30.200	0.382000E-01	0.603000E-01	0.103000E-01	0.720000E-02
34	30.400	0.375000E-01	0.592000E-01	0.100000E-01	0.740000E-02
35	30.600	0.368000E-01	0.581000E-01	0.980000E-02	0.760000E-02
36	30.800	0.360000E-01	0.571000E-01	0.960000E-02	0.780000E-02
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The following tables display the potential energy curves of **NaCs** for the seven lowest $^1\Sigma$ states, the seven lowest $^1\Pi$ states, and the five lowest $^1\Delta$ states (Tables 1 to 3) and for the six lowest $^3\Sigma$ states, the eight lowest $^3\Pi$ states, and the five lowest $^3\Delta$ states (Tables 4 to 6). Distances and energies are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 219474.63137 cm⁻¹. The curves are computed using the large basis set for both atoms, as described in the accompanying paper. The origin of energies is defined at the ionisation limit for both atoms.

Table 1: (1-7) $^1\Sigma^+$

3.200	-0.2853503232	-0.2229515835	-0.2066876746	-0.1744627671	-0.1690700587	-0.1623182921	-0.1578038995
3.400	-0.2846283517	-0.2221072479	-0.2036896657	-0.1743867905	-0.1693907077	-0.1618926441	-0.1577578910
3.600	-0.2869439556	-0.2239335871	-0.2041991696	-0.1777414565	-0.1728067195	-0.1642990828	-0.1597623584
3.800	-0.2911014167	-0.2274361396	-0.2071629720	-0.1831905977	-0.1778428406	-0.1685156754	-0.1630862086
4.200	-0.3023210564	-0.2373060566	-0.2180023301	-0.1963066686	-0.1903517223	-0.1796260850	-0.1727698745
4.600	-0.3149458901	-0.2492560710	-0.2315155402	-0.2097049268	-0.2037785586	-0.1920109799	-0.1855955464
4.800	-0.3211519574	-0.2556008465	-0.2378858069	-0.2164381867	-0.2102279103	-0.1982723669	-0.1922971427
5.000	-0.3270315675	-0.2619358511	-0.2436483647	-0.2230673182	-0.2163773185	-0.2044027586	-0.1987307281
5.200	-0.3324433707	-0.2680544428	-0.2487840900	-0.2294050813	-0.2221891782	-0.2102723019	-0.2047680588
5.400	-0.3372904029	-0.2737940271	-0.2533474825	-0.2352932970	-0.2276142828	-0.2157702352	-0.2103457136
5.600	-0.3415182178	-0.2790530756	-0.2574026216	-0.2406302411	-0.2326021156	-0.2208175085	-0.2154217232
5.800	-0.3451087432	-0.2837822120	-0.2610021139	-0.2453660527	-0.2371177613	-0.2253688901	-0.2199703384
6.000	-0.3480722196	-0.2879687620	-0.2641856074	-0.2494911149	-0.2411476382	-0.2294077449	-0.2239845687
6.200	-0.3504391469	-0.2916240481	-0.2669835654	-0.2530250651	-0.2446970377	-0.2329389126	-0.2274757593
6.400	-0.3522532776	-0.2947746920	-0.2694211763	-0.2560077920	-0.2477847660	-0.2359824084	-0.2304703828
6.600	-0.3535659881	-0.2974566836	-0.2715212734	-0.2584921603	-0.2504376524	-0.2385681873	-0.2330049434
6.800	-0.3544320287	-0.2997111091	-0.2733061601	-0.2605382432	-0.2526860135	-0.2407320432	-0.2351217886
7.000	-0.3549064846	-0.3015809605	-0.2747985044	-0.2622088861	-0.2545603690	-0.2425124604	-0.2368658351
7.200	-0.3550427003	-0.3031087887	-0.2760215223	-0.2635663219	-0.2560895364	-0.2439483681	-0.2382822940
7.400	-0.3548909876	-0.3043351181	-0.2769987250	-0.2646694057	-0.2573001439	-0.2450776021	-0.2394150607
7.600	-0.3544978955	-0.3052974933	-0.2777534555	-0.2655711098	-0.2582174238	-0.2459359892	-0.2403056587
7.800	-0.3539058701	-0.3060300132	-0.2783084118	-0.2663162672	-0.2588668245	-0.2465568340	-0.2409923341
8.200	-0.3522741518	-0.3069241290	-0.2789043429	-0.2674680280	-0.2594731430	-0.2472054720	-0.2418858330
8.400	-0.3512991700	-0.3071364912	-0.2789845679	-0.2679170897	-0.2594909047	-0.2472863274	-0.2421459469
8.600	-0.3502551828	-0.3072209530	-0.2789433494	-0.2682980204	-0.2593604585	-0.2472360732	-0.2423082955
8.800	-0.3491658843	-0.3071953311	-0.2787966934	-0.2686175146	-0.2591123537	-0.2470753243	-0.2423868211
9.000	-0.3480520117	-0.3070748498	-0.2785953361	-0.2688799221	-0.2587750552	-0.2468228205	-0.2423918783
9.200	-0.3469316111	-0.3068723843	-0.2782449611	-0.2690883485	-0.2583744454	-0.2464957718	-0.2423313488
9.400	-0.3458202354	-0.3065986835	-0.2778664377	-0.2692451874	-0.2579336871	-0.2461102897	-0.2422115596
9.600	-0.3447311264	-0.3062626020	-0.2774361102	-0.2693522912	-0.2574732928	-0.2456819141	-0.2420378050
9.800	-0.3436753583	-0.305713366	-0.2769660990	-0.2694109098	-0.2570112375	-0.2452262829	-0.2418144346
10.000	-0.3426619491	-0.3054306603	-0.2764685972	-0.2694214591	-0.2565631058	-0.2447599177	-0.2415447564
10.200	-0.3416979751	-0.3049451810	-0.2759561408	-0.2693832563	-0.2561421817	-0.2443010151	-0.2412306556
10.400	-0.3407886800	-0.3044186094	-0.2754417763	-0.2692943298	-0.2557595633	-0.2438699026	-0.2408726973
10.600	-0.3399376115	-0.3038540380	-0.2749389868	-0.2691514422	-0.2554242345	-0.2434884443	-0.2404707312
10.800	-0.3391467735	-0.3032542046	-0.2744611920	-0.2689505992	-0.2551431394	-0.2431777912	-0.2400256324
11.000	-0.3384168028	-0.3026217240	-0.2740206493	-0.2686881423	-0.2549212259	-0.2429545373	-0.2395413391
11.200	-0.3377471566	-0.3019592592	-0.2736268873	-0.2683623805	-0.2547614640	-0.2428267787	-0.2390260152
11.400	-0.3371363097	-0.3012696303	-0.2732852110	-0.2679751321	-0.2546648365	-0.2427918381	-0.2384914796
11.600	-0.3365819606	-0.3005558650	-0.2729961011	-0.2675323703	-0.2546303229	-0.2428369783	-0.2379515761
11.800	-0.3360812078	-0.2998211908	-0.2727559136	-0.2670436080	-0.2546549322	-0.2429429751	-0.2374203634
12.000	-0.3356307425	-0.2990690031	-0.2725584498	-0.2665203692	-0.2547338139	-0.2430889463	-0.2369103227
12.200	-0.3352269914	-0.2983027954	-0.2723965867	-0.2659746192	-0.2548604908	-0.2432562877	-0.2364305910
12.400	-0.3348662653	-0.2975261072	-0.2722634279	-0.2654176723	-0.2550272031	-0.2434306913	-0.2359858520
12.600	-0.3345448564	-0.2967424484	-0.2721528492	-0.2648597005	-0.2552253452	-0.2436024398	-0.2355766821
12.800	-0.3342591495	-0.2959552604	-0.2720596611	-0.2643096626	-0.2554458580	-0.2437657344	-0.2352011385
13.000	-0.3340056620	-0.2951678634	-0.2719795250	-0.2637754720	-0.2556795926	-0.2439176947	-0.2348564271
13.200	-0.3337811097	-0.2943834441	-0.2719088049	-0.2632642636	-0.2559175454	-0.2440574118	-0.2345398653
13.400	-0.3335824322	-0.2936050155	-0.2718444080	-0.2627826740	-0.2561509213	-0.2441851710	-0.2342491610
13.600	-0.3334068064	-0.2928354342	-0.2717836530	-0.2623371215	-0.2563711412	-0.2443019068	-0.2339823722
13.800	-0.3332516506	-0.2920773815	-0.2717241584	-0.2619340067	-0.2565697685	-0.2444088393	-0.2337377706
14.000	-0.3331146293	-0.2913333720	-0.2716637688	-0.2615797126	-0.2567385417	-0.2445072461	-0.2335137414
14.200	-0.3329936337	-0.2906057603	-0.2716005012	-0.2612802850	-0.2568697194	-0.2445983425	-0.2333087480
14.400	-0.3328867758	-0.2898967427	-0.2715325167	-0.2610405404	-0.2569569323	-0.2446832223	-0.2331212874
14.600	-0.3327923707	-0.2892083620	-0.2714581000	-0.2608626431	-0.2569965599	-0.2447628307	-0.2329499050
15.000	-0.3326351263	-0.2879009015	-0.2712837518	-0.2606803133	-0.2569395584	-0.2449093055	-0.2326498843
15.200	-0.3325697896	-0.2870551091	-0.2711810738	-0.2606596930	-0.2568563664	-0.2449773893	-0.2323087692
15.800	-0.3324149026	-0.2856052474	-0.2707984705	-0.2607523665	-0.2564986511	-0.2451662045	-0.2321870108
16.400	-0.3323059115	-0.2841934484	-0.2702942381	-0.2609054274	-0.2561184806	-0.2453375535	-0.2319290345
16.600	-0.3322770838	-0.2837836113	-0.2701000124	-0.2609461690	-0.2560030455	-0.2453916103	-0.2318559936
16.800	-0.3322512756	-0.2834035959	-0.2698942563	-0.2609768615	-0.2558953983	-0.2454443180	-0.2317788458
17.000	-0.3322281285	-0.2830526393	-0.2696784530	-0.2609954181	-0.2557958912	-0.2454957405	-0.2317259064
17.200	-0.3322073296	-0.2827297185	-0.2694544335	-0.2610001015	-0.2557045587	-0.2455459479	-0.2316679326

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3	17.400 -0.3321886055 -0.2824335901 -0.2692243204 -0.2609893915 -0.2556211815 -0.2455949775 -0.2316141392
4	17.600 -0.3321717153 -0.2821628367 -0.2689904688 -0.2609619323 -0.2555453987 -0.2456428632 -0.2315641843
5	17.800 -0.3321564494 -0.2819159083 -0.2687553911 -0.2609164994 -0.2554767613 -0.2456896286 -0.2315177625
6	18.000 -0.3321426243 -0.2816911844 -0.2685216683 -0.2608519948 -0.2554147629 -0.2457352874 -0.2314746024
7	18.200 -0.3321300780 -0.2814870037 -0.2682918547 -0.2607674624 -0.2553588937 -0.2457798497 -0.2314344655
8	18.400 -0.3321186690 -0.2813017183 -0.2680683784 -0.2606621301 -0.2553086355 -0.2458233200 -0.2313971392
9	18.600 -0.3321082729 -0.2811337120 -0.2678534443 -0.2605354421 -0.2552634892 -0.2458656971 -0.2313624375
10	18.800 -0.3320987822 -0.2809814454 -0.2676489513 -0.2603871258 -0.2552229825 -0.2459069778 -0.2313301940
11	19.000 -0.3320900992 -0.2808434552 -0.2674564108 -0.2602172186 -0.2551866615 -0.2459471542 -0.2313002658
12	19.200 -0.3320821393 -0.2807183796 -0.2672769172 -0.2600260947 -0.2551541172 -0.2459862181 -0.2312725204
13	19.600 -0.3320681018 -0.2805020547 -0.2669592867 -0.2595833779 -0.2550988353 -0.2460609568 -0.2312231598
14	19.800 -0.3320619010 -0.2804086042 -0.2668212509 -0.2593341219 -0.2550754304 -0.2460966044 -0.2312013663
15	20.000 -0.3320561725 -0.2803236687 -0.2666965743 -0.2590682156 -0.2550544406 -0.2461310805 -0.2311813983
16	20.200 -0.3320508724 -0.2802463953 -0.2665845746 -0.2587873111 -0.2550356071 -0.2461643689 -0.2311631955
17	20.400 -0.3320459609 -0.2801760258 -0.2664844077 -0.2584931384 -0.2550186845 -0.2461964491 -0.2311467094
18	20.600 -0.3320414004 -0.2801118810 -0.2663951268 -0.2581874388 -0.2550034422 -0.2462273003 -0.2311319018
19	20.800 -0.3320371593 -0.2800533544 -0.2663157531 -0.2578719126 -0.2549896775 -0.2462568951 -0.2311187249
20	21.000 -0.3320332103 -0.2799999107 -0.2662453143 -0.2575481998 -0.2549771875 -0.2462852130 -0.2311071587
21	21.200 -0.3320295267 -0.2799510726 -0.2661828697 -0.2572178558 -0.2549657731 -0.2463122205 -0.2310971676
22	21.400 -0.3320260866 -0.2799064144 -0.2661275432 -0.2568823536 -0.2549552188 -0.2463378942 -0.2310887337
23	21.600 -0.3320228681 -0.2798655604 -0.2660785210 -0.2565431151 -0.2549452476 -0.2463621925 -0.2310818309
24	21.800 -0.3320198548 -0.2798281750 -0.2660350722 -0.2562016067 -0.2549354418 -0.2463850809 -0.2310764390
25	22.000 -0.3320170291 -0.2797939593 -0.2659965318 -0.2558596303 -0.2549249315 -0.2464065137 -0.2310725315
26	22.200 -0.3320143761 -0.2797626443 -0.2659623120 -0.2555205641 -0.2549111892 -0.2464264433 -0.2310700827
27	22.400 -0.3320118821 -0.2797339891 -0.2659318920 -0.2551978873 -0.2548814878 -0.2464448093 -0.2310690604
28	22.600 -0.3320095363 -0.2797077753 -0.2659048149 -0.2549879978 -0.2547401222 -0.2464615477 -0.2310694450
29	22.800 -0.3320073261 -0.2796838058 -0.2658806745 -0.2549416089 -0.2544369843 -0.2464765798 -0.2310711868
30	23.000 -0.3320052432 -0.2796619015 -0.2658591187 -0.2549271260 -0.2541042406 -0.2464898155 -0.2310742508
31	23.200 -0.3320032760 -0.2796418921 -0.2658398342 -0.2549189479 -0.2537680009 -0.2465011461 -0.2310785899
32	23.400 -0.3320014182 -0.2796236273 -0.2658225530 -0.2549130997 -0.2534327267 -0.2465104478 -0.2310841568
33	23.600 -0.3319996619 -0.2796069650 -0.2658070400 -0.2549084591 -0.2530999964 -0.2465175669 -0.2310908961
34	23.800 -0.3319980002 -0.2795917724 -0.2657930868 -0.2549045761 -0.2527707114 -0.2465223267 -0.2310987562
35	24.000 -0.3319964268 -0.2795779257 -0.2657805133 -0.2549012300 -0.2524455378 -0.2465245116 -0.2311076754
36	24.200 -0.3319949347 -0.2795653088 -0.2657691609 -0.2548982917 -0.2521250554 -0.2465238604 -0.2311175890
37	24.400 -0.3319935185 -0.2795538131 -0.2657588863 -0.2548956810 -0.2518098260 -0.2465200649 -0.2311284292
38	24.600 -0.3319921756 -0.2795433388 -0.2657495764 -0.2548933430 -0.2515004298 -0.2465127485 -0.2311401323
39	24.800 -0.3319908985 -0.2795337879 -0.2657411193 -0.2548912340 -0.2511974815 -0.2465014585 -0.2311526263
40	25.000 -0.3319896852 -0.2795250723 -0.2657334228 -0.2548893250 -0.2509016660 -0.2464856477 -0.2311658418
41	25.200 -0.3319885309 -0.2795171089 -0.2657264081 -0.2548875878 -0.2506137559 -0.2464646588 -0.2311797083
42	25.400 -0.3319874314 -0.2795098208 -0.2657199967 -0.2548860019 -0.2503346303 -0.2464377034 -0.2311941545
43	25.600 -0.3319863841 -0.2795031362 -0.2657141306 -0.2548845498 -0.2500653008 -0.2464038479 -0.2312091099
44	25.800 -0.3319853850 -0.2794969878 -0.2657087504 -0.2548832155 -0.2498069192 -0.2463620053 -0.2312245053
45	26.000 -0.3319844326 -0.2794913174 -0.2657038065 -0.2548819887 -0.2495607796 -0.2463109356 -0.2312402734
46	26.200 -0.3319835230 -0.2794860681 -0.2656992562 -0.2548808568 -0.2493282778 -0.2462492795 -0.2312563473
47	26.400 -0.3319826539 -0.2794811896 -0.2656950608 -0.2548798101 -0.2491108595 -0.2461756234 -0.2312726625
48	26.600 -0.3319818237 -0.2794766384 -0.2656911856 -0.2548788403 -0.2489099045 -0.2460886153 -0.2312891570
49	26.800 -0.3319810301 -0.2794723735 -0.2656875990 -0.2548779408 -0.2487265578 -0.2459871028 -0.2313057589
50	28.000 -0.3319769211 -0.2794510208 -0.2656708194 -0.2548736751 -0.2479992558
51	29.800 -0.3319723546 -0.2794261253 -0.2656553552 -0.2548695899 -0.2476419135
52	30.000 -0.3319719366 -0.2794236538 -0.2656540942 -0.2548692432 -0.2476244862
53	30.200 -0.3319715344 -0.2794212321 -0.2656529021 -0.2548689130 -0.2476092499
54	30.400 -0.3319711459 -0.2794188578 -0.2656517744 -0.2548685973 -0.2475958752
55	30.600 -0.3319707709 -0.2794165322 -0.2656507069 -0.2548682948 -0.2475840879
56	30.800 -0.3319704095 -0.2794142544 -0.2656496949 -0.2548680056 -0.2475736653
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Table 2: (1-7)¹Π

3.800	-0.2255299645	-0.2153160497	-0.1918317905	-0.1676575479	-0.1638273929	-0.1610960812	-0.1501985083
4.000	-0.2288463200	-0.2202201253	-0.1974984765	-0.1733211203	-0.1680470715	-0.1665102526	-0.1558602906
4.200	-0.2325323514	-0.2258380871	-0.2030341591	-0.1797289895	-0.1740097307	-0.1709047434	-0.1623437474
4.600	-0.2404443030	-0.2377037085	-0.2132528471	-0.1934289979	-0.1876792386	-0.1789709061	-0.1757060878
4.800	-0.2451656285	-0.2427465087	-0.2179629111	-0.2001496852	-0.1944729022	-0.1847411829	-0.1807887057
5.000	-0.2505842674	-0.2466831443	-0.2224836870	-0.2064678122	-0.2009680150	-0.1913054603	-0.1870168706
5.200	-0.2558942907	-0.2501578540	-0.2268610888	-0.2122297319	-0.2070248497	-0.1976457302	-0.1934132572
5.400	-0.2608015920	-0.2533537624	-0.2311009037	-0.2173721039	-0.2125453672	-0.2035041426	-0.1993056035
5.600	-0.2652151765	-0.2562916947	-0.2351636399	-0.2219140363	-0.2174713225	-0.2087909582	-0.2045823165
5.800	-0.2691047900	-0.2589648054	-0.2389847957	-0.2259184467	-0.2217835122	-0.2134799538	-0.2092108767
6.000	-0.2724709658	-0.2613625304	-0.2425049006	-0.2294461330	-0.2254998164	-0.2175806879	-0.2131994400
6.200	-0.2753336626	-0.2634771497	-0.2456879969	-0.2325337153	-0.2286658172	-0.2211228506	-0.2165830452
6.400	-0.2777255452	-0.2653063118	-0.2485241106	-0.2351999679	-0.2313385509	-0.2241466452	-0.2194141950
6.600	-0.2796871307	-0.2668538216	-0.2510230801	-0.2374680101	-0.2335731074	-0.2266962389	-0.2217528438
6.800	-0.2812630383	-0.2681293082	-0.2532067581	-0.2393377556	-0.2354179680	-0.2288166055	-0.2236596491
7.000	-0.2824991319	-0.2691472299	-0.2551026923	-0.2408589464	-0.2369158480	-0.2305517001	-0.2251910999
7.200	-0.2834404432	-0.2699256093	-0.2567398444	-0.2420570067	-0.2381055792	-0.2319435803	-0.2263981521
7.400	-0.2841297611	-0.2704848043	-0.2581460355	-0.2429665300	-0.2390232734	-0.2330318147	-0.2273258231
7.600	-0.2846067687	-0.2708465250	-0.2593466060	-0.2436221449	-0.2397027316	-0.2338531285	-0.2280136595
7.800	-0.2849075768	-0.2710331493	-0.2603638016	-0.2440572422	-0.2401754699	-0.2344412472	-0.2284961694
8.000	-0.2851062269	-0.2707971990	-0.2619205799	-0.2443891950	-0.2406150386	-0.2350380375	-0.2289611123
8.200	-0.2850575332	-0.2707701913	-0.2624881732	-0.2443416904	-0.2406329554	-0.2350997784	-0.2289914802
8.600	-0.2849398321	-0.2704855588	-0.2629284283	-0.2441848007	-0.2405463047	-0.2350348472	-0.2289130780
8.800	-0.2847712056	-0.2701424344	-0.2632471501	-0.2439401886	-0.2403745846	-0.2348636595	-0.2287415012
9.000	-0.2845667035	-0.2697659091	-0.2634470686	-0.2436272001	-0.2401348982	-0.2346045346	-0.2284896851
9.200	-0.2843386286	-0.2693812506	-0.2635285928	-0.2432629717	-0.2398419931	-0.2342738687	-0.2281684649
9.400	-0.2840968365	-0.2690122212	-0.2634916077	-0.2428625019	-0.2395083025	-0.2338862742	-0.2277869943
9.600	-0.2838490417	-0.2686781654	-0.2633384533	-0.2424386727	-0.2391440671	-0.2334546728	-0.2273531324
9.800	-0.2836011258	-0.2683908216	-0.2630771411	-0.2420022591	-0.2387575319	-0.2329904104	-0.2268740645
10.000	-0.2833574298	-0.2681529333	-0.2627227164	-0.2415618867	-0.2383552266	-0.2325033420	-0.2263564594
10.200	-0.2831210150	-0.2679598735	-0.2622956555	-0.2411124034	-0.2379423233	-0.2320019027	-0.2258067181
10.400	-0.2828939361	-0.2678031941	-0.2618182968	-0.2406931431	-0.2375230036	-0.2314932138	-0.2252310936
10.600	-0.2826774396	-0.2676739026	-0.2613116447	-0.2402717253	-0.2371007879	-0.2309831854	-0.2246357525
10.800	-0.2824721774	-0.2675642832	-0.2607935639	-0.2398607840	-0.2366787787	-0.2304766523	-0.2240268138
11.000	-0.2822783579	-0.2674684686	-0.2602783104	-0.2394601956	-0.2362597868	-0.2299774944	-0.2234103893
11.200	-0.2820958813	-0.2673822936	-0.2597767926	-0.2390691985	-0.2358463735	-0.2294887587	-0.2227926241
11.400	-0.2819244367	-0.2673029274	-0.2592970143	-0.2386868398	-0.2354408249	-0.2290127744	-0.2221797950
11.600	-0.2817635858	-0.2672285054	-0.2588445870	-0.2383123355	-0.2350451210	-0.2285512434	-0.2215784445
11.800	-0.2816128027	-0.2671578223	-0.2584231421	-0.2379453041	-0.2346608997	-0.2281053283	-0.2209955934
12.000	-0.2814715341	-0.2670901196	-0.2580347108	-0.2375858878	-0.2342894614	-0.2276757302	-0.2204390050
12.200	-0.2813392069	-0.2670249230	-0.2576800355	-0.2372347441	-0.2339317815	-0.2272627584	-0.2199174077
12.400	-0.2812152567	-0.2669619475	-0.2573588401	-0.2368929691	-0.2335885646	-0.2268664198	-0.2194404026
12.600	-0.2810991370	-0.2669010236	-0.2570700473	-0.2365619428	-0.2332602945	-0.2264864905	-0.2190173980
12.800	-0.2809903261	-0.2668420567	-0.2567812045	-0.2362431775	-0.2329473069	-0.2261226226	-0.2186550480
13.000	-0.2808883279	-0.2667849918	-0.2565828112	-0.2359381389	-0.2326498259	-0.2257744091	-0.2183539602
13.200	-0.2807926902	-0.2667298074	-0.2563800929	-0.2356481148	-0.2323680161	-0.2254414825	-0.2181075234
13.400	-0.2807029777	-0.2666764868	-0.2562015510	-0.2353741050	-0.2321019886	-0.2251235683	-0.2179043943
13.600	-0.2806188025	-0.2666250295	-0.2560448228	-0.2351167674	-0.2318518099	-0.2248205322	-0.2177323578
13.800	-0.2805397939	-0.2665754310	-0.2559076088	-0.2348763906	-0.2316174743	-0.2245323891	-0.2175808074
14.000	-0.2804656178	-0.2665276875	-0.2557877412	-0.2346529224	-0.2313988877	-0.2242592979	-0.2174415077
14.200	-0.2803959659	-0.2664817906	-0.2556831865	-0.2344460090	-0.2311958405	-0.2240015134	-0.2173083837
14.400	-0.2803305547	-0.2664377318	-0.2555920755	-0.2342550502	-0.2310079915	-0.2237593288	-0.2171770999
14.600	-0.2802691265	-0.2663954968	-0.2555127222	-0.2340792725	-0.2308348592	-0.2235330036	-0.2170446539
15.000	-0.2801572779	-0.2663164074	-0.2553834212	-0.2337696071	-0.2305301859	-0.2231283823	-0.2167697101
15.200	-0.2801064350	-0.2662795013	-0.2553309268	-0.2336337725	-0.2303970990	-0.2229498652	-0.2166258563
15.600	-0.2800139682	-0.2662107860	-0.2552450527	-0.2333952425	-0.2301650389	-0.2226382570	-0.2163261877
15.800	-0.2799720079	-0.2661788994	-0.2552099663	-0.2332907089	-0.2300642223	-0.2225037110	-0.2161718911
16.000	-0.2799326884	-0.2661485997	-0.2551791690	-0.2331948597	-0.2299723230	-0.2223821079	-0.2160159813
16.200	-0.2798958664	-0.2661198379	-0.2551520642	-0.2331069148	-0.2298884574	-0.2222724083	-0.2158596016
16.400	-0.2798614051	-0.2660925630	-0.2551281533	-0.2330261592	-0.2298117876	-0.2221735308	-0.2157038734
16.600	-0.2798291764	-0.2660667226	-0.2551069878	-0.2329519374	-0.2297415304	-0.2220843963	-0.2155498512
16.800	-0.2797990548	-0.2660422639	-0.2550882007	-0.2328836529	-0.2296769602	-0.2220039568	-0.2153984570
17.000	-0.2797709234	-0.2660191308	-0.2550714682	-0.2328207624	-0.2296174163	-0.2219312246	-0.2152504980
17.200	-0.2797446679	-0.2659972667	-0.2550565151	-0.2327627720	-0.2295622961	-0.2218652817	-0.2151066049
17.400	-0.2797201784	-0.2659766184	-0.2550431076	-0.2327092356	-0.2295110621	-0.2218052943	-0.2149672544
17.600	-0.2796973514	-0.2659571285	-0.2550310415	-0.2326597484	-0.2294632352	-0.2217505115	-0.2148327961
17.800	-0.2796760860	-0.2659387438	-0.2550201464	-0.2326139478	-0.2294183888	-0.2217002649	-0.2147034408
18.000	-0.2796562848	-0.2659214086	-0.2550102743	-0.2325714991	-0.2293761454	-0.2216539636	-0.2145792931
18.200	-0.2796378546	-0.2659050725	-0.2550012973	-0.2325321052	-0.2293361785	-0.2216110885	-0.2144603660
18.400	-0.2796207062	-0.2658896833	-0.2549931069	-0.2324954956	-0.2292981981	-0.2215711920	-0.2143466056
18.600	-0.2796047551	-0.2658751886	-0.2549856104	-0.2324614261	-0.2292619563	-0.2215338771	-0.2142378849
18.800	-0.2795899195	-0.2658615442	-0.2549787300	-0.2324296769	-0.2292272374	-0.2214988074	-0.2141340482

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3	19.000 -0.2795761223 -0.2658487006 -0.2549723934 -0.2324000464 -0.2291938546 -0.2214656905 -0.2140349084
4	19.200 -0.2795632911 -0.2658366130 -0.2549665393 -0.2323723563 -0.2291616480 -0.2214342748 -0.2139402568
5	19.600 -0.2795402529 -0.2658145376 -0.2549560894 -0.2323221570 -0.2291002413 -0.2213757120 -0.2137635289
6	19.800 -0.2795299200 -0.2658044708 -0.2549514083 -0.2322993701 -0.2290708286 -0.2213482225 -0.2136810056
7	20.000 -0.2795202986 -0.2657949983 -0.2549470418 -0.2322779577 -0.2290421588 -0.2213217377 -0.2136020793
8	20.200 -0.2795113354 -0.2657860866 -0.2549429611 -0.2322578118 -0.2290141649 -0.2212961426 -0.2135265351
9	20.400 -0.2795029819 -0.2657777027 -0.2549391404 -0.2322388342 -0.2289867887 -0.2212713435 -0.2134541662
10	20.600 -0.2794951892 -0.2657698120 -0.2549355555 -0.2322209354 -0.2289599824 -0.2212472513 -0.2133847747
11	20.800 -0.2794879143 -0.2657623860 -0.2549321863 -0.2322040329 -0.2289337070 -0.2212237987 -0.2133181716
12	21.000 -0.2794811182 -0.2657553962 -0.2549290160 -0.2321880545 -0.2289079313 -0.2212009267 -0.2132541809
13	21.200 -0.2794747621 -0.2657488159 -0.2549260283 -0.2321729322 -0.2288826281 -0.2211785839 -0.2131926322
14	25.000 -0.2794048643 -0.2656754225 -0.2548911319 -0.2319906829 -0.2284794401 -0.2208265355 -0.2123268699
15	25.200 -0.2794027618 -0.2656733078 -0.2548900300 -0.2319846614 -0.2284621641 -0.2208113599 -0.2122916436
16	25.400 -0.2794007492 -0.2656713010 -0.2548889740 -0.2319788696 -0.2284452862 -0.2207965154 -0.2122571276
17	26.200 -0.2793935007 -0.2656642375 -0.2548851694 -0.2319577811 -0.2283817836 -0.2207405005 -0.2121258730
18	26.600 -0.2793902950 -0.2656612107 -0.2548834895 -0.2319483500 -0.2283524530 -0.2207145091 -0.2120642417
19	26.800 -0.2793887850 -0.2656598080 -0.2548826992 -0.2319438837 -0.2283383969 -0.2207020180 -0.2120344263
20	27.000 -0.2793873306 -0.2656584723 -0.2548819390 -0.2319395734 -0.2283247457 -0.2206898600 -0.2120052813
21	27.400 -0.2793845809 -0.2656559913 -0.2548805049 -0.2319313950 -0.2282986607 -0.2206665402 -0.2119490363
22	29.600 -0.2793725081 -0.2656458773 -0.2548742671 -0.2318952364 -0.2281837218 -0.2205609177 -0.2116907007
23	29.800 -0.2793716180 -0.2656451886 -0.2548738119 -0.2318925742 -0.2281755722 -0.2205530862 -0.2116715904
24	30.600 -0.2793683314 -0.2656427195 -0.2548721374 -0.2318827967 -0.2281464885 -0.2205244072 -0.2116022322
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Table 3: (1-5)¹Δ

3.000	-0.2183254046	-0.1821521217	-0.1716545814	-0.1613221730	-0.1563997614
3.400	-0.2126542123	-0.1687737706	-0.1634744509	-0.1573752147	-0.1514123439
3.600	-0.2150823595	-0.1718510387	-0.1639677483	-0.1555373094	-0.1534287281
3.800	-0.2189763089	-0.1765924982	-0.1665875641	-0.1585569422	-0.1531018862
4.000	-0.2236065243	-0.1818775212	-0.1703415696	-0.1633067286	-0.1549515933
4.200	-0.2285372970	-0.1872509189	-0.1752039494	-0.1679430115	-0.1612087073
4.600	-0.2383449859	-0.1975206397	-0.1875754167	-0.1755565493	-0.1752953685
4.800	-0.2429570799	-0.2022672691	-0.1941801875	-0.1822967126	-0.1791542704
5.000	-0.2472745371	-0.2067260032	-0.2006204387	-0.1889383542	-0.1840416202
5.200	-0.2512540005	-0.2109016189	-0.2067095198	-0.1950777544	-0.1899186506
5.400	-0.2548678044	-0.2148057069	-0.2123322133	-0.2006107917	-0.1956198967
5.600	-0.2581004991	-0.2184476149	-0.2174219749	-0.2054886093	-0.2008332765
5.800	-0.2609471163	-0.2220224500	-0.2217507368	-0.2097137268	-0.2054785703
6.000	-0.2634120472	-0.2259736619	-0.2248551517	-0.2133290407	-0.2095390355
6.200	-0.2655079679	-0.2294265396	-0.2276030374	-0.2164001522	-0.2130259674
6.400	-0.2672545260	-0.2323806770	-0.2300055193	-0.2189972304	-0.2159663569
6.600	-0.2686767691	-0.2348729082	-0.2320562261	-0.2211828377	-0.2183973884
6.800	-0.2698034313	-0.2369445912	-0.2337614255	-0.2230071411	-0.2203636141
7.000	-0.2706652783	-0.2386378880	-0.2351384246	-0.2245086426	-0.2219144495
7.200	-0.2712936620	-0.2399937818	-0.2362119047	-0.2257178644	-0.2231007757
7.400	-0.2717193926	-0.2410509181	-0.2370105056	-0.2266613810	-0.2239714311
7.600	-0.2719719475	-0.2418449921	-0.2375642487	-0.2273643768	-0.2245709382
7.800	-0.2720789398	-0.2424084939	-0.2379028349	-0.2278514676	-0.2249387646
8.200	-0.2719556954	-0.2429578361	-0.2380459935	-0.2282725427	-0.2251136750
8.400	-0.2717693198	-0.2429932979	-0.2379012553	-0.2282507523	-0.2249778258
8.600	-0.2715250508	-0.2428979673	-0.2376424164	-0.2281010084	-0.2247255255
8.800	-0.2712389240	-0.2426905102	-0.2372893125	-0.2278414743	-0.2243775427
9.000	-0.2709247307	-0.2423876840	-0.2368596855	-0.2274887237	-0.2239522262
9.200	-0.2705941237	-0.2420046137	-0.2363692983	-0.2270578387	-0.2234657878
9.400	-0.2702567506	-0.2415550293	-0.2358320595	-0.2265625151	-0.2229325067
9.600	-0.2699204068	-0.2410514608	-0.2352601319	-0.2260151662	-0.2223649151
9.800	-0.2695912019	-0.2405053731	-0.2346640435	-0.2254270171	-0.2217739275
10.000	-0.2692737490	-0.2399272763	-0.2340527857	-0.2248081754	-0.2211689520
10.200	-0.2689713564	-0.2393267825	-0.2334339159	-0.2241677062	-0.2205579976
10.400	-0.2686862269	-0.2387126586	-0.2328136810	-0.2235136993	-0.2199477756
10.600	-0.2684196517	-0.2380928613	-0.2321971471	-0.2228533507	-0.2193438309
10.800	-0.2681721887	-0.2374745599	-0.2315883600	-0.2221930493	-0.2187506751
11.000	-0.2679438342	-0.2368641501	-0.2309905019	-0.2215384568	-0.2181719564
11.200	-0.2677341586	-0.2362672672	-0.2304060696	-0.2208945937	-0.2176106195
11.400	-0.2675424321	-0.2356887681	-0.2298370197	-0.2202658974	-0.2170690599
11.600	-0.2673677232	-0.2351327221	-0.2292849226	-0.2196562684	-0.2165492605
11.800	-0.2672089686	-0.2346023904	-0.2287510672	-0.2190690824	-0.2160528581
12.000	-0.2670650455	-0.2341002290	-0.2282365558	-0.2185071927	-0.2155811547
12.200	-0.2669348066	-0.2336278934	-0.2277423496	-0.2179729062	-0.2151350548
12.400	-0.2668171176	-0.2331862958	-0.2272692992	-0.2174679655	-0.2147149907
12.600	-0.2667108805	-0.2327756486	-0.2268181314	-0.2169935110	-0.2143208632
12.800	-0.2666150512	-0.2323955842	-0.2263894395	-0.2165500998	-0.2139520831
13.000	-0.2665286462	-0.2320452311	-0.2259836395	-0.2161376984	-0.2136076672
13.200	-0.2664507530	-0.2317233405	-0.2256009521	-0.2157557550	-0.2132863906
13.400	-0.2663805265	-0.2314283875	-0.2252413718	-0.2154032559	-0.2129869134
13.600	-0.2663171965	-0.2311586730	-0.2249046658	-0.2150788362	-0.2127078924
13.800	-0.2662600598	-0.2309123989	-0.2245903749	-0.2147808666	-0.2124480329
14.000	-0.2662084770	-0.2306877424	-0.2242978289	-0.2145075673	-0.2122061144
14.200	-0.2661618735	-0.2304829102	-0.2240261894	-0.2142570829	-0.2119809939
14.400	-0.2661197297	-0.2302961706	-0.2237744679	-0.2140275632	-0.2117715915
14.600	-0.2660815813	-0.2301258844	-0.2235415805	-0.2138172106	-0.2115768793
15.000	-0.2660156444	-0.2298286594	-0.2231276632	-0.2134473107	-0.2112275790
15.200	-0.2659871505	-0.2296990067	-0.2229442659	-0.2132847161	-0.2110710819
15.600	-0.2659376202	-0.2294717072	-0.2226188057	-0.2129975829	-0.2107897722
15.800	-0.2659160850	-0.2293720255	-0.2224745604	-0.2128707665	-0.2106631869
16.000	-0.2658964128	-0.2292804676	-0.2223412797	-0.2127537911	-0.2105448444
16.200	-0.2658784173	-0.2291962551	-0.2222180338	-0.2126457928	-0.2104339431
16.400	-0.2658619317	-0.2291186921	-0.2221039601	-0.2125460012	-0.2103297192
16.600	-0.2658468072	-0.2290471555	-0.2219982680	-0.2124537259	-0.2102314585
16.800	-0.2658329121	-0.2289810895	-0.2219002333	-0.2123683492	-0.2101384995
17.000	-0.2658201276	-0.2289199940	-0.2218091978	-0.2122893169	-0.2100502291
17.200	-0.2658083486	-0.2288634233	-0.2217245619	-0.2122161265	-0.2099660928
17.400	-0.2657974805	-0.2288109785	-0.2216457850	-0.2121483252	-0.2098855840
17.600	-0.2657874398	-0.2287623026	-0.2215723753	-0.2120855001	-0.2098082529
17.800	-0.2657781509	-0.2287170728	-0.2215038906	-0.2120272717	-0.2097336994
18.000	-0.2657695452	-0.2286750004	-0.2214399279	-0.2119732930	-0.2096615702
18.200	-0.2657615637	-0.2286358239	-0.2213801261	-0.2119232441	-0.2095915569

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3	18.400 -0.2657541507 -0.2285993096 -0.2213241572 -0.2118768274 -0.2095233941
4	18.600 -0.2657472571 -0.2285652439 -0.2212717231 -0.2118337688 -0.2094568487
5	18.800 -0.2657408399 -0.2285334362 -0.2212225566 -0.2117938119 -0.2093917296
6	19.000 -0.2657348582 -0.2285037096 -0.2211764120 -0.2117567186 -0.2093278657
7	19.200 -0.2657292761 -0.2284759074 -0.2211330681 -0.2117222674 -0.2092651168
8	19.600 -0.2657191854 -0.2284255078 -0.2210539927 -0.2116604822 -0.2091425191
9	19.800 -0.2657146215 -0.2284026607 -0.2210179104 -0.2116327791 -0.2090824854
10	20.000 -0.2657103437 -0.2283812289 -0.2209839188 -0.2116069759 -0.2090231976
11	20.200 -0.2657063309 -0.2283611137 -0.2209518794 -0.2115829195 -0.2089645992
12	20.400 -0.2657025644 -0.2283422238 -0.2209216638 -0.2115604712 -0.2089066399
13	20.600 -0.2656990239 -0.2283244713 -0.2208931488 -0.2115394968 -0.2088492758
14	20.800 -0.2656956933 -0.2283077802 -0.2208662283 -0.2115198756 -0.2087924710
15	21.000 -0.2656925584 -0.2282920777 -0.2208408013 -0.2115014985 -0.2087361923
16	21.200 -0.2656896042 -0.2282772986 -0.2208167722 -0.2114842618 -0.2086804114
17	21.400 -0.2656868189 -0.2282633796 -0.2207940564 -0.2114680737 -0.2086250995
18	21.600 -0.2656841892 -0.2282502648 -0.2207725698 -0.2114528457 -0.2085702286
19	21.800 -0.2656817066 -0.2282379033 -0.2207522433 -0.2114385006 -0.2085157785
20	22.000 -0.2656793594 -0.2282262450 -0.2207330046 -0.2114249655 -0.2084617210
21	22.200 -0.2656771390 -0.2282152451 -0.2207147890 -0.2114121752 -0.2084080308
22	22.400 -0.2656750368 -0.2282048623 -0.2206975359 -0.2114000694 -0.2083546851
23	22.600 -0.2656730461 -0.2281950584 -0.2206811925 -0.2113885944 -0.2083016597
24	22.800 -0.2656711581 -0.2281857950 -0.2206657011 -0.2113776982 -0.2082489256
25	23.000 -0.2656693685 -0.2281770438 -0.2206510184 -0.2113673381 -0.2081964623
26	23.200 -0.2656676685 -0.2281687685 -0.2206370949 -0.2113574694 -0.2081442416
27	23.400 -0.2656660541 -0.2281609413 -0.2206238885 -0.2113480580 -0.2080922367
28	23.600 -0.2656645200 -0.2281535371 -0.2206113597 -0.2113390667 -0.2080404218
29	23.800 -0.2656630615 -0.2281465303 -0.2205994708 -0.2113304673 -0.2079887719
30	24.000 -0.2656616739 -0.2281398958 -0.2205881868 -0.2113222293 -0.2079372585
31	24.200 -0.2656603521 -0.2281336127 -0.2205774720 -0.2113143267 -0.2078858552
32	24.400 -0.2656590924 -0.2281276589 -0.2205672954 -0.2113067368 -0.2078345373
33	24.600 -0.2656578932 -0.2281220182 -0.2205576316 -0.2112994391 -0.2077832790
34	24.800 -0.2656567483 -0.2281166692 -0.2205484486 -0.2112924123 -0.2077320537
35	25.000 -0.2656556566 -0.2281115978 -0.2205397227 -0.2112856408 -0.2076808358
36	25.200 -0.2656546149 -0.2281067870 -0.2205314282 -0.2112791083 -0.2076296028
37	25.400 -0.2656536194 -0.2281022207 -0.2205235418 -0.2112727981 -0.2075783287
38	25.600 -0.2656526682 -0.2280978869 -0.2205160434 -0.2112666978 -0.2075269924
39	25.800 -0.2656517583 -0.2280937713 -0.2205089093 -0.2112607944 -0.2074755687
40	26.000 -0.2656500565 -0.2280861472 -0.2204956641 -0.2112495394 -0.2073723785
41	26.200 -0.2656477663 -0.2280760649 -0.2204780929 -0.2112338882 -0.2072164308
42	26.400 -0.2656470654 -0.2280730247 -0.2204727856 -0.2112289662 -0.2071640647
43	26.600 -0.2656457492 -0.2280673751 -0.2204629102 -0.2112195258 -0.2070586562
44	26.800 -0.2656445377 -0.2280622470 -0.2204539388 -0.2112105799 -0.2069522455
45	27.000 -0.2656423872 -0.2280533335 -0.2204383532 -0.2111940130 -0.2067359905
46	27.200 -0.2656409828 -0.2280476403 -0.2204284294 -0.2111826149 -0.2065704487
47	27.400 -0.2656405491 -0.2280459040 -0.2204254145 -0.2111789909 -0.2065145795
48	27.600 -0.2656393419 -0.2280411226 -0.2204171453 -0.2111686056 -0.2063448046
49	27.800 -0.2656389693 -0.2280396587 -0.2204146293 -0.2111652971 -0.2062874698
50	28.000 -0.2656386094 -0.2280382523 -0.2204122202 -0.2111620597 -0.2062297551
51	28.200 -0.2656379277 -0.2280356041 -0.2204077109 -0.2111557926 -0.2061131673
52	
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Table 4: $(1-6)^3\Sigma^+$

3.200	-0.2525451376	-0.2090715390	-0.1769390767	-0.1683191818	-0.1618905204	-0.1562998297
3.400	-0.2513120754	-0.2084448078	-0.1770362056	-0.1655273646	-0.1613657285	-0.1544880607
3.600	-0.2531404431	-0.2107258439	-0.1801548225	-0.1657097983	-0.1637620275	-0.1564242941
3.800	-0.2568217070	-0.2147533124	-0.1852098615	-0.1685662660	-0.1670637384	-0.1609213705
4.000	-0.2615972289	-0.2198024451	-0.1915872964	-0.1740253293	-0.1701891341	-0.1667275882
4.200	-0.2669796121	-0.2254004993	-0.1989078780	-0.1804437639	-0.1754307477	-0.1718504951
4.400	-0.2783710111	-0.2370532622	-0.2152186466	-0.1947626965	-0.1902873291	-0.1825006856
4.800	-0.2839983223	-0.2427233935	-0.2236204204	-0.2021640706	-0.1976577964	-0.1894109084
5.000	-0.2894128250	-0.2481278081	-0.2317890090	-0.2093598180	-0.2046134096	-0.1962769151
5.200	-0.2945331323	-0.2531986486	-0.2394730123	-0.2161236372	-0.2110740450	-0.2027763469
5.400	-0.2993039490	-0.2579019120	-0.2464891847	-0.2223210413	-0.2169928841	-0.2087659484
5.600	-0.3036913077	-0.2622318247	-0.2527221604	-0.2278919527	-0.2223391969	-0.2141790150
5.800	-0.3076787874	-0.2662037727	-0.2581125733	-0.2328237279	-0.2270996579	-0.2189934210
6.000	-0.3112642893	-0.2698411729	-0.2626489505	-0.2371322469	-0.2312788288	-0.2232155282
6.200	-0.3144571479	-0.2731562747	-0.2663689171	-0.2408504399	-0.2348968256	-0.2268698863
6.400	-0.3172754529	-0.2761394226	-0.2693562054	-0.2440211547	-0.2379856310	-0.2299922055
6.600	-0.3197435145	-0.2787706152	-0.2717189799	-0.2466923668	-0.2405851287	-0.2326243867
6.800	-0.3218894881	-0.2810392963	-0.2735625336	-0.2489137887	-0.2427395560	-0.2348109964
7.000	-0.3237433507	-0.2829526032	-0.2749755671	-0.2507344649	-0.2444946131	-0.2365967886
7.200	-0.3253352715	-0.2845322034	-0.2760294992	-0.2522011630	-0.2458953418	-0.2380250600
7.400	-0.3266944795	-0.2858079803	-0.2767823090	-0.2533574128	-0.2469846802	-0.2391366659
7.600	-0.3278485260	-0.2868129142	-0.2772822478	-0.2542430438	-0.2478026077	-0.2399695351
7.800	-0.3288228835	-0.2875799210	-0.2775704082	-0.2548940751	-0.2483856975	-0.2405585039
8.200	-0.3303231148	-0.2885224082	-0.2776490352	-0.2556182141	-0.2489759123	-0.2411290860
8.400	-0.3308886344	-0.2887526920	-0.2774976201	-0.2557459847	-0.2490387300	-0.2411659663
8.600	-0.3313539290	-0.2888545535	-0.2772517840	-0.2557491378	-0.2489785113	-0.2410699975
8.800	-0.3317336400	-0.2888491700	-0.2769321431	-0.2556482266	-0.2488155687	-0.2408654268
9.000	-0.3320405919	-0.2887556017	-0.2765565366	-0.2554616727	-0.2485677809	-0.2420408647
9.200	-0.3322859766	-0.2885909992	-0.2761402817	-0.2552060398	-0.2482510592	-0.2432526635
9.400	-0.3324794938	-0.2883707348	-0.2756963935	-0.2548962601	-0.2478803191	-0.2443814453
9.600	-0.3326295126	-0.2881084852	-0.2752357968	-0.2545458284	-0.2474733605	-0.2454169953
9.800	-0.3327432235	-0.2878162316	-0.2747675208	-0.2541669405	-0.2470936526	-0.2463071534
10.000	-0.3328267657	-0.2875042271	-0.2742988898	-0.2537706582	-0.2474053117	-0.2463991306
10.200	-0.3328853620	-0.2871809784	-0.2738356988	-0.2533671174	-0.2481711654	-0.2459401983
10.400	-0.3329234297	-0.2868532892	-0.2733824122	-0.2529659762	-0.2489014793	-0.2454282540
10.600	-0.3329446966	-0.2865263751	-0.2729423453	-0.2525775899	-0.2495668021	-0.2448978475
10.800	-0.3329522973	-0.2862040571	-0.2725178505	-0.2522169085	-0.2501570526	-0.2443574231
11.000	-0.3329488656	-0.2858890241	-0.2721104956	-0.2519201937	-0.2506428595	-0.2438115115
11.200	-0.3329366154	-0.2855830755	-0.2717212199	-0.2518119847	-0.2509062667	-0.2432633554
11.400	-0.3329174031	-0.2852873726	-0.2713504873	-0.2520202758	-0.2508251187	-0.2427155740
11.600	-0.3328927890	-0.2850026111	-0.2709983914	-0.2523569302	-0.2505925817	-0.2421704243
11.800	-0.3328640769	-0.2847291799	-0.2706647615	-0.2526978409	-0.2503370175	-0.2416299218
12.000	-0.3328323604	-0.2844672470	-0.2703492390	-0.2530148288	-0.2500901534	-0.2410958909
12.200	-0.3327985470	-0.2842168204	-0.2700513334	-0.2533019104	-0.2498608837	-0.2405699895
12.400	-0.3327633952	-0.2839777978	-0.2697704661	-0.2535586725	-0.2496519766	-0.2400537084
12.600	-0.3327275168	-0.2837499939	-0.2695060049	-0.2537864636	-0.2494639613	-0.2395483678
12.800	-0.3326914302	-0.2835331439	-0.2692572800	-0.2539872489	-0.2492963555	-0.2390551098
13.000	-0.3326555370	-0.2833269295	-0.2690236109	-0.2541631939	-0.2491481428	-0.2385748976
13.200	-0.3326201657	-0.2831309993	-0.2688043045	-0.2543164967	-0.2490180149	-0.2381085215
13.400	-0.3325855770	-0.2829449475	-0.2685986704	-0.2544492980	-0.2489045111	-0.2376566032
13.600	-0.3325519696	-0.2827683599	-0.2684060222	-0.2545636386	-0.2488061037	-0.2372196164
13.800	-0.3325194881	-0.2826008010	-0.2682256825	-0.2546614455	-0.2487212608	-0.2367978932
14.000	-0.3324882446	-0.2824418230	-0.2680569809	-0.2547445147	-0.2486484822	-0.2363916449
14.200	-0.3324583097	-0.2822909804	-0.2678992629	-0.2548145111	-0.2485863310	-0.2360009768
14.400	-0.3324297249	-0.2821478291	-0.2677518911	-0.2548729619	-0.2485334544	-0.2356259126
14.600	-0.3324025142	-0.2820119336	-0.2676142443	-0.2549212691	-0.2484885922	-0.2352663993
15.000	-0.3323522047	-0.2817602278	-0.2673657440	-0.2549924101	-0.2484183718	-0.2345935377
15.200	-0.3323290642	-0.2816436255	-0.2672537628	-0.2550174306	-0.2483910059	-0.2342798463
15.800	-0.3322672788	-0.2813264759	-0.2669606649	-0.2550611431	-0.2483299388	-0.2334271774
16.400	-0.3322159337	-0.2810518135	-0.2667222576	-0.2550724157	-0.2482873296	-0.2327046626
16.600	-0.3322008908	-0.2809684671	-0.2666530686	-0.2550714750	-0.2482750639	-0.2325004783
16.800	-0.3321867951	-0.2808888507	-0.2665884397	-0.2550688712	-0.2482632180	-0.2323997764
17.000	-0.3321735924	-0.2808127718	-0.2665280555	-0.2550649258	-0.2482515502	-0.2324447669
17.200	-0.3321612305	-0.2807400535	-0.2664716288	-0.2550599218	-0.2482398656	-0.2325060583
17.400	-0.3321496605	-0.2806705325	-0.2664188875	-0.2550541003	-0.2482280090	-0.2325673099
17.600	-0.3321388319	-0.2806040591	-0.2663695840	-0.2550476669	-0.2482158669	-0.2326261339
17.800	-0.3321286992	-0.2805404953	-0.2663234845	-0.2550408005	-0.2482033556	-0.2326816679
18.000	-0.3321192183	-0.2804797159	-0.2662803738	-0.2550336387	-0.2481904176	-0.2327334888
18.200	-0.3321103464	-0.2804216033	-0.2662400521	-0.2550263102	-0.2481770220	-0.2327813398
18.400	-0.3321020436	-0.2803660493	-0.2662023336	-0.2550189117	-0.2481631576	-0.2328250763
18.600	-0.3320942722	-0.2803129491	-0.2661670457	-0.2550115275	-0.2481488274	-0.2328646224
18.800	-0.3320869972	-0.2802622092	-0.2661340281	-0.2550042291	-0.2481340504	-0.2328999645
19.000	-0.3320801839	-0.2802137417	-0.2661031317	-0.2549970645	-0.2481188554	-0.2329311167

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2	
3	19.200 -0.3320738010 -0.2801674605 -0.2660742170 -0.2549900806 -0.2481032809 -0.2329581574
4	19.600 -0.3320622132 -0.2800811574 -0.2660218267 -0.2549767633 -0.2480711695 -0.2330002308
5	19.800 -0.3320569556 -0.2800409878 -0.2659981199 -0.2549704788 -0.2480547354 -0.2330155205
6	20.000 -0.3320520213 -0.2800027229 -0.2659759288 -0.2549644507 -0.2480381177 -0.2330271727
7	20.200 -0.3320473891 -0.2799662953 -0.2659551543 -0.2549586977 -0.2480213708 -0.2330353404
8	20.400 -0.3320430392 -0.2799316498 -0.2659357060 -0.2549532187 -0.2480045502 -0.2330402159
9	20.600 -0.3320389508 -0.2798987342 -0.2659175001 -0.2549480077 -0.2479877050 -0.2330419853
10	20.800 -0.3320351065 -0.2798674930 -0.2659004548 -0.2549430672 -0.2479708860 -0.2330408164
11	21.000 -0.3320314902 -0.2798378800 -0.2658844967 -0.2549383902 -0.2479541434 -0.2330369306
12	21.200 -0.3320280859 -0.2798098487 -0.2658695552 -0.2549339692 -0.2479375178 -0.2330305198
13	21.400 -0.3320248804 -0.2797833506 -0.2658555637 -0.2549297980 -0.2479210583 -0.2330217949
14	21.600 -0.3320218586 -0.2797583438 -0.2658424609 -0.2549258639 -0.2479047987 -0.2330109578
15	21.800 -0.3320190104 -0.2797347846 -0.2658301898 -0.2549221612 -0.2478887743 -0.2329982157
16	22.000 -0.3320163228 -0.2797126277 -0.2658186961 -0.2549186765 -0.2478730183 -0.2329837640
17	22.200 -0.3320137854 -0.2796918283 -0.2658079299 -0.2549154015 -0.2478575595 -0.2329677953
18	22.400 -0.3320113883 -0.2796723423 -0.2657978406 -0.2549123246 -0.2478424219 -0.2329504944
19	22.600 -0.3320091236 -0.2796541223 -0.2657883875 -0.2549094377 -0.2478276265 -0.2329320466
20	22.800 -0.3320069808 -0.2796371200 -0.2657795228 -0.2549067263 -0.2478131927 -0.2329126113
21	23.000 -0.3320049547 -0.2796212865 -0.2657712133 -0.2549041848 -0.2477991361 -0.2328923500
22	23.200 -0.3320030352 -0.2796065674 -0.2657634193 -0.2549018007 -0.2477854673 -0.2328714070
23	23.400 -0.3320012171 -0.2795929114 -0.2657561072 -0.2548995645 -0.2477721986 -0.2328499161
24	23.600 -0.3319994939 -0.2795802630 -0.2657492450 -0.2548974703 -0.2477593337 -0.2328279986
25	23.800 -0.3319978600 -0.2795685659 -0.2657428017 -0.2548955067 -0.2477468795 -0.2328057692
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27	24.200 -0.3319948367 -0.2795477946 -0.2657310595 -0.2548919433 -0.2477232057 -0.2327607546
28	24.400 -0.3319934367 -0.2795386040 -0.2657257103 -0.2548903260 -0.2477119863 -0.2327381336
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30	24.800 -0.3319908416 -0.2795223294 -0.2657159480 -0.2548873883 -0.2476907645 -0.2326930155
31	25.000 -0.3319896375 -0.2795151312 -0.2657114903 -0.2548860558 -0.2476807514 -0.2326706266
32	25.200 -0.3319884911 -0.2795084869 -0.2657072942 -0.2548848051 -0.2476711302 -0.2326484131
33	25.400 -0.3319873984 -0.2795023454 -0.2657033360 -0.2548836296 -0.2476618907 -0.2326264116
34	25.600 -0.3319863566 -0.2794966568 -0.2656996055 -0.2548825260 -0.2476530244 -0.2326046566
35	25.800 -0.3319853619 -0.2794913740 -0.2656960835 -0.2548814887 -0.2476445238 -0.2325831715
36	26.000 -0.3319844133 -0.2794864552 -0.2656927602 -0.2548805141 -0.2476363777 -0.2325619838
37	26.200 -0.3319835070 -0.2794818585 -0.2656896233 -0.2548795970 -0.2476285758 -0.2325411099
38	26.400 -0.3319826405 -0.2794775459 -0.2656866582 -0.2548787338 -0.2476211089 -0.2325205672
39	26.600 -0.3319818126 -0.2794734861 -0.2656838540 -0.2548779205 -0.2476139650 -0.2325003696
40	26.800 -0.3319810209 -0.2794696476 -0.2656812030 -0.2548771545 -0.2476071338 -0.2324805267
41	28.000 -0.3319769180 -0.2794498890 -0.2656679947 -0.2548733673 -0.2475721027 -0.2323693521
42	29.800 -0.3319723539 -0.2794258320 -0.2656545255 -0.2548695135 -0.2475350051 -0.2322287457
43	30.000 -0.3319719360 -0.2794234024 -0.2656533704 -0.2548691779 -0.2475317792 -0.2322150334
44	30.200 -0.3319715339 -0.2794210166 -0.2656522708 -0.2548688566 -0.2475287064 -0.2322016922
45	30.400 -0.3319711454 -0.2794186732 -0.2656512239 -0.2548685489 -0.2475257758 -0.2321887172
46	30.600 -0.3319707705 -0.2794163730 -0.2656502261 -0.2548682532 -0.2475229798 -0.2321761014
47	30.800 -0.3319704092 -0.2794141184 -0.2656492756 -0.2548679698 -0.2475203150 -0.2321638451
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Table 5: (1-8)³Π

3.800	-0.2511765019	-0.2232843899	-0.1909541611	-0.1663916391	-0.1642561700	-0.1603177350	-0.1578633437	-0.1567438511
4.000	-0.2575271466	-0.2265924630	-0.1949350538	-0.1722259777	-0.1694721542	-0.1640551419	-0.1610634257	-0.1592396045
4.200	-0.2639314036	-0.2306097455	-0.1991905873	-0.1789235851	-0.1755423957	-0.1689907665	-0.1653696412	-0.1621036296
4.600	-0.2761049870	-0.2396125981	-0.2075924047	-0.1933586742	-0.1887275698	-0.1810408416	-0.1751781854	-0.1715949410
4.800	-0.2816303401	-0.2442106780	-0.2114972817	-0.2005772049	-0.1953331645	-0.1878795125	-0.1793821811	-0.1788070546
5.000	-0.2866749984	-0.2486885377	-0.2151401660	-0.2075217520	-0.2016867363	-0.1946650248	-0.1859818732	-0.1832546116
5.200	-0.2911899929	-0.2529464841	-0.2185203401	-0.2140401515	-0.2076451765	-0.2011285383	-0.1926042360	-0.1886728582
5.400	-0.2951481186	-0.2569109487	-0.2216704830	-0.2200188407	-0.2131020991	-0.2071218578	-0.1987020452	-0.1942666537
5.600	-0.2985417808	-0.2605320317	-0.2254940088	-0.2245378376	-0.2179778798	-0.2125649628	-0.2042107692	-0.1993671356
5.800	-0.3013800235	-0.2637807954	-0.2302585394	-0.2273683451	-0.2222086308	-0.2174220547	-0.2091056337	-0.2039123525
6.000	-0.3036850957	-0.2666461521	-0.2344405119	-0.2301026622	-0.2257528962	-0.2216877230	-0.2133895003	-0.2078993244
6.200	-0.3054890319	-0.2691315343	-0.2380418892	-0.2327726233	-0.2286405856	-0.2253774486	-0.2170845831	-0.2113560911
6.400	-0.3075051121	-0.2712515673	-0.2410988279	-0.2353019877	-0.2309991762	-0.2285206351	-0.2202261366	-0.2143769492
6.600	-0.3077521132	-0.2730288766	-0.2436578547	-0.2375957028	-0.2329781724	-0.2311552987	-0.2228574647	-0.2170114448
6.800	-0.3082980153	-0.2744911988	-0.2457708190	-0.2396027453	-0.2346830689	-0.2333243805	-0.2250261797	-0.2192070106
7.000	-0.3085121541	-0.2756689326	-0.2474918809	-0.2413129638	-0.2361739505	-0.2350744933	-0.2267813507	-0.2209895329
7.200	-0.3084368392	-0.2765932157	-0.2488755551	-0.2427375397	-0.2374807427	-0.2364560319	-0.2281714038	-0.2224002234
7.400	-0.3081118385	-0.2773934918	-0.2499754831	-0.2438960800	-0.2386183136	-0.2375185021	-0.2242258503	-0.2234806838
7.600	-0.3075738808	-0.2778018758	-0.2508435556	-0.2448102196	-0.2395986396	-0.2383036937	-0.2300379374	-0.2242704447
7.800	-0.3068564574	-0.2781420933	-0.2515290148	-0.2455009697	-0.2404326397	-0.2388466939	-0.2305967937	-0.2248063212
8.200	-0.3050014004	-0.2784169811	-0.2525278718	-0.2462920426	-0.2416909943	-0.2393321877	-0.2311429235	-0.2252507278
8.400	-0.3039155689	-0.2783934918	-0.2529135092	-0.2464335726	-0.2421249739	-0.2393318367	-0.2311899450	-0.2252220763
8.600	-0.3027543935	-0.2782866474	-0.2532582413	-0.2464370688	-0.2424339772	-0.2392029739	-0.2311205601	-0.2250687695
8.800	-0.3015376515	-0.2781115592	-0.2535780077	-0.2463300846	-0.2426214605	-0.2389673183	-0.2309568656	-0.2248301453
9.000	-0.3002831343	-0.2778811975	-0.2538818173	-0.2461429928	-0.2426904617	-0.2386440582	-0.2307184797	-0.2245619235
9.200	-0.2990068737	-0.2776065214	-0.2541736122	-0.2459073541	-0.2426438445	-0.2382501114	-0.2304228905	-0.2243314561
9.400	-0.2977233264	-0.2772965980	-0.2544540999	-0.2456530776	-0.2424856327	-0.2378003571	-0.2300856661	-0.2241822803
9.600	-0.2964455440	-0.2769587476	-0.2547221974	-0.2454046793	-0.2422234905	-0.2373078659	-0.2297205976	-0.2241206135
9.800	-0.2951853110	-0.2765986972	-0.2549760341	-0.2451783542	-0.2418707244	-0.2367840872	-0.2293396856	-0.2241241445
10.000	-0.2939532261	-0.2762207574	-0.2552135404	-0.2449818887	-0.2414456942	-0.2362390113	-0.2289527498	-0.2241517123
10.200	-0.29277187721	-0.2758280239	-0.2554328035	-0.2448172703	-0.2409687562	-0.2356813041	-0.2285667914	-0.2241609005
10.400	-0.2916103323	-0.2754226182	-0.2556321978	-0.2446836515	-0.2404590224	-0.2351184243	-0.2281851323	-0.2241207457
10.600	-0.2905151683	-0.2750059615	-0.2558104687	-0.2445790965	-0.2399325295	-0.2345567060	-0.2278067805	-0.2240149242
10.800	-0.2894793745	-0.2745790674	-0.2559667245	-0.2445010957	-0.2394018411	-0.2340014409	-0.2274267169	-0.2238397710
11.000	-0.2885077803	-0.2741428553	-0.2561004117	-0.2444465215	-0.2388763948	-0.2334569444	-0.2270373833	-0.2236004464
11.200	-0.2876038659	-0.2736984385	-0.2562113225	-0.2444115326	-0.2383631099	-0.2329266365	-0.2266309022	-0.2233068231
11.400	-0.2867696711	-0.2732473646	-0.2562995389	-0.2443915863	-0.2378669696	-0.2324131551	-0.2262010074	-0.2229701342
11.600	-0.2860057675	-0.2727917825	-0.2563654478	-0.2443816050	-0.2373914997	-0.2319184872	-0.2257440046	-0.2226008461
11.800	-0.2853112880	-0.2723344871	-0.2564097094	-0.2443762246	-0.2369391255	-0.2314441290	-0.2252587985	-0.2226078035
12.000	-0.2846840584	-0.2718788685	-0.2564332669	-0.2443700675	-0.2365114281	-0.2309912269	-0.2247463345	-0.2217980845
12.200	-0.2841207971	-0.2714287364	-0.2564373503	-0.2443579695	-0.2361093069	-0.2305606735	-0.2242088990	-0.2213772299
12.400	-0.2836173876	-0.2709880901	-0.2564234659	-0.2443351889	-0.2357331055	-0.2301531696	-0.2236495602	-0.2209495657
12.600	-0.2831691538	-0.2705608433	-0.2563933734	-0.2442975126	-0.2353826955	-0.2297692138	-0.2230717877	-0.2205184479
12.800	-0.2827711513	-0.2701505842	-0.2563490855	-0.2442413917	-0.2350575576	-0.2294090832	-0.2224793099	-0.2200864189
13.000	-0.2824183879	-0.2697603539	-0.2562927912	-0.2441639373	-0.2347568512	-0.2290727862	-0.2218761334	-0.2196552260
13.200	-0.2821060322	-0.2693925284	-0.2562268076	-0.2440629837	-0.2344794882	-0.2287600506	-0.2212667435	-0.2192257170
13.400	-0.2818295195	-0.2690487430	-0.2561535063	-0.2439370691	-0.2342241994	-0.2284703093	-0.2206564183	-0.2187975675
13.600	-0.2815846498	-0.2687299042	-0.2560752103	-0.2437854236	-0.2339896010	-0.2282027344	-0.2200517476	-0.2183688540
13.800	-0.2813676150	-0.2684362442	-0.2559941063	-0.2436079243	-0.2337742489	-0.2279562741	-0.2194612428	-0.2179354831
14.000	-0.2811750088	-0.2681674133	-0.2559121878	-0.2434050467	-0.2335766814	-0.2277297063	-0.2188957345	-0.2174908923
14.200	-0.2810038186	-0.2679225944	-0.2558311646	-0.2431777936	-0.2333954630	-0.2275216993	-0.2183675350	-0.2170270464
14.400	-0.2808513961	-0.2677006213	-0.2557524466	-0.2429275998	-0.2332292036	-0.2273308621	-0.2178870986	-0.2165380678
14.600	-0.2807154280	-0.2675000873	-0.2556771299	-0.2426562612	-0.2330765855	-0.2271557956	-0.2174585088	-0.2160253199
15.000	-0.2804850540	-0.2671570703	-0.2555396010	-0.2420585245	-0.2328073867	-0.2268475065	-0.2167394877	-0.2149809209
15.200	-0.2803873779	-0.2670113634	-0.2554781611	-0.2417366433	-0.2326885795	-0.2267117027	-0.2164342992	-0.2144986216
15.600	-0.2802204309	-0.2667637448	-0.2553703740	-0.2410583702	-0.2324776126	-0.2264708881	-0.2159026979	-0.2138123352
15.800	-0.2801490277	-0.2666589561	-0.2553237531	-0.2407064242	-0.2323837120	-0.2263637778	-0.2156685286	-0.2136468671
16.000	-0.2800844797	-0.2665651011	-0.2552816550	-0.2403487230	-0.2322964905	-0.2262642695	-0.2154518120	-0.2135633332
16.200	-0.2800260353	-0.2664810077	-0.2552437592	-0.2399871832	-0.2322152392	-0.2261715142	-0.2152505346	-0.2135301430
16.400	-0.2799730397	-0.2664056156	-0.2552097400	-0.2396235721	-0.2321393064	-0.2260847333	-0.2150630303	-0.2135291486
16.600	-0.2799249218	-0.2663379712	-0.2551792422	-0.2392595090	-0.2320680833	-0.2260032154	-0.2148878890	-0.2135505196
16.800	-0.2798811755	-0.2662772212	-0.2551519378	-0.2388964620	-0.2320010028	-0.2259263067	-0.2147238845	-0.2135885426
17.000	-0.2798413605	-0.2662226032	-0.2551275015	-0.2385357671	-0.2319375282	-0.2258534044	-0.2145699446	-0.2136395411
17.200	-0.2798050846	-0.2661734389	-0.2551056324	-0.2381786289	-0.2318771489	-0.2257839509	-0.2144251257	-0.2137009078
17.400	-0.2797720006	-0.2661291289	-0.2550860529	-0.2378261439	-0.2318193748	-0.2257174290	-0.2142886083	-0.2137706258
17.600	-0.2797418004	-0.2660891378	-0.2550685073	-0.2374793066	-0.2317637297	-0.2256533588	-0.2141597490	-0.2138469819
17.800	-0.2797142098	-0.2660529958	-0.2550527679	-0.2371390343	-0.2317097481	-0.2255912871	-0.2140388112	-0.2139276853
18.000	-0.2796889821	-0.2660202837	-0.2550386277	-0.2368061689	-0.2316569610	-0.2255307876	-0.2140187030	-0.2139180625
18.200	-0.2796658961	-0.2659906342	-0.2550259029	-0.2364814999	-0.2316049036	-0.2254714581	-0.2141068119	-0.2138091733
18.400	-0.2796447531	-0.2659637202	-0.2550144300	-0.2361657805	-0.2315530980	-0.2254129169	-0.2141986305	-0.21377041489
18.600	-0.2796253747	-0.2659392504	-0.2550040655	-0.2358597253	-0.2315010561	-0.2253547963	-0.2142922556	-0.2136036622
18.800	-0.2796075988	-0.2659169728	-0.2549946837	-0.235640394	-0.2314482737	-0.2252967532	-0.2143868759	-0.2135074381

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3	19.000 -0.2795912791 -0.2658966580 -0.2549861701 -0.2352794068 -0.2313942266 -0.2252384506 -0.2144818408 -0.2134151515
4	19.200 -0.2795762836 -0.2658781055 -0.2549784243 -0.2350065077 -0.2313383751 -0.2251795699 -0.2145765951 -0.2133264896
5	19.600 -0.2795497969 -0.2658455959 -0.2549649107 -0.2344985728 -0.2312190436 -0.2250588760 -0.2147635815 -0.2131589160
6	19.800 -0.2795380983 -0.2658313411 -0.2549589989 -0.2342648089 -0.2311544705 -0.2249964997 -0.2148550103 -0.2130794981
7	20.000 -0.2795273059 -0.2658182453 -0.2549535680 -0.2340452791 -0.2310859449 -0.2249324216 -0.2149446047 -0.2130026904
8	20.200 -0.2795173385 -0.2658061985 -0.2549485681 -0.2338404532 -0.2310130455 -0.2248664043 -0.2150320742 -0.2129282891
9	20.400 -0.2795081239 -0.2657951024 -0.2549439545 -0.2336506641 -0.2309354689 -0.2247982336 -0.2151171662 -0.2128561096
10	20.600 -0.2794995933 -0.2657848651 -0.2549396862 -0.2334760692 -0.2308530656 -0.2247277116 -0.2151996515 -0.2127859801
11	20.800 -0.2794916860 -0.2657754090 -0.2549357287 -0.2333166102 -0.2307658887 -0.2246546748 -0.2152793345 -0.2127177397
12	21.000 -0.2794843478 -0.2657666628 -0.2549320518 -0.2331719854 -0.2306742055 -0.2245789841 -0.2153560419 -0.2126512450
13	21.200 -0.2794775271 -0.2657585631 -0.2549286284 -0.2330416553 -0.2305785034 -0.2245005351 -0.2154296203 -0.2125863586
14	25.000 -0.2794050066 -0.2656760441 -0.2548912577 -0.2320873983 -0.2289261096 -0.2226083743 -0.2161100469 -0.2115364388
15	25.200 -0.2794028835 -0.2656738457 -0.2548901368 -0.2320719758 -0.2288719015 -0.2225049044 -0.2161038165 -0.2114868546
16	25.400 -0.2794008534 -0.2656717663 -0.2548890646 -0.2320577674 -0.2288208959 -0.2224032115 -0.2160931113 -0.2114376780
17	26.200 -0.2793935561 -0.2656644983 -0.2548852161 -0.2320107779 -0.2286456287 -0.2220193104 -0.2160056355 -0.2112453351
18	26.600 -0.2793903356 -0.2656614060 -0.2548835230 -0.2319919460 -0.2285730409 -0.2218439434 -0.2159354335 -0.2111520935
19	26.800 -0.2793888190 -0.2656599770 -0.2548827276 -0.2319834532 -0.2285399976 -0.2217609427 -0.2158939140 -0.2111063151
20	27.000 -0.2793873596 -0.2656586185 -0.2548819631 -0.2319755042 -0.2285089432 -0.2216811925 -0.2158482239 -0.2110611451
21	27.400 -0.2793846023 -0.2656561007 -0.2548805220 -0.2319610549 -0.2284523187 -0.2215316805 -0.2157447807 -0.2109727779
22	29.600 -0.2793725120 -0.2656458997 -0.2548742696 -0.2319057331 -0.2282397958 -0.2209393464 -0.2149404414 -0.2105433426
23	29.800 -0.2793716214 -0.2656452080 -0.2548738141 -0.2319021312 -0.2282267063 -0.2209024870 -0.2148528291 -0.2105093719
24	30.000 -0.2793707588 -0.2656445463 -0.2656445294 -0.2318987035 -0.2282144075 -0.2208679614 -0.2147636786 -0.2104761947
25	30.600 -0.2793683333 -0.2656427305 -0.2548721386 -0.2318893652 -0.2281818289 -0.2207771499 -0.2144889353 -0.2103810225
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Table 6: (1-5)³Δ

3.000	-0.2265771921	-0.1814883704	-0.1711453168	-0.1582723096	-0.1466450010
3.400	-0.2162426037	-0.1694609508	-0.1614388453	-0.1520610815	-0.1419801317
3.600	-0.2165647345	-0.1692248663	-0.1610993872	-0.1538341589	-0.1449801985
3.800	-0.2187179075	-0.1706642435	-0.1633126908	-0.1565011160	-0.1496396036
4.000	-0.2219971919	-0.1729408067	-0.1677346215	-0.1596528566	-0.1549212849
4.200	-0.2259540121	-0.1758592600	-0.1731702070	-0.1645209481	-0.1594972975
4.600	-0.2347716284	-0.1874025517	-0.1802462476	-0.1777307179	-0.1698644813
4.800	-0.2392487668	-0.1940831507	-0.1856141636	-0.1818297326	-0.1765098617
5.000	-0.2435893445	-0.2005683913	-0.1923182772	-0.1846015287	-0.1826724998
5.200	-0.2476968966	-0.2066837206	-0.1987401672	-0.1898934420	-0.1860999092
5.400	-0.2515014504	-0.2123224236	-0.2046779168	-0.1956271527	-0.1915119582
5.600	-0.2549564024	-0.2174248706	-0.2100533118	-0.2008735624	-0.1969323919
5.800	-0.2580355001	-0.2219667015	-0.2148351287	-0.2055509481	-0.2017906313
6.000	-0.2607297333	-0.2259493635	-0.2190220694	-0.2096506888	-0.2060575891
6.200	-0.2630441544	-0.2293924101	-0.2226332478	-0.2131909927	-0.2097456553
6.400	-0.2649947273	-0.2323273511	-0.2257013277	-0.2162046652	-0.2128851180
6.600	-0.2666053127	-0.2347928683	-0.2282673005	-0.2187325589	-0.2155161993
6.800	-0.2679049269	-0.2368311367	-0.2303764793	-0.2208191909	-0.2176842503
7.000	-0.2689253906	-0.2384851416	-0.2320755260	-0.2225097310	-0.2194364795
7.200	-0.2696994621	-0.2397967940	-0.2334103336	-0.2238479957	-0.2208196424
7.400	-0.2702594400	-0.2408057474	-0.2344246469	-0.2248752483	-0.2218785461
7.600	-0.2706362189	-0.2415487446	-0.2351592452	-0.2256295884	-0.2226550891
7.800	-0.2708586648	-0.2420593387	-0.2356515489	-0.2261457268	-0.2231877411
8.200	-0.2709439464	-0.2425016593	-0.2360416507	-0.2265857707	-0.2236570577
8.400	-0.2708520415	-0.2424851673	-0.2359973207	-0.2265632515	-0.2236526323
8.600	-0.2706963081	-0.2423403595	-0.2358268478	-0.2264102337	-0.2235225562
8.800	-0.2704930272	-0.2420869621	-0.2355518403	-0.2261471571	-0.2232884270
9.000	-0.2702561237	-0.2417427483	-0.2351914256	-0.2257924097	-0.2229692702
9.200	-0.2699973247	-0.2413237843	-0.2347624839	-0.2253625680	-0.2225818510
9.400	-0.2697263263	-0.2408446309	-0.2342798566	-0.2248725794	-0.2221409397
9.600	-0.2694509813	-0.2403185012	-0.2337565263	-0.2243359164	-0.2216595333
9.800	-0.2691774884	-0.2397573611	-0.2332037703	-0.2237646884	-0.2211490169
10.000	-0.2689105954	-0.2391720080	-0.2326313023	-0.2231697170	-0.2206192945
10.200	-0.2686537954	-0.2385721111	-0.2320474002	-0.2225606048	-0.2200788895
10.400	-0.2684095241	-0.2379662516	-0.2314590468	-0.2219457879	-0.2195350404
10.600	-0.2681793475	-0.2373619603	-0.2308720701	-0.2213325991	-0.2189938015
10.800	-0.2679641293	-0.2367657607	-0.2302913072	-0.2207273354	-0.2184601406
11.000	-0.2677641917	-0.2361832135	-0.2297207509	-0.2201353218	-0.2179380517
11.200	-0.2675794407	-0.2356189670	-0.2291637074	-0.2195609834	-0.2174306573
11.400	-0.2674094818	-0.2350767974	-0.2286229107	-0.2190079008	-0.2169403010
11.600	-0.2672537094	-0.2345596537	-0.2281006373	-0.2184788702	-0.2164686474
11.800	-0.2671113715	-0.2340696967	-0.2275987621	-0.2179759450	-0.2160167565
12.000	-0.2669816364	-0.2336083595	-0.2271188169	-0.2175004961	-0.2155851812
12.200	-0.2668636254	-0.2331763948	-0.2266620015	-0.2170532620	-0.2151740500
12.400	-0.2667564499	-0.2327739661	-0.2262291990	-0.2166344230	-0.2147831717
12.600	-0.2666592325	-0.2324007085	-0.2258209701	-0.2162436635	-0.2144121206
12.800	-0.2665711271	-0.2320558427	-0.2254375644	-0.2158802708	-0.2140603324
13.000	-0.2664913251	-0.2317382437	-0.2250789181	-0.2155432011	-0.2137271683
13.200	-0.2664190681	-0.2314465431	-0.2247446762	-0.2152311830	-0.2134119733
13.400	-0.2663536464	-0.2311792011	-0.2244342168	-0.2149427776	-0.2131140986
13.600	-0.2662944073	-0.2309345856	-0.2241466916	-0.2146764657	-0.2128329231
13.800	-0.2662407508	-0.2307110195	-0.2238810647	-0.2144306884	-0.2125678465
14.000	-0.2661921252	-0.2305068363	-0.2236361540	-0.2142039100	-0.2123182803
14.200	-0.2661480328	-0.2303204157	-0.2234106900	-0.2139946347	-0.2120836379
14.400	-0.2661080196	-0.2301502054	-0.2232033423	-0.2138014420	-0.2118633185
14.600	-0.2660716777	-0.2299947431	-0.2230127731	-0.2136229941	-0.2116567034
15.000	-0.2660085682	-0.2297227116	-0.2226767063	-0.2133054551	-0.2112819695
15.200	-0.2659811717	-0.2296037297	-0.2225287028	-0.2131641652	-0.2111124801
15.600	-0.2659333560	-0.2293945756	-0.2222670088	-0.2129117400	-0.2108056755
15.800	-0.2659124849	-0.2293025917	-0.2221512629	-0.2127989485	-0.2106669016
16.000	-0.2658933743	-0.2292179446	-0.2220443504	-0.2126941300	-0.2105369072
16.200	-0.2658758532	-0.2291399392	-0.2219454516	-0.2125966438	-0.2104149801
16.400	-0.2658597684	-0.2290679545	-0.2218538230	-0.2125059126	-0.2103004261
16.600	-0.2658449824	-0.2290014338	-0.2217687959	-0.2124214158	-0.2101925790
16.800	-0.2658313730	-0.2289398801	-0.2216897675	-0.2123426838	-0.2100908089
17.000	-0.2658188299	-0.2288828450	-0.2216161978	-0.2122692931	-0.2099945174
17.200	-0.2658072544	-0.2288299304	-0.2215476023	-0.2122008572	-0.2099031509
17.400	-0.2657965583	-0.2287807781	-0.2214835494	-0.2121370255	-0.2098161922
17.600	-0.2657866624	-0.2287350687	-0.2214236498	-0.2120774788	-0.2097331697
17.800	-0.2657774957	-0.2286925123	-0.2213675584	-0.2120219213	-0.2096536546
18.000	-0.2657689932	-0.2286528497	-0.2213149618	-0.2119700816	-0.2095772562
18.200	-0.2657610986	-0.2286158458	-0.2212655824	-0.2119217088	-0.2095036270
18.400	-0.2657537590	-0.2285812909	-0.2212191700	-0.2118765683	-0.2094324560

1	
2	
3	18.600 -0.2657469272 -0.2285489919 -0.2211754969 -0.2118344419 -0.2093634645
4	18.800 -0.2657405619 -0.2285187783 -0.2211343629 -0.2117951259 -0.2092964136
5	19.000 -0.2657346241 -0.2284904895 -0.2210955820 -0.2117584287 -0.2092310863
6	19.200 -0.2657290791 -0.2284639842 -0.2210589887 -0.2117241703 -0.2091672961
7	19.600 -0.2657190458 -0.2284158107 -0.2209917752 -0.2116623042 -0.2090437060
8	19.800 -0.2657145040 -0.2283939162 -0.2209608936 -0.2116343898 -0.2089836405
9	20.000 -0.2657102449 -0.2283733438 -0.2209316699 -0.2116082966 -0.2089245804
10	20.200 -0.2657062477 -0.2283540042 -0.2209040012 -0.2115838928 -0.2088664352
11	20.400 -0.2657024944 -0.2283358141 -0.2208777922 -0.2115610584 -0.2088091247
12	20.600 -0.2656989650 -0.2283186928 -0.2208529504 -0.2115396749 -0.2087525763
13	20.800 -0.2656956437 -0.2283025715 -0.2208293970 -0.2115196352 -0.2086967294
14	21.000 -0.2656925167 -0.2282873827 -0.2208070566 -0.2115008402 -0.2086415289
15	21.200 -0.2656895691 -0.2282730669 -0.2207858570 -0.2114831945 -0.2085869259
16	21.400 -0.2656867894 -0.2282595662 -0.2207657343 -0.2114666140 -0.2085328743
17	21.600 -0.2656841644 -0.2282468283 -0.2207466249 -0.2114510142 -0.2084793307
18	21.800 -0.2656816857 -0.2282348069 -0.2207284773 -0.2114363227 -0.2084262621
19	22.000 -0.2656793417 -0.2282234550 -0.2207112359 -0.2114224689 -0.2083736282
20	22.200 -0.2656771241 -0.2282127317 -0.2206948504 -0.2114093899 -0.2083213933
21	22.400 -0.2656750242 -0.2282025981 -0.2206792747 -0.2113970259 -0.2082695264
22	22.600 -0.2656730356 -0.2281930191 -0.2206644685 -0.2113853225 -0.2082179954
23	22.800 -0.2656711492 -0.2281839585 -0.2206503858 -0.2113742291 -0.2081667653
24	23.000 -0.2656693610 -0.2281753898 -0.2206369939 -0.2113637010 -0.2081158100
25	23.200 -0.2656676622 -0.2281672788 -0.2206242533 -0.2113536935 -0.2080650970
26	23.400 -0.2656660488 -0.2281596003 -0.2206121306 -0.2113441696 -0.2080145949
27	23.600 -0.2656645156 -0.2281523297 -0.2206005949 -0.2113350925 -0.2079642754
28	23.800 -0.2656630578 -0.2281454431 -0.2205896156 -0.2113264313 -0.2079141107
29	24.000 -0.2656616708 -0.2281389169 -0.2205791649 -0.2113181538 -0.2078640698
30	24.200 -0.2656603495 -0.2281327316 -0.2205692135 -0.2113102325 -0.2078141247
31	24.400 -0.2656590902 -0.2281268656 -0.2205597362 -0.2113026427 -0.2077642487
32	24.600 -0.2656578913 -0.2281213042 -0.2205507129 -0.2112953622 -0.2077144155
33	24.800 -0.2656567467 -0.2281160266 -0.2205421165 -0.2112883679 -0.2076645965
34	25.000 -0.2656556553 -0.2281110193 -0.2205339280 -0.2112816425 -0.2076147660
35	25.200 -0.2656546138 -0.2281062661 -0.2205261255 -0.2112751671 -0.2075649007
36	25.400 -0.2656536184 -0.2281017519 -0.2205186897 -0.2112689259 -0.2075149743
37	25.600 -0.2656526675 -0.2280974651 -0.2205116039 -0.2112629039 -0.2074649653
38	25.800 -0.2656517577 -0.2280933916 -0.2205048478 -0.2112570866 -0.2074148479
39	26.000 -0.2656508883 -0.2280895201 -0.2204984070 -0.2112514644 -0.2073646026
40	26.200 -0.2656500561 -0.2280858399 -0.2204922653 -0.2112460226 -0.2073142079
41	26.400 -0.2656492241 -0.2280821597 -0.2204860831 -0.2112405806 -0.2072643532
42	26.600 -0.2656483920 -0.2280784885 -0.2204798903 -0.2112351385 -0.2072144985
43	26.800 -0.2656475600 -0.2280748179 -0.2204737075 -0.2112296964 -0.2071646438
44	27.000 -0.2656467280 -0.2280711473 -0.2204675147 -0.2112242543 -0.2071147891
45	27.200 -0.2656458960 -0.2280674767 -0.2204613219 -0.2112188122 -0.2070649344
46	27.400 -0.2656450640 -0.2280638061 -0.2204551291 -0.2112133701 -0.2070150797
47	27.600 -0.2656442320 -0.2280601355 -0.2204489363 -0.2112079280 -0.2069652250
48	27.800 -0.2656434000 -0.2280564649 -0.2204427435 -0.2112024859 -0.2069153703
49	28.000 -0.2656425680 -0.2280527943 -0.2204365507 -0.2111970438 -0.2068655156
50	28.200 -0.2656417360 -0.2280491237 -0.2204303579 -0.2111916017 -0.2068156609
51	28.400 -0.2656409040 -0.2280454531 -0.2204241651 -0.2111861596 -0.2067658062
52	28.600 -0.2656400720 -0.2280417825 -0.2204179723 -0.2111807175 -0.2067159515
53	28.800 -0.2656392400 -0.2280381119 -0.2204117795 -0.2111752754 -0.2066660968
54	29.000 -0.2656384080 -0.2280344413 -0.2204055867 -0.2111698333 -0.2066162421
55	29.200 -0.2656375760 -0.2280307707 -0.2204000000 -0.2111643912 -0.2065663874
56	29.400 -0.2656367440 -0.2280271001 -0.2203938132 -0.2111589491 -0.2065165327
57	29.600 -0.2656359120 -0.2280234295 -0.2203876264 -0.2111535070 -0.2064666780
58	29.800 -0.2656350800 -0.2280197589 -0.2203814396 -0.2111480649 -0.2064168233
59	30.000 -0.2656342480 -0.2280160883 -0.2203752528 -0.2111426228 -0.2063669686
60	30.200 -0.2656334160 -0.2280124177 -0.2203690660 -0.2111371807 -0.2063171139

The following tables display the transition dipole moments between the four lowest Σ^+ states with the lowest seven Π states of NaK, for singlet (Tables 1 to 4) and triplet (Tables 5 to 8) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 2.54158059 Debye. All states are identified with their number with increasing energy.

Table 1: (1) $^1\Sigma^+$ -(1-7) $^1\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	0.314890E+01	-0.272000E-01	-0.506000E-01	0.198400E+00	0.237000E+00	0.260000E-02	-0.460000E-01
3.200	0.314850E+01	0.900000E-03	0.170000E-02	0.192100E+00	0.270200E+00	0.600000E-02	-0.544000E-01
3.400	0.314580E+01	0.928000E-01	0.232000E-01	0.187000E+00	0.287600E+00	0.103000E-01	-0.553000E-01
3.800	0.312710E+01	0.351500E+00	0.267000E-01	0.187400E+00	0.283900E+00	0.193000E-01	-0.351000E-01
4.000	0.311120E+01	0.477600E+00	0.896000E-01	0.187800E+00	0.264600E+00	0.212000E-01	-0.158000E-01
4.200	0.309320E+01	0.587400E+00	0.167200E+00	0.186700E+00	0.234400E+00	0.187000E-01	0.790000E-02
4.400	0.307510E+01	0.678300E+00	0.250100E+00	0.186100E+00	0.195300E+00	0.960000E-02	0.340000E-01
4.600	0.305800E+01	0.751100E+00	0.331000E+00	0.189100E+00	0.150300E+00	-0.750000E-02	0.607000E-01
4.800	0.304270E+01	0.809300E+00	0.404700E+00	0.197100E+00	0.103400E+00	-0.325000E-01	0.858000E-01
5.200	0.301860E+01	0.898700E+00	0.521400E+00	0.224100E+00	0.153000E-01	-0.960000E-01	0.127800E+00
5.400	0.300930E+01	0.938000E+00	0.564000E+00	0.239500E+00	-0.231000E-01	-0.127500E+00	0.145300E+00
5.600	0.300140E+01	0.977800E+00	0.597400E+00	0.255000E+00	-0.573000E-01	-0.155300E+00	0.161700E+00
5.800	0.299420E+01	0.102040E+01	0.622700E+00	0.270700E+00	-0.876000E-01	-0.177900E+00	0.178100E+00
6.000	0.298710E+01	0.106750E+01	0.640900E+00	0.287900E+00	-0.114000E+00	-0.194500E+00	0.195000E+00
6.200	0.297940E+01	0.112020E+01	0.652400E+00	0.307800E+00	-0.137200E+00	-0.205200E+00	0.212800E+00
6.400	0.297040E+01	0.117920E+01	0.657400E+00	0.332200E+00	-0.157400E+00	-0.210200E+00	0.231200E+00
6.600	0.295930E+01	0.124500E+01	0.655200E+00	0.362500E+00	-0.175100E+00	-0.210100E+00	0.249700E+00
6.800	0.294540E+01	0.131780E+01	0.644700E+00	0.399900E+00	-0.190600E+00	-0.205800E+00	0.267400E+00
7.000	0.292800E+01	0.139730E+01	0.624300E+00	0.444900E+00	-0.204300E+00	-0.136500E+00	0.283300E+00
7.200	0.290670E+01	0.148290E+01	0.592000E+00	0.496300E+00	-0.216100E+00	-0.188600E+00	0.296100E+00
7.400	0.288120E+01	0.157370E+01	0.548300E+00	0.550800E+00	-0.226500E+00	-0.178700E+00	0.306100E+00
7.600	0.285150E+01	0.166820E+01	0.495100E+00	0.603100E+00	-0.235200E+00	-0.168900E+00	0.312400E+00
7.800	0.281790E+01	0.176500E+01	0.437500E+00	0.648200E+00	-0.242400E+00	-0.159500E+00	0.314700E+00
8.000	0.278120E+01	0.186220E+01	0.380900E+00	0.683300E+00	-0.247700E+00	-0.150900E+00	0.313100E+00
8.200	0.274230E+01	0.195790E+01	0.329400E+00	0.708200E+00	-0.251100E+00	-0.143400E+00	0.307700E+00
8.400	0.270230E+01	0.205030E+01	0.284500E+00	0.724200E+00	-0.252300E+00	-0.136500E+00	0.298400E+00
8.600	0.266260E+01	0.213810E+01	0.246500E+00	0.732900E+00	-0.251200E+00	-0.130600E+00	0.285500E+00
8.800	0.262420E+01	0.222030E+01	0.214800E+00	0.735600E+00	-0.247700E+00	-0.125300E+00	0.269600E+00
9.000	0.258820E+01	0.229620E+01	0.188700E+00	0.733300E+00	-0.242000E+00	-0.120500E+00	0.251200E+00
9.200	0.255540E+01	0.236550E+01	0.167600E+00	0.726800E+00	-0.234000E+00	-0.116200E+00	0.231100E+00
9.400	0.252610E+01	0.242810E+01	0.150700E+00	0.716400E+00	-0.224200E+00	-0.112100E+00	0.210100E+00
9.600	0.250070E+01	0.248430E+01	0.137600E+00	0.702500E+00	-0.212900E+00	-0.108200E+00	0.188900E+00
9.800	0.247920E+01	0.253430E+01	0.128000E+00	0.685600E+00	-0.200500E+00	-0.104200E+00	0.168300E+00
10.000	0.246150E+01	0.257840E+01	0.121200E+00	0.666000E+00	-0.187700E+00	-0.100200E+00	0.148700E+00
10.200	0.244740E+01	0.261710E+01	0.116900E+00	0.644100E+00	-0.174800E+00	-0.959000E-01	0.130800E+00
10.400	0.243670E+01	0.265070E+01	0.114700E+00	0.620600E+00	-0.162200E+00	-0.914000E-01	0.114700E+00
10.600	0.242900E+01	0.267980E+01	0.114100E+00	0.595700E+00	-0.150400E+00	-0.867000E-01	0.100500E+00
10.800	0.242400E+01	0.270460E+01	0.114600E+00	0.570100E+00	-0.139600E+00	-0.819000E-01	0.885000E-01
11.000	0.242150E+01	0.272550E+01	0.115900E+00	0.544300E+00	-0.129900E+00	-0.770000E-01	0.785000E-01
11.200	0.242120E+01	0.274290E+01	0.117600E+00	0.518500E+00	-0.121400E+00	-0.721000E-01	0.704000E-01
11.400	0.242280E+01	0.275710E+01	0.119500E+00	0.493300E+00	-0.114100E+00	-0.672000E-01	0.641000E-01
11.600	0.242600E+01	0.276850E+01	0.121200E+00	0.468900E+00	-0.107900E+00	-0.624000E-01	0.597000E-01
11.800	0.243070E+01	0.277730E+01	0.122600E+00	0.445600E+00	-0.102600E+00	-0.577000E-01	0.563000E-01
12.000	0.243660E+01	0.278390E+01	0.123600E+00	0.423400E+00	-0.981000E-01	-0.531000E-01	0.540000E-01
12.200	0.244350E+01	0.278850E+01	0.124200E+00	0.402600E+00	-0.943000E-01	-0.486000E-01	0.527000E-01
12.400	0.245140E+01	0.279130E+01	0.124300E+00	0.383200E+00	-0.909000E-01	-0.441000E-01	0.521000E-01
12.600	0.246000E+01	0.279260E+01	0.123900E+00	0.365300E+00	-0.879000E-01	-0.397000E-01	0.522000E-01
12.800	0.246910E+01	0.279260E+01	0.123000E+00	0.348800E+00	-0.851000E-01	-0.354000E-01	0.523000E-01
13.000	0.247880E+01	0.279140E+01	0.121800E+00	0.333700E+00	-0.822000E-01	-0.312000E-01	0.521000E-01
13.200	0.248880E+01	0.278930E+01	0.120200E+00	0.319900E+00	-0.794000E-01	-0.271000E-01	0.511000E-01
13.400	0.249910E+01	0.278640E+01	0.118200E+00	0.307500E+00	-0.764000E-01	-0.231000E-01	0.476000E-01
13.600	0.250960E+01	0.278270E+01	0.116000E+00	0.296300E+00	-0.733000E-01	-0.193000E-01	0.390000E-01
13.800	0.252020E+01	0.277850E+01	0.113600E+00	0.286200E+00	-0.701000E-01	-0.157000E-01	0.266000E-01
14.000	0.253090E+01	0.277380E+01	0.110900E+00	0.277100E+00	-0.667000E-01	-0.123000E-01	0.169000E-01
14.200	0.254150E+01	0.276880E+01	0.108200E+00	0.269000E+00	-0.632000E-01	-0.920000E-02	0.106000E-01
14.400	0.255210E+01	0.276340E+01	0.105300E+00	0.261700E+00	-0.596000E-01	-0.640000E-02	0.660000E-02
14.600	0.256260E+01	0.275780E+01	0.102300E+00	0.255300E+00	-0.560000E-01	-0.400000E-02	0.370000E-02
14.800	0.257290E+01	0.275200E+01	0.993000E-01	0.249500E+00	-0.523000E-01	-0.190000E-02	0.170000E-02
15.000	0.258310E+01	0.274610E+01	0.962000E-01	0.244300E+00	-0.486000E-01	-0.100000E-03	-0.100000E-03
15.200	0.259300E+01	0.274020E+01	0.932000E-01	0.239700E+00	-0.449000E-01	-0.130000E-02	-0.100000E-02
15.400	0.260270E+01	0.273410E+01	0.901000E-01	0.235500E+00	-0.413000E-01	-0.230000E-02	-0.180000E-02
15.600	0.261230E+01	0.272810E+01	0.871000E-01	0.231800E+00	-0.378000E-01	-0.300000E-02	-0.230000E-02
15.800	0.262150E+01	0.272220E+01	0.841000E-01	0.228500E+00	-0.344000E-01	-0.330000E-02	-0.250000E-02
16.000	0.263050E+01	0.271620E+01	0.812000E-01	0.225500E+00	-0.312100E-01	-0.340000E-02	-0.250000E-02
16.200	0.263930E+01	0.271040E+01	0.783000E-01	0.222900E+00	-0.281000E-01	-0.330000E-02	-0.210000E-02
16.400	0.264770E+01	0.270460E+01	0.755000E-01	0.220500E+00	-0.252000E-01	-0.300000E-02	-0.150000E-02
16.600	0.265590E+01	0.269890E+01	0.728000E-01	0.218300E+00	-0.226000E-01	-0.270000E-02	-0.800000E-03
16.800	0.266390E+01	0.269340E+01	0.701000E-01	0.216400E+00	-0.202000E-01	-0.230000E-02	0.200000E-03

1								
2								
3	17.000	0.267160E+01	0.268790E+01	0.675000E-01	0.214700E+00	-0.179000E-01	-0.180000E-02	0.140000E-02
4	17.200	0.267900E+01	0.268260E+01	0.650000E-01	0.213100E+00	-0.158000E-01	-0.130000E-02	0.280000E-02
5	17.400	0.268620E+01	0.267740E+01	0.626000E-01	0.211700E+00	-0.140000E-01	-0.800000E-03	0.420000E-02
6	17.600	0.269310E+01	0.267240E+01	0.602000E-01	0.210400E+00	-0.123000E-01	-0.400000E-03	0.560000E-02
7	17.800	0.269970E+01	0.266750E+01	0.580000E-01	0.209200E+00	-0.107000E-01	0.100000E-03	0.710000E-02
8	18.000	0.270620E+01	0.266270E+01	0.558000E-01	0.208200E+00	-0.093000E-02	0.500000E-03	0.860000E-02
9	18.200	0.271240E+01	0.265810E+01	0.537000E-01	0.207200E+00	-0.800000E-02	0.800000E-03	0.100000E-01
10	18.400	0.271830E+01	0.265360E+01	0.517000E-01	0.206400E+00	-0.690000E-02	0.110000E-02	0.114000E-01
11	18.600	0.272410E+01	0.264930E+01	0.498000E-01	0.205600E+00	-0.590000E-02	0.140000E-02	0.128000E-01
12	18.800	0.272960E+01	0.264500E+01	0.479000E-01	0.204900E+00	-0.500000E-02	0.160000E-02	0.141000E-01
13	19.000	0.273500E+01	0.264090E+01	0.461000E-01	0.204200E+00	-0.410000E-02	0.190000E-02	0.154000E-01
14	19.200	0.274010E+01	0.263700E+01	0.444000E-01	0.203600E+00	-0.340000E-02	0.210000E-02	0.166000E-01
15	19.400	0.274500E+01	0.263320E+01	0.428000E-01	0.203100E+00	-0.270000E-02	0.220000E-02	0.178000E-01
16	19.600	0.274980E+01	0.262950E+01	0.412000E-01	0.202600E+00	-0.220000E-02	0.230000E-02	0.189000E-01
17	19.800	0.275440E+01	0.262590E+01	0.397000E-01	0.202100E+00	-0.170000E-02	0.240000E-02	0.201000E-01
18	20.000	0.275880E+01	0.262240E+01	0.382000E-01	0.201700E+00	-0.120000E-02	0.250000E-02	0.214000E-01
19	20.200	0.276310E+01	0.261900E+01	0.368000E-01	0.201300E+00	-0.800000E-03	0.250000E-02	0.228000E-01
20	20.400	0.276720E+01	0.261580E+01	0.355000E-01	0.200900E+00	-0.400000E-03	0.260000E-02	0.244000E-01
21	20.600	0.277110E+01	0.261270E+01	0.342000E-01	0.200600E+00	0.100000E-03	0.260000E-02	0.262000E-01
22	20.800	0.277500E+01	0.260960E+01	0.330000E-01	0.200300E+00	0.200000E-03	0.260000E-02	0.285000E-01
23	21.200	0.278220E+01	0.260390E+01	0.307000E-01	0.199800E+00	0.600000E-03	0.260000E-02	0.348000E-01
24	21.400	0.278560E+01	0.260110E+01	0.297000E-01	0.199500E+00	0.800000E-03	0.260000E-02	0.391000E-01
25	21.600	0.278890E+01	0.259850E+01	0.287000E-01	0.199300E+00	0.100000E-02	0.250000E-02	0.440000E-01
26	22.000	0.279520E+01	0.259340E+01	0.267000E-01	0.198900E+00	0.120000E-02	0.250000E-02	0.538000E-01
27	22.200	0.279810E+01	0.259100E+01	0.258000E-01	0.198700E+00	0.130000E-02	0.240000E-02	0.573000E-01
28	22.400	0.280100E+01	0.258870E+01	0.250000E-01	0.198600E+00	0.140000E-02	0.240000E-02	0.597000E-01
29	22.600	0.281620E+01	0.257610E+01	0.204000E-01	0.197700E+00	0.170000E-02	0.210000E-02	0.639000E-01
30	24.000	0.282070E+01	0.257250E+01	0.192000E-01	0.197500E+00	0.170000E-02	0.200000E-02	0.643000E-01
31	24.200	0.282280E+01	0.257070E+01	0.185000E-01	0.197400E+00	0.170000E-02	0.190000E-02	0.645000E-01
32	24.400	0.282480E+01	0.256890E+01	0.180000E-01	0.197300E+00	0.170000E-02	0.190000E-02	0.646000E-01
33	24.800	0.282870E+01	0.256580E+01	0.169000E-01	0.197200E+00	0.170000E-02	0.180000E-02	0.649000E-01
34	25.000	0.283060E+01	0.256390E+01	0.163000E-01	0.197100E+00	0.170000E-02	0.180000E-02	0.650000E-01
35	25.400	0.283410E+01	0.256120E+01	0.154000E-01	0.196900E+00	0.170000E-02	0.170000E-02	0.652000E-01
36	25.600	0.283580E+01	0.255940E+01	0.149000E-01	0.196900E+00	0.170000E-02	0.170000E-02	0.653000E-01
37	25.800	0.283740E+01	0.255820E+01	0.145000E-01	0.196800E+00	0.170000E-02	0.170000E-02	0.654000E-01
38	26.000	0.283900E+01	0.255720E+01	0.140000E-01	0.196700E+00	0.170000E-02	0.160000E-02	0.654000E-01
39	26.400	0.284200E+01	0.255460E+01	0.132000E-01	0.196600E+00	0.160000E-02	0.160000E-02	0.656000E-01
40	26.600	0.284350E+01	0.255350E+01	0.128000E-01	0.196500E+00	0.160000E-02	0.150000E-02	0.657000E-01
41	26.800	0.284490E+01	0.255230E+01	0.124000E-01	0.196500E+00	0.160000E-02	0.150000E-02	0.658000E-01
42	27.000	0.284630E+01	0.255110E+01	0.121000E-01	0.196400E+00	0.160000E-02	0.150000E-02	0.658000E-01
43	27.200	0.284760E+01	0.255000E+01	0.117000E-01	0.196400E+00	0.160000E-02	0.150000E-02	0.659000E-01
44	27.400	0.284890E+01	0.254890E+01	0.114000E-01	0.196300E+00	0.150000E-02	0.150000E-02	0.660000E-01
45	27.600	0.285010E+01	0.254790E+01	0.111000E-01	0.196300E+00	0.150000E-02	0.140000E-02	0.660000E-01
46	28.000	0.285250E+01	0.254590E+01	0.105000E-01	0.196200E+00	0.150000E-02	0.140000E-02	0.662000E-01
47	28.200	0.285370E+01	0.254480E+01	0.102000E-01	0.196100E+00	0.150000E-02	0.140000E-02	0.662000E-01
48	28.600	0.285590E+01	0.254300E+01	0.960000E-02	0.196100E+00	0.140000E-02	0.140000E-02	0.664000E-01
49	28.800	0.285690E+01	0.254210E+01	0.930000E-02	0.196000E+00	0.140000E-02	0.130000E-02	0.664000E-01
50	29.400	0.285990E+01	0.253950E+01	0.860000E-02	0.195900E+00	0.140000E-02	0.130000E-02	0.666000E-01
51	30.200	0.286350E+01	0.253640E+01	0.770000E-02	0.195800E+00	0.130000E-02	0.130000E-02	0.669000E-01
52	30.400	0.286360E+01	0.253490E+01	0.750000E-02	0.195700E+00	0.120000E-02	0.130000E-02	0.669000E-01
53	31.400	0.286820E+01	0.253230E+01	0.660000E-02	0.195600E+00	0.120000E-02	0.130000E-02	0.672000E-01
54	31.600	0.286910E+01	0.253170E+01	0.640000E-02	0.195600E+00	0.110000E-02	0.130000E-02	0.673000E-01
55	31.800	0.286970E+01	0.253110E+01	0.630000E-02	0.195600E+00	0.110000E-02	0.130000E-02	0.673000E-01
56								
57								
58								
59								
60								

Only

Table 2: $(2)^1\Sigma^+ - (1-7)^1\Pi$ transitions

R	2-1	2-2	2-3	2-4	2-5	2-6	2-7
3.000	0.390200E+00	-0.728700E+00	0.537500E+00	-0.171840E+01	-0.175770E+01	-0.500400E+00	0.488700E+00
3.200	0.423500E+00	-0.760800E+00	0.745800E+00	-0.192860E+01	-0.149600E+01	-0.506100E+00	0.563800E+00
3.400	0.461200E+00	-0.792600E+00	0.847500E+00	-0.208420E+01	-0.127030E+01	-0.518000E+00	0.631300E+00
3.800	0.547500E+00	-0.892000E+00	0.837500E+00	-0.232150E+01	-0.859200E+00	-0.568500E+00	0.767700E+00
4.000	0.594100E+00	-0.966700E+00	0.763800E+00	-0.239550E+01	-0.663000E+00	-0.609100E+00	0.845300E+00
4.200	0.641200E+00	-0.105540E+01	0.675300E+00	-0.242490E+01	-0.482100E+00	-0.655200E+00	0.930900E+00
4.400	0.686800E+00	-0.115210E+01	0.595100E+00	-0.240550E+01	-0.332600E+00	-0.698800E+00	0.102380E+01
4.600	0.729700E+00	-0.124970E+01	0.537900E+00	-0.234430E+01	-0.227800E+00	-0.731200E+00	0.111650E+01
4.800	0.768900E+00	-0.134140E+01	0.507000E+00	-0.225590E+01	-0.172600E+00	-0.747300E+00	0.120220E+01
5.200	0.836200E+00	-0.148840E+01	0.509400E+00	-0.205790E+01	-0.177000E+00	-0.745600E+00	0.131800E+01
5.400	0.865200E+00	-0.153880E+01	0.532200E+00	-0.196920E+01	-0.211200E+00	-0.744700E+00	0.134110E+01
5.600	0.892100E+00	-0.157300E+01	0.565000E+00	-0.189420E+01	-0.253500E+00	-0.753000E+00	0.134450E+01
5.800	0.917300E+00	-0.159190E+01	0.606600E+00	-0.183440E+01	-0.297800E+00	-0.773500E+00	0.133240E+01
6.000	0.941300E+00	-0.159650E+01	0.657600E+00	-0.178910E+01	-0.341100E+00	-0.806300E+00	0.130860E+01
6.200	0.964300E+00	-0.158790E+01	0.719700E+00	-0.175550E+01	-0.381900E+00	-0.849900E+00	0.127490E+01
6.400	0.986200E+00	-0.156750E+01	0.795700E+00	-0.173000E+01	-0.420300E+00	-0.901300E+00	0.123350E+01
6.600	0.100700E+01	-0.153630E+01	0.888700E+00	-0.170720E+01	-0.456500E+00	-0.956600E+00	0.118630E+01
6.800	0.102630E+01	-0.149540E+01	0.100210E+01	-0.168020E+01	-0.491300E+00	-0.101140E+01	0.113560E+01
7.000	0.104360E+01	-0.144610E+01	0.113820E+01	-0.164120E+01	-0.525300E+00	-0.106150E+01	0.108460E+01
7.200	0.105820E+01	-0.138890E+01	0.129490E+01	-0.158200E+01	-0.558500E+00	-0.110110E+01	0.103300E+01
7.400	0.106910E+01	-0.132630E+01	0.146700E+01	-0.149920E+01	-0.592300E+00	-0.113500E+01	0.990700E+00
7.600	0.107560E+01	-0.125900E+01	0.164130E+01	-0.139520E+01	-0.626600E+00	-0.115990E+01	0.955300E+00
7.800	0.107680E+01	-0.118860E+01	0.180440E+01	-0.128030E+01	-0.661400E+00	-0.117630E+01	0.927100E+00
8.000	0.107220E+01	-0.111670E+01	0.194780E+01	-0.116820E+01	-0.697200E+00	-0.118540E+01	0.906000E+00
8.200	0.106110E+01	-0.104500E+01	0.206990E+01	-0.106940E+01	-0.733900E+00	-0.118950E+01	0.891800E+00
8.400	0.104360E+01	-0.973900E+00	0.217210E+01	-0.989200E+00	-0.771200E+00	-0.118710E+01	0.881100E+00
8.600	0.101980E+01	-0.905300E+00	0.225860E+01	-0.928000E+00	-0.809400E+00	-0.118230E+01	0.875000E+00
8.800	0.990200E+00	-0.839500E+00	0.233190E+01	-0.885100E+00	-0.848000E+00	-0.117230E+01	0.870200E+00
9.000	0.955300E+00	-0.777000E+00	0.239470E+01	-0.857800E+00	-0.886800E+00	-0.115870E+01	0.865900E+00
9.200	0.916100E+00	-0.718200E+00	0.244860E+01	-0.843900E+00	-0.925700E+00	-0.114350E+01	0.863000E+00
9.400	0.873400E+00	-0.662900E+00	0.249490E+01	-0.841000E+00	-0.964300E+00	-0.112580E+01	0.859300E+00
9.600	0.828100E+00	-0.610900E+00	0.253440E+01	-0.847100E+00	-0.100250E+01	-0.110660E+01	0.855100E+00
9.800	0.781200E+00	-0.562000E+00	0.256770E+01	-0.860300E+00	-0.104030E+01	-0.108750E+01	0.851000E+00
10.000	0.733300E+00	-0.516000E+00	0.259550E+01	-0.878600E+00	-0.107770E+01	-0.106860E+01	0.845900E+00
10.200	0.685200E+00	-0.472500E+00	0.261820E+01	-0.900400E+00	-0.111460E+01	-0.105050E+01	0.839500E+00
10.400	0.637600E+00	-0.431300E+00	0.263630E+01	-0.924000E+00	-0.115120E+01	-0.103380E+01	0.831400E+00
10.600	0.590900E+00	-0.392300E+00	0.265050E+01	-0.947800E+00	-0.118780E+01	-0.101940E+01	0.821800E+00
10.800	0.545600E+00	-0.355400E+00	0.266120E+01	-0.970300E+00	-0.122440E+01	-0.100700E+01	0.809300E+00
11.000	0.502000E+00	-0.320500E+00	0.266910E+01	-0.992000E+00	-0.126100E+01	-0.997100E+00	0.793700E+00
11.200	0.460400E+00	-0.287600E+00	0.267470E+01	-0.100630E+01	-0.129790E+01	-0.989600E+00	0.775000E+00
11.400	0.420900E+00	-0.256700E+00	0.267880E+01	-0.101750E+01	-0.133470E+01	-0.984500E+00	0.752800E+00
11.600	0.383600E+00	-0.227700E+00	0.268190E+01	-0.102300E+01	-0.137110E+01	-0.981400E+00	0.725900E+00
11.800	0.348600E+00	-0.200700E+00	0.268440E+01	-0.102240E+01	-0.140700E+01	-0.980500E+00	0.696900E+00
12.000	0.316000E+00	-0.175600E+00	0.268700E+01	-0.101540E+01	-0.144170E+01	-0.981200E+00	0.664700E+00
12.200	0.285700E+00	-0.152300E+00	0.268990E+01	-0.100200E+01	-0.147430E+01	-0.983300E+00	0.629300E+00
12.400	0.257600E+00	-0.130700E+00	0.269360E+01	-0.982600E+00	-0.150410E+01	-0.986700E+00	0.590500E+00
12.600	0.231800E+00	-0.110800E+00	0.269820E+01	-0.957400E+00	-0.152960E+01	-0.990700E+00	0.546600E+00
12.800	0.208100E+00	-0.926000E-01	0.270390E+01	-0.927500E+00	-0.155080E+01	-0.996000E+00	0.499000E+00
13.000	0.186500E+00	-0.758000E-01	0.271080E+01	-0.893500E+00	-0.156620E+01	-0.100220E+01	0.442100E+00
13.200	0.166800E+00	-0.605000E-01	0.271900E+01	-0.856100E+00	-0.157500E+01	-0.100910E+01	0.365300E+00
13.400	0.149000E+00	-0.466000E-01	0.272840E+01	-0.816300E+00	-0.157640E+01	-0.101650E+01	0.244600E+00
13.600	0.133000E+00	-0.339000E-01	0.273890E+01	-0.774700E+00	-0.156990E+01	-0.102430E+01	-0.505000E-01
13.800	0.118600E+00	-0.225000E-01	0.275030E+01	-0.732000E+00	-0.155510E+01	-0.103190E+01	-0.170300E+00
14.000	0.105800E+00	-0.121000E-01	0.276260E+01	-0.688700E+00	-0.153140E+01	-0.103860E+01	-0.338800E+00
14.200	0.944000E-01	-0.290000E-02	0.277540E+01	-0.645200E+00	-0.149880E+01	-0.104360E+01	-0.462000E+00
14.400	0.844000E-01	0.540000E-02	0.278870E+01	-0.602000E+00	-0.145760E+01	-0.104570E+01	-0.563600E+00
14.600	0.755000E-01	0.127000E-01	0.280210E+01	-0.559400E+00	-0.140800E+01	-0.104360E+01	-0.655500E+00
14.800	0.679000E-01	0.191000E-01	0.281540E+01	-0.517600E+00	-0.135070E+01	-0.103600E+01	-0.742800E+00
15.000	0.612000E-01	0.247000E-01	0.282860E+01	-0.477000E+00	-0.128660E+01	-0.102130E+01	-0.827200E+00
15.200	0.554000E-01	0.295000E-01	0.284130E+01	-0.437600E+00	-0.121690E+01	-0.997500E+00	-0.908200E+00
15.400	0.504000E-01	0.336000E-01	0.285350E+01	-0.399900E+00	-0.114320E+01	-0.966100E+00	-0.985600E+00
15.600	0.462000E-01	0.370000E-01	0.286510E+01	-0.363700E+00	-0.106680E+01	-0.925800E+00	-0.105790E+01
15.800	0.425000E-01	0.398000E-01	0.287590E+01	-0.329300E+00	-0.989200E+00	-0.877200E+00	-0.112310E+01
16.000	0.394000E-01	0.421000E-01	0.288600E+01	-0.296800E+00	-0.911900E+00	-0.821600E+00	-0.118010E+01
16.200	0.367000E-01	0.438000E-01	0.289530E+01	-0.266200E+00	-0.836000E+00	-0.761000E+00	-0.122770E+01
16.400	0.345000E-01	0.452000E-01	0.290380E+01	-0.237600E+00	-0.762800E+00	-0.697200E+00	-0.126530E+01
16.600	0.325000E-01	0.461000E-01	0.291160E+01	-0.211100E+00	-0.693300E+00	-0.633600E+00	-0.129460E+01
16.800	0.308000E-01	0.467000E-01	0.291880E+01	-0.186500E+00	-0.627100E+00	-0.569100E+00	-0.131240E+01
17.000	0.293000E-01	0.470000E-01	0.292530E+01	-0.163800E+00	-0.564900E+00	-0.506800E+00	-0.132110E+01
17.200	0.280000E-01	0.470000E-01	0.293130E+01	-0.142900E+00	-0.507000E+00	-0.447600E+00	-0.132180E+01
17.400	0.269000E-01	0.469000E-01	0.293680E+01	-0.123900E+00	-0.453400E+00	-0.392100E+00	-0.131560E+01
17.600	0.258000E-01	0.465000E-01	0.294190E+01	-0.106600E+00	-0.403900E+00	-0.340700E+00	-0.130370E+01
17.800	0.249000E-01	0.460000E-01	0.294660E+01	-0.909000E-01	-0.358500E+00	-0.293700E+00	-0.128720E+01
18.000	0.240000E-01	0.453000E-01	0.295100E+01	-0.768000E-01	-0.316900E+00	-0.250800E+00	-0.126710E+01
18.200	0.231000E-01	0.446000E-01	0.295510E+01	-0.640000E-01	-0.278900E+00	-0.212000E+00	-0.124420E+01
18.400	0.224000E-01	0.437000E-01	0.295900E+01	-0.526000E-01	-0.244200E+00	-0.177100E+00	-0.121950E+01
18.600	0.216000E-01	0.428000E-01	0.296260E+01	-0.423000E-01	-0.212700E+00	-0.145600E+00	-0.119350E+01

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3	18.800	0.209000E-01	0.418000E-01	0.296620E+01	-0.332000E-01	-0.184100E+00	-0.117500E+00	-0.116680E+01
4	19.000	0.202000E-01	0.408000E-01	0.296960E+01	-0.251000E-01	-0.158000E+00	-0.920000E-01	-0.113790E+01
5	19.200	0.196000E-01	0.398000E-01	0.297280E+01	-0.179000E-01	-0.134500E+00	-0.695000E-01	-0.111100E+01
6	19.400	0.189000E-01	0.388000E-01	0.297600E+01	-0.116000E-01	-0.113300E+00	-0.495000E-01	-0.108420E+01
7	19.600	0.183000E-01	0.377000E-01	0.297900E+01	-0.600000E-02	-0.941000E-01	-0.317000E-01	-0.105770E+01
8	19.800	0.177000E-01	0.367000E-01	0.298200E+01	-0.120000E-02	-0.767000E-01	-0.159000E-01	-0.103090E+01
9	20.000	0.171000E-01	0.357000E-01	0.298490E+01	0.310000E-02	-0.611000E-01	-0.180000E-02	-0.100470E+01
10	20.200	0.165000E-01	0.346000E-01	0.298780E+01	0.680000E-02	-0.471000E-01	0.106000E-01	-0.978400E+00
11	20.400	0.159000E-01	0.336000E-01	0.299060E+01	0.100000E-01	-0.345000E-01	0.217000E-01	-0.951500E+00
12	20.600	0.154000E-01	0.326000E-01	0.299330E+01	0.127000E-01	-0.231000E-01	0.316000E-01	-0.923400E+00
13	20.800	0.148000E-01	0.316000E-01	0.299590E+01	0.150000E-01	-0.130000E-01	0.403000E-01	-0.893000E+00
14	21.200	0.137000E-01	0.297000E-01	0.300100E+01	0.186000E-01	-0.430000E-02	0.548000E-01	-0.817600E+00
15	21.400	0.132000E-01	0.288000E-01	0.300350E+01	0.200000E-01	0.115000E-01	0.607000E-01	-0.766000E+00
16	21.600	0.127000E-01	0.279000E-01	0.300590E+01	0.211000E-01	0.180000E-01	0.660000E-01	-0.699800E+00
17	22.000	0.117000E-01	0.262000E-01	0.301060E+01	0.227000E-01	0.289000E-01	0.745000E-01	-0.527400E+00
18	22.200	0.112000E-01	0.253000E-01	0.301280E+01	0.233000E-01	0.334000E-01	0.779000E-01	-0.439400E+00
19	22.400	0.108000E-01	0.245000E-01	0.301500E+01	0.237000E-01	0.373000E-01	0.809000E-01	-0.363400E+00
20	23.600	0.820000E-02	0.203000E-01	0.302670E+01	0.238000E-01	0.526000E-01	0.907000E-01	-0.142300E+00
21	24.000	0.750000E-02	0.191000E-01	0.303020E+01	0.232000E-01	0.553000E-01	0.919000E-01	-0.112400E+00
22	24.200	0.710000E-02	0.185000E-01	0.303180E+01	0.229000E-01	0.563000E-01	0.921000E-01	-0.100800E+00
23	24.400	0.680000E-02	0.179000E-01	0.303340E+01	0.226000E-01	0.572000E-01	0.923000E-01	-0.909000E-01
24	24.800	0.610000E-02	0.168000E-01	0.303640E+01	0.218000E-01	0.585000E-01	0.920000E-01	-0.746000E-01
25	25.000	0.580000E-02	0.163000E-01	0.303780E+01	0.214000E-01	0.590000E-01	0.917000E-01	-0.679000E-01
26	25.400	0.520000E-02	0.154000E-01	0.304050E+01	0.205000E-01	0.596000E-01	0.908000E-01	-0.565000E-01
27	25.600	0.490000E-02	0.149000E-01	0.304180E+01	0.201000E-01	0.597000E-01	0.901000E-01	-0.517000E-01
28	25.800	0.470000E-02	0.145000E-01	0.304300E+01	0.196000E-01	0.597000E-01	0.893000E-01	-0.474000E-01
29	26.000	0.440000E-02	0.140000E-01	0.304420E+01	0.191000E-01	0.597000E-01	0.885000E-01	-0.434000E-01
30	26.400	0.400000E-02	0.132000E-01	0.304650E+01	0.182000E-01	0.596000E-01	0.866000E-01	-0.365000E-01
31	26.600	0.370000E-02	0.128000E-01	0.304760E+01	0.178000E-01	0.594000E-01	0.856000E-01	-0.334000E-01
32	26.800	0.350000E-02	0.125000E-01	0.304870E+01	0.173000E-01	0.592000E-01	0.845000E-01	-0.306000E-01
33	27.000	0.330000E-02	0.121000E-01	0.304970E+01	0.168000E-01	0.590000E-01	0.833000E-01	-0.279000E-01
34	27.200	0.310000E-02	0.118000E-01	0.305070E+01	0.164000E-01	0.587000E-01	0.820000E-01	-0.254000E-01
35	27.400	0.300000E-02	0.114000E-01	0.305160E+01	0.159000E-01	0.585000E-01	0.809000E-01	-0.231000E-01
36	27.600	0.280000E-02	0.111000E-01	0.305260E+01	0.155000E-01	0.582000E-01	0.796000E-01	-0.209000E-01
37	28.000	0.250000E-02	0.105000E-01	0.305430E+01	0.147000E-01	0.576000E-01	0.770000E-01	-0.170000E-01
38	28.200	0.230000E-02	0.102000E-01	0.305520E+01	0.142000E-01	0.573000E-01	0.757000E-01	-0.151000E-01
39	28.600	0.200000E-02	0.970000E-02	0.305680E+01	0.134000E-01	0.567000E-01	0.729000E-01	-0.118000E-01
40	28.800	0.190000E-02	0.940000E-02	0.305760E+01	0.130000E-01	0.564000E-01	0.715000E-01	-0.102000E-01
41	29.400	0.150000E-02	0.870000E-02	0.305990E+01	0.119000E-01	0.556000E-01	0.672000E-01	-0.600000E-02
42	30.200	0.110000E-02	0.780000E-02	0.306260E+01	0.105000E-01	0.545000E-01	0.613000E-01	-0.130000E-02
43	30.400	0.110000E-02	0.760000E-02	0.306330E+01	0.102000E-01	0.542000E-01	0.598000E-01	0.200000E-03
44	31.400	0.700000E-03	0.670000E-02	0.306630E+01	0.870000E-02	0.531000E-01	0.524000E-01	0.420000E-02
45	31.600	0.600000E-03	0.650000E-02	0.306680E+01	0.840000E-02	0.529000E-01	0.509000E-01	0.500000E-02
46	31.800	0.500000E-03	0.630000E-02	0.306740E+01	0.820000E-02	0.527000E-01	0.495000E-01	0.570000E-02
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Table 3: $(3)^1\Sigma^+ - (1-7)^1\Pi$ transitions

R	3-1	3-2	3-3	3-4	3-5	3-6	3-7
3.000	0.130300E+00	0.109900E+00	-0.328500E+00	0.685000E+00	-0.659600E+00	-0.125920E+01	0.541600E+00
3.200	0.992000E-01	0.118500E+00	-0.285600E+00	0.522000E+00	-0.732300E+00	-0.132160E+01	0.523900E+00
3.400	0.730000E-01	0.128600E+00	-0.245600E+00	0.422800E+00	-0.766600E+00	-0.139490E+01	0.469100E+00
3.800	0.329000E-01	0.155100E+00	-0.242600E+00	0.346000E+00	-0.815200E+00	-0.153080E+01	0.299000E+00
4.000	0.140000E-01	0.168800E+00	-0.281600E+00	0.355400E+00	-0.857700E+00	-0.156900E+01	0.209300E+00
4.200	-0.810000E-02	0.181100E+00	-0.341000E+00	0.389800E+00	-0.924900E+00	-0.157490E+01	0.124200E+00
4.400	-0.348000E-01	0.191700E+00	-0.413200E+00	0.441900E+00	-0.101800E+01	-0.154340E+01	0.469000E-01
4.600	-0.645000E-01	0.201000E+00	-0.489300E+00	0.504300E+00	-0.112920E+01	-0.147460E+01	-0.205000E-01
4.800	-0.934000E-01	0.208900E+00	-0.560400E+00	0.571500E+00	-0.124380E+01	-0.137810E+01	-0.727000E-01
5.200	-0.133600E+00	0.219600E+00	-0.661500E+00	0.712400E+00	-0.143090E+01	-0.115970E+01	-0.121600E+00
5.400	-0.139600E+00	0.221700E+00	-0.686700E+00	0.783900E+00	-0.149240E+01	0.106280E+01	-0.121300E+00
5.600	-0.135200E+00	0.221500E+00	-0.695500E+00	0.853100E+00	-0.153360E+01	0.984200E+00	-0.109400E+00
5.800	-0.120800E+00	0.219100E+00	-0.690800E+00	0.916600E+00	-0.155850E+01	0.926100E+00	-0.896000E-01
6.000	-0.975000E-01	0.214400E+00	-0.676100E+00	0.971500E+00	-0.157170E+01	0.887200E+00	-0.636000E-01
6.200	-0.667000E-01	0.207600E+00	-0.655200E+00	0.101580E+01	-0.157680E+01	0.866300E+00	-0.307000E-01
6.400	-0.301000E-01	0.198700E+00	-0.632200E+00	0.104840E+01	-0.157690E+01	0.859900E+00	0.940000E-02
6.600	0.110000E-01	0.187600E+00	-0.611100E+00	0.106910E+01	-0.157380E+01	0.864500E+00	0.570000E-01
6.800	0.549000E-01	0.174300E+00	-0.595700E+00	0.107850E+01	-0.156860E+01	0.876900E+00	0.112200E+00
7.000	0.100200E+00	0.158700E+00	-0.589100E+00	0.107760E+01	-0.156170E+01	0.894000E+00	0.174300E+00
7.200	0.145500E+00	0.141300E+00	-0.593200E+00	0.106920E+01	-0.155300E+01	0.909000E+00	0.241700E+00
7.400	0.190000E+00	0.121200E+00	-0.604400E+00	0.105430E+01	-0.154230E+01	0.929900E+00	0.314700E+00
7.600	0.232400E+00	0.989000E-01	-0.618200E+00	0.103780E+01	-0.152950E+01	0.950700E+00	0.392700E+00
7.800	0.272100E+00	0.753000E-01	-0.629200E+00	0.102660E+01	-0.151430E+01	0.970500E+00	0.473800E+00
8.000	0.308100E+00	0.506000E-01	-0.632400E+00	0.102430E+01	-0.149660E+01	0.989100E+00	0.557800E+00
8.200	0.340500E+00	0.251000E-01	-0.626700E+00	0.103220E+01	-0.147740E+01	0.100820E+01	0.643800E+00
8.400	0.368100E+00	0.100000E-03	-0.612500E+00	0.105040E+01	-0.145530E+01	0.102470E+01	0.730200E+00
8.600	0.391400E+00	-0.241000E-01	-0.592100E+00	0.107610E+01	-0.143180E+01	0.104270E+01	0.817400E+00
8.800	0.410200E+00	-0.466000E-01	-0.567400E+00	0.110720E+01	-0.140620E+01	0.105910E+01	0.901000E+00
9.000	0.424800E+00	-0.671000E-01	-0.540200E+00	0.114120E+01	-0.137900E+01	0.107570E+01	0.980900E+00
9.200	0.435500E+00	-0.851000E-01	-0.511800E+00	0.117600E+01	-0.135080E+01	0.109500E+01	0.105600E+01
9.400	0.442600E+00	-0.100500E+00	-0.483100E+00	0.121030E+01	-0.132140E+01	0.111530E+01	0.112480E+01
9.600	0.446500E+00	-0.113000E+00	-0.454700E+00	0.124280E+01	-0.129060E+01	0.113750E+01	0.118650E+01
9.800	0.447700E+00	-0.122900E+00	-0.427000E+00	0.127270E+01	-0.125850E+01	0.116320E+01	0.124310E+01
10.000	0.446500E+00	-0.130300E+00	-0.400200E+00	0.129950E+01	-0.122430E+01	0.119080E+01	0.129350E+01
10.200	0.443200E+00	-0.135300E+00	-0.374400E+00	0.132310E+01	-0.118760E+01	0.121950E+01	0.134070E+01
10.400	0.438200E+00	-0.138200E+00	-0.349500E+00	0.134330E+01	-0.114750E+01	0.124780E+01	0.138400E+01
10.600	0.431900E+00	-0.139400E+00	-0.325700E+00	0.136030E+01	-0.110340E+01	0.127590E+01	0.142820E+01
10.800	0.424500E+00	-0.139100E+00	-0.302800E+00	0.137400E+01	-0.105440E+01	0.130030E+01	0.146980E+01
11.000	0.416300E+00	-0.137600E+00	-0.280800E+00	0.138480E+01	-0.100030E+01	0.132030E+01	0.151090E+01
11.200	0.407500E+00	-0.135200E+00	-0.259600E+00	0.139270E+01	-0.940600E+00	0.133420E+01	0.155180E+01
11.400	0.398300E+00	-0.132100E+00	-0.239300E+00	0.139800E+01	-0.875400E+00	0.134130E+01	0.159240E+01
11.600	0.388900E+00	-0.128400E+00	-0.219700E+00	0.140080E+01	-0.805200E+00	0.134060E+01	0.163050E+01
11.800	0.379500E+00	-0.124300E+00	-0.200900E+00	0.140150E+01	-0.730000E+00	0.133130E+01	0.167060E+01
12.000	0.370300E+00	-0.120000E+00	-0.182700E+00	0.140030E+01	-0.650500E+00	0.131280E+01	0.170860E+01
12.200	0.361200E+00	-0.115600E+00	-0.165000E+00	0.139730E+01	-0.567300E+00	0.128460E+01	0.174270E+01
12.400	0.352400E+00	-0.111000E+00	-0.148000E+00	0.139280E+01	-0.481200E+00	0.124700E+01	0.177090E+01
12.600	0.344100E+00	-0.106300E+00	-0.131400E+00	0.138710E+01	-0.393400E+00	0.120060E+01	0.178900E+01
12.800	0.336200E+00	-0.101700E+00	-0.115400E+00	0.138110E+01	-0.303400E+00	0.114560E+01	0.180110E+01
13.000	0.328800E+00	-0.971000E-01	-0.100000E+00	0.137490E+01	-0.212100E+00	0.108290E+01	0.180600E+01
13.200	0.321900E+00	-0.925000E-01	-0.856000E-01	0.136890E+01	-0.119900E+00	0.101360E+01	0.180860E+01
13.400	0.315600E+00	-0.878000E-01	-0.724000E-01	0.136330E+01	-0.271000E-01	0.938500E+00	0.181180E+01
13.600	0.309800E+00	-0.831000E-01	-0.608000E-01	0.135810E+01	0.657000E-01	0.858400E+00	0.178790E+01
13.800	0.304500E+00	-0.782000E-01	-0.517000E-01	0.135300E+01	0.158000E+00	0.774200E+00	0.170110E+01
14.000	0.299600E+00	-0.732000E-01	-0.458000E-01	0.134710E+01	0.248500E+00	0.686900E+00	0.161690E+01
14.200	0.295000E+00	-0.677000E-01	0.439000E-01	0.133920E+01	0.335200E+00	0.597900E+00	0.157040E+01
14.400	0.290500E+00	-0.619000E-01	0.470000E-01	0.132750E+01	0.415700E+00	0.509200E+00	0.154810E+01
14.600	0.285700E+00	-0.555000E-01	0.558000E-01	0.130970E+01	0.486900E+00	0.423400E+00	0.153460E+01
14.800	0.280300E+00	-0.484000E-01	0.709000E-01	0.128320E+01	0.545000E+00	0.344000E+00	0.152080E+01
15.000	0.274000E+00	-0.406000E-01	0.921000E-01	0.124540E+01	0.586300E+00	0.275000E+00	0.150190E+01
15.200	0.266100E+00	-0.321000E-01	0.118800E+00	0.119390E+01	0.607700E+00	0.216800E+00	0.147580E+01
15.400	0.256300E+00	-0.231000E-01	0.149300E+00	0.112720E+01	0.606900E+00	0.180600E+00	0.144400E+01
15.600	0.244300E+00	-0.138000E-01	0.181100E+00	0.104600E+01	0.584500E+00	0.163700E+00	0.140880E+01
15.800	0.230400E+00	-0.480000E-02	0.211400E+00	0.953600E+00	0.544300E+00	0.164000E+00	0.137350E+01
16.000	0.215100E+00	0.360000E-02	0.237400E+00	0.855800E+00	0.492600E+00	0.176500E+00	0.134250E+01
16.200	0.199300E+00	0.109000E-01	0.257600E+00	0.759000E+00	0.436200E+00	0.195500E+00	0.131870E+01
16.400	0.183900E+00	0.170000E-01	0.271600E+00	0.668700E+00	0.381400E+00	0.215300E+00	0.130380E+01
16.600	0.169400E+00	0.218000E-01	0.279900E+00	0.588000E+00	0.331400E+00	0.232900E+00	0.129880E+01
16.800	0.156200E+00	0.256000E-01	0.283600E+00	0.518100E+00	0.288700E+00	0.245500E+00	0.130040E+01
17.000	0.144500E+00	0.284000E-01	0.283700E+00	0.458400E+00	0.252800E+00	0.253600E+00	0.130800E+01
17.200	0.134000E+00	0.305000E-01	0.281200E+00	0.407900E+00	0.223100E+00	0.257600E+00	0.132020E+01
17.400	0.124700E+00	0.320000E-01	0.277000E+00	0.365300E+00	0.198800E+00	0.258400E+00	0.133570E+01
17.600	0.116500E+00	0.330000E-01	0.271700E+00	0.329200E+00	0.178700E+00	0.256600E+00	0.135320E+01
17.800	0.109200E+00	0.336000E-01	0.265600E+00	0.298400E+00	0.162200E+00	0.253100E+00	0.137200E+01
18.000	0.102600E+00	0.340000E-01	0.259000E+00	0.272100E+00	0.148400E+00	0.248300E+00	0.139160E+01
18.200	0.967000E-01	0.341000E-01	0.252200E+00	0.249400E+00	0.136700E+00	0.242800E+00	0.141140E+01
18.400	0.913000E-01	0.340000E-01	0.245400E+00	0.229700E+00	0.126800E+00	0.236800E+00	0.143110E+01
18.600	0.864000E-01	0.338000E-01	0.238500E+00	0.212500E+00	0.118200E+00	0.230600E+00	0.145050E+01

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2								
3	18.800	0.819000E-01	0.334000E-01	0.231700E+00	0.197300E+00	0.110800E+00	0.224200E+00	0.146940E+01
4	19.000	0.778000E-01	0.330000E-01	0.225100E+00	0.184000E+00	0.104300E+00	0.217700E+00	0.148720E+01
5	19.200	0.741000E-01	0.324000E-01	0.218600E+00	0.172000E+00	0.984000E-01	0.211700E+00	0.150470E+01
6	19.400	0.706000E-01	0.319000E-01	0.212200E+00	0.161300E+00	0.933000E-01	0.205800E+00	0.152120E+01
7	19.600	0.673000E-01	0.313000E-01	0.206100E+00	0.151700E+00	0.886000E-01	0.199900E+00	0.153650E+01
8	19.800	0.643000E-01	0.306000E-01	0.200100E+00	0.143100E+00	0.843000E-01	0.194300E+00	0.155080E+01
9	20.000	0.614000E-01	0.299000E-01	0.194400E+00	0.135200E+00	0.805000E-01	0.188900E+00	0.156240E+01
10	20.200	0.588000E-01	0.292000E-01	0.188900E+00	0.128000E+00	0.769000E-01	0.183800E+00	0.157120E+01
11	20.400	0.563000E-01	0.285000E-01	0.183500E+00	0.121500E+00	0.736000E-01	0.178700E+00	0.157640E+01
12	20.600	0.540000E-01	0.278000E-01	0.178400E+00	0.115400E+00	0.706000E-01	0.173900E+00	0.157600E+01
13	20.800	0.518000E-01	0.271000E-01	0.173400E+00	0.109900E+00	0.678000E-01	0.169300E+00	0.156760E+01
14	21.200	0.478000E-01	0.257000E-01	0.164000E+00	0.100000E+00	0.626000E-01	0.160700E+00	0.150810E+01
15	21.400	0.460000E-01	0.250000E-01	0.159500E+00	0.955000E-01	0.604000E-01	0.156600E+00	0.144150E+01
16	21.600	0.442000E-01	0.243000E-01	0.155200E+00	0.914000E-01	0.582000E-01	0.152700E+00	0.133750E+01
17	22.000	0.410000E-01	0.229000E-01	0.147000E+00	0.840000E-01	0.542000E-01	0.145200E+00	0.102150E+01
18	22.200	0.396000E-01	0.223000E-01	0.143100E+00	0.806000E-01	0.525000E-01	0.141600E+00	0.849300E+00
19	22.400	0.381000E-01	0.216000E-01	0.139400E+00	0.774000E-01	0.508000E-01	0.138200E+00	0.698100E+00
20	23.600	0.310000E-01	0.181000E-01	0.119400E+00	0.619000E-01	0.424000E-01	0.119500E+00	0.258800E+00
21	24.000	0.290000E-01	0.170000E-01	0.113600E+00	0.577000E-01	0.401000E-01	0.113900E+00	0.202400E+00
22	24.200	0.281000E-01	0.165000E-01	0.110900E+00	0.558000E-01	0.391000E-01	0.111200E+00	0.181000E+00
23	24.400	0.272000E-01	0.160000E-01	0.108200E+00	0.539000E-01	0.381000E-01	0.108700E+00	0.163000E+00
24	24.800	0.255000E-01	0.151000E-01	0.103100E+00	0.505000E-01	0.362000E-01	0.103700E+00	0.134500E+00
25	25.000	0.247000E-01	0.147000E-01	0.100700E+00	0.489000E-01	0.353000E-01	0.101300E+00	0.123100E+00
26	25.400	0.232000E-01	0.138000E-01	0.960000E-01	0.459000E-01	0.336000E-01	0.967000E-01	0.104500E+00
27	25.600	0.225000E-01	0.134000E-01	0.938000E-01	0.446000E-01	0.329000E-01	0.944000E-01	0.968000E-01
28	25.800	0.219000E-01	0.130000E-01	0.917000E-01	0.432000E-01	0.321000E-01	0.923000E-01	0.900000E-01
29	26.000	0.212000E-01	0.126000E-01	0.896000E-01	0.419000E-01	0.314000E-01	0.901000E-01	0.839000E-01
30	26.400	0.200000E-01	0.119000E-01	0.856000E-01	0.395000E-01	0.300000E-01	0.861000E-01	0.736000E-01
31	26.600	0.194000E-01	0.115000E-01	0.837000E-01	0.384000E-01	0.293000E-01	0.841000E-01	0.691000E-01
32	26.800	0.189000E-01	0.112000E-01	0.819000E-01	0.373000E-01	0.287000E-01	0.822000E-01	0.652000E-01
33	27.000	0.184000E-01	0.109000E-01	0.801000E-01	0.362000E-01	0.280000E-01	0.803000E-01	0.615000E-01
34	27.200	0.178000E-01	0.106000E-01	0.783000E-01	0.352000E-01	0.274000E-01	0.784000E-01	0.581000E-01
35	27.400	0.173000E-01	0.103000E-01	0.766000E-01	0.343000E-01	0.268000E-01	0.767000E-01	0.550000E-01
36	27.600	0.169000E-01	0.100000E-01	0.750000E-01	0.333000E-01	0.263000E-01	0.749000E-01	0.522000E-01
37	28.000	0.160000E-01	0.940000E-02	0.719000E-01	0.316000E-01	0.252000E-01	0.716000E-01	0.472000E-01
38	28.200	0.155000E-01	0.910000E-02	0.704000E-01	0.307000E-01	0.246000E-01	0.700000E-01	0.450000E-01
39	28.600	0.147000E-01	0.860000E-02	0.675000E-01	0.291000E-01	0.236000E-01	0.669000E-01	0.411000E-01
40	28.800	0.143000E-01	0.840000E-02	0.661000E-01	0.284000E-01	0.231000E-01	0.654000E-01	0.393000E-01
41	29.400	0.132000E-01	0.770000E-02	0.622000E-01	0.263000E-01	0.217000E-01	0.612000E-01	0.344000E-01
42	30.200	0.119000E-01	0.690000E-02	0.574000E-01	0.238000E-01	0.200000E-01	0.560000E-01	0.293000E-01
43	30.400	0.116000E-01	0.670000E-02	0.563000E-01	0.232000E-01	0.196000E-01	0.547000E-01	0.282000E-01
44	31.400	0.103000E-01	0.580000E-02	0.511000E-01	0.206000E-01	0.178000E-01	0.491000E-01	0.235000E-01
45	31.600	0.100000E-01	0.570000E-02	0.502000E-01	0.202000E-01	0.174000E-01	0.480000E-01	0.227000E-01
46	31.800	0.980000E-02	0.550000E-02	0.492000E-01	0.197000E-01	0.171000E-01	0.470000E-01	0.219000E-01
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Table 4: $(4)^1\Sigma^+ - (1-7)^1\Pi$ transitions

R	4-1	4-2	4-3	4-4	4-5	4-6	4-7
3.000	0.238370E+01	-0.497200E+00	-0.400600E+01	0.413730E+01	-0.202970E+01	0.394200E+00	-0.605800E+00
3.200	0.239490E+01	-0.539300E+00	-0.381840E+01	0.413600E+01	-0.240080E+01	0.342900E+00	-0.624400E+00
3.400	0.243330E+01	-0.511000E+00	-0.387230E+01	0.397050E+01	-0.263230E+01	0.280500E+00	-0.611400E+00
3.800	0.257810E+01	-0.328100E+00	-0.433510E+01	0.338450E+01	-0.283250E+01	0.159900E+00	-0.515100E+00
4.000	0.267100E+01	-0.201500E+00	-0.462310E+01	0.301950E+01	-0.283790E+01	0.112800E+00	-0.447600E+00
4.200	0.276890E+01	-0.630000E-01	-0.488910E+01	0.266300E+01	-0.279400E+01	0.749000E-01	-0.374600E+00
4.400	0.286630E+01	0.812000E-01	-0.511090E+01	0.236640E+01	-0.271280E+01	0.452000E-01	-0.299600E+00
4.600	0.295970E+01	0.225700E+00	-0.528510E+01	0.216600E+01	-0.260650E+01	0.245000E-01	-0.223400E+00
4.800	0.304640E+01	0.366000E+00	-0.541760E+01	0.207190E+01	-0.248610E+01	-0.145000E-01	-0.150200E+00
5.200	0.319330E+01	0.623900E+00	-0.559120E+01	0.214520E+01	-0.222360E+01	-0.316000E-01	-0.202000E-01
5.400	0.325190E+01	0.740000E+00	-0.564410E+01	0.226810E+01	-0.208440E+01	-0.525000E-01	0.347000E-01
5.600	0.329990E+01	0.848500E+00	-0.567830E+01	0.242240E+01	-0.194230E+01	-0.746000E-01	0.816000E-01
5.800	0.333690E+01	0.950800E+00	-0.569410E+01	0.259700E+01	-0.179990E+01	-0.931000E-01	0.121300E+00
6.000	0.336250E+01	0.104840E+01	-0.568990E+01	0.278710E+01	-0.166080E+01	-0.104700E+00	0.154200E+00
6.200	0.337580E+01	0.114260E+01	-0.566170E+01	0.299380E+01	-0.152810E+01	-0.106500E+00	0.180400E+00
6.400	0.337590E+01	0.123390E+01	-0.560310E+01	0.322190E+01	-0.140380E+01	-0.967000E-01	0.200200E+00
6.600	0.336140E+01	0.132250E+01	-0.550490E+01	0.347790E+01	-0.128930E+01	-0.745000E-01	0.212600E+00
6.800	0.332990E+01	0.140730E+01	-0.535410E+01	0.376630E+01	-0.118380E+01	-0.374000E-01	0.218700E+00
7.000	0.327760E+01	0.148600E+01	-0.513680E+01	0.408440E+01	-0.108640E+01	-0.164000E-01	0.218300E+00
7.200	0.319800E+01	0.155440E+01	-0.484200E+01	0.441290E+01	-0.993500E+00	0.906000E-01	0.215500E+00
7.400	0.307920E+01	0.160300E+01	-0.447250E+01	0.470760E+01	-0.901000E+00	0.192400E+00	0.208000E+00
7.600	0.290900E+01	0.161740E+01	-0.405070E+01	0.489350E+01	-0.798500E+00	0.329800E+00	0.202900E+00
7.800	0.263470E+01	0.157630E+01	-0.361340E+01	0.487770E+01	-0.671000E+00	0.506700E+00	0.206600E+00
8.000	0.226520E+01	0.146250E+01	-0.319160E+01	0.459880E+01	-0.506600E+00	0.707600E+00	0.220200E+00
8.200	0.183260E+01	0.129060E+01	-0.280830E+01	0.410960E+01	-0.314800E+00	0.892600E+00	0.236100E+00
8.400	0.142140E+01	0.110780E+01	-0.248660E+01	0.356800E+01	-0.126700E+00	0.102700E+01	0.244100E+00
8.600	0.108510E+01	0.949600E+00	-0.223430E+01	0.309660E+01	0.331000E-01	0.111070E+01	0.239600E+00
8.800	0.828400E+00	0.824400E+00	-0.204260E+01	0.272760E+01	0.159400E+00	0.115750E+01	0.225600E+00
9.000	0.635500E+00	0.727000E+00	-0.189630E+01	0.244790E+01	0.255800E+00	0.118160E+01	0.205400E+00
9.200	0.490000E+00	0.650500E+00	-0.178210E+01	0.223610E+01	0.328000E+00	0.119300E+01	0.182400E+00
9.400	0.379200E+00	0.589200E+00	-0.169100E+01	0.207430E+01	0.381300E+00	0.119570E+01	0.158500E+00
9.600	0.294400E+00	0.539200E+00	-0.161630E+01	0.194900E+01	0.420200E+00	0.119280E+01	0.135800E+00
9.800	0.229400E+00	0.497600E+00	-0.155370E+01	0.185100E+01	0.448300E+00	0.118710E+01	0.115100E+00
10.000	0.179900E+00	0.462600E+00	-0.150020E+01	0.177370E+01	0.468600E+00	0.117930E+01	0.966000E-01
10.200	0.142600E+00	0.432700E+00	-0.145380E+01	0.171220E+01	0.483700E+00	0.116990E+01	0.805000E-01
10.400	0.115000E+00	0.406700E+00	-0.141290E+01	0.166330E+01	0.496000E+00	0.115970E+01	0.662000E-01
10.600	0.953000E-01	0.383700E+00	-0.137640E+01	0.162420E+01	0.507400E+00	0.114990E+01	0.534000E-01
10.800	0.818000E-01	0.363200E+00	-0.134340E+01	0.159300E+01	0.519600E+00	0.113990E+01	0.416000E-01
11.000	0.733000E-01	0.344500E+00	-0.131330E+01	0.156810E+01	0.534000E+00	0.113050E+01	0.302000E-01
11.200	0.686000E-01	0.327300E+00	-0.128530E+01	0.154800E+01	0.552100E+00	0.112190E+01	0.199000E-01
11.400	0.669000E-01	0.311300E+00	-0.125900E+01	0.153220E+01	0.573900E+00	0.111440E+01	0.920000E-02
11.600	0.673000E-01	0.296200E+00	-0.123370E+01	0.151960E+01	0.600500E+00	0.110840E+01	-0.130000E-02
11.800	0.693000E-01	0.281900E+00	-0.120900E+01	0.150920E+01	0.632200E+00	0.110400E+01	-0.101000E-01
12.000	0.724000E-01	0.268300E+00	-0.118450E+01	0.150050E+01	0.668800E+00	0.110180E+01	-0.174000E-01
12.200	0.762000E-01	0.255300E+00	-0.115970E+01	0.149230E+01	0.710800E+00	0.110160E+01	-0.214000E-01
12.400	0.803000E-01	0.242700E+00	-0.113410E+01	0.148420E+01	0.757400E+00	0.110390E+01	-0.197000E-01
12.600	0.845000E-01	0.230600E+00	-0.110760E+01	0.147580E+01	0.808100E+00	0.110890E+01	0.830000E-02
12.800	0.887000E-01	0.218900E+00	-0.107960E+01	0.146680E+01	0.861900E+00	0.111730E+01	0.202000E-01
13.000	0.927000E-01	0.207600E+00	-0.104990E+01	0.145690E+01	0.917900E+00	0.112950E+01	0.777000E-01
13.200	0.966000E-01	0.196800E+00	-0.101840E+01	0.144600E+01	0.975200E+00	0.114570E+01	0.186100E+00
13.400	0.100200E+00	0.186300E+00	-0.984800E+00	0.143430E+01	0.103270E+01	0.116640E+01	0.380800E+00
13.600	0.103700E+00	0.176400E+00	-0.949100E+00	0.142240E+01	0.108920E+01	0.119190E+01	0.667800E+00
13.800	0.107300E+00	0.166900E+00	-0.911300E+00	0.141070E+01	0.114380E+01	0.122210E+01	0.907300E+00
14.000	0.111100E+00	0.157900E+00	-0.871500E+00	0.140070E+01	0.119610E+01	0.125690E+01	0.100270E+01
14.200	0.115600E+00	0.149600E+00	-0.830000E+00	0.139340E+01	0.124530E+01	0.129630E+01	0.101100E+01
14.400	0.121000E+00	0.141800E+00	-0.786600E+00	0.139130E+01	0.129260E+01	0.133940E+01	0.981300E+00
14.600	0.127800E+00	0.134800E+00	-0.741700E+00	0.139610E+01	0.133810E+01	0.138620E+01	0.934800E+00
14.800	0.136600E+00	0.128300E+00	-0.695400E+00	0.141000E+01	0.138340E+01	0.143630E+01	0.881700E+00
15.000	0.147600E+00	0.122400E+00	-0.647500E+00	0.143460E+01	0.143010E+01	0.148940E+01	0.827700E+00
15.200	0.161100E+00	0.117000E+00	-0.597600E+00	0.147030E+01	0.147910E+01	0.154370E+01	0.776500E+00
15.400	0.176900E+00	0.111600E+00	-0.545000E+00	0.151650E+01	0.153160E+01	0.160230E+01	0.728700E+00
15.600	0.194300E+00	0.106300E+00	-0.490100E+00	0.156910E+01	0.158500E+01	0.166120E+01	0.683400E+00
15.800	0.212500E+00	0.100700E+00	-0.432800E+00	0.162360E+01	0.163740E+01	0.171910E+01	0.638400E+00
16.000	0.230200E+00	0.949000E-01	-0.374400E+00	0.167520E+01	0.168540E+01	0.177370E+01	0.590600E+00
16.200	0.246800E+00	0.889000E-01	-0.316300E+00	0.171970E+01	0.172630E+01	0.182350E+01	0.538100E+00
16.400	0.261500E+00	0.828000E-01	-0.260000E+00	0.175690E+01	0.176030E+01	0.186740E+01	0.480200E+00
16.600	0.274500E+00	0.768000E-01	-0.206500E+00	0.178670E+01	0.178690E+01	0.190510E+01	0.418600E+00
16.800	0.285900E+00	0.711000E-01	-0.156500E+00	0.181050E+01	0.180740E+01	0.193660E+01	0.355100E+00
17.000	0.296100E+00	0.657000E-01	-0.110300E+00	0.182990E+01	0.182270E+01	0.196220E+01	0.292200E+00
17.200	0.305400E+00	0.607000E-01	-0.677000E-01	0.184630E+01	0.183410E+01	0.198250E+01	0.231800E+00
17.400	0.314000E+00	0.561000E-01	-0.288000E-01	0.186120E+01	0.184190E+01	0.199770E+01	0.175500E+00
17.600	0.322300E+00	0.519000E-01	0.700000E-02	0.187490E+01	0.184750E+01	0.200940E+01	0.124100E+00
17.800	0.330400E+00	0.481000E-01	0.397000E-01	0.188840E+01	0.185080E+01	0.201790E+01	0.782000E-01
18.000	0.338500E+00	0.446000E-01	0.696000E-01	0.190210E+01	0.185260E+01	0.202360E+01	0.377000E-01
18.200	0.346600E+00	0.415000E-01	0.968000E-01	0.191650E+01	0.185250E+01	0.202700E+01	0.290000E-02
18.400	0.355000E+00	0.386000E-01	0.121600E+00	0.193180E+01	0.185130E+01	0.202900E+01	-0.269000E-01
18.600	0.363600E+00	0.361000E-01	0.144100E+00	0.194820E+01	0.184900E+01	0.202970E+01	-0.520000E-01

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3	18.800	0.372700E+00	0.338000E-01	0.164500E+00	0.196610E+01	0.184560E+01	0.202940E+01	-0.729000E-01	
4	19.000	0.382300E+00	0.317000E-01	0.183000E+00	0.198570E+01	0.184100E+01	0.202830E+01	-0.898000E-01	
5	19.200	0.392400E+00	0.299000E-01	0.199600E+00	0.200710E+01	0.183540E+01	0.202690E+01	-0.103500E+00	
6	19.400	0.403200E+00	0.283000E-01	0.214500E+00	0.203060E+01	0.182870E+01	0.202500E+01	-0.114500E+00	
7	19.600	0.414800E+00	0.269000E-01	0.227900E+00	0.205640E+01	0.182100E+01	0.202280E+01	-0.123100E+00	
8	19.800	0.427300E+00	0.256000E-01	0.239700E+00	0.208470E+01	0.181140E+01	0.201930E+01	-0.129300E+00	
9	20.000	0.440700E+00	0.245000E-01	0.250100E+00	0.211600E+01	0.180150E+01	0.201690E+01	-0.134300E+00	
10	20.200	0.455300E+00	0.236000E-01	0.259300E+00	0.215040E+01	0.179040E+01	0.201440E+01	-0.138000E+00	
11	20.400	0.471200E+00	0.228000E-01	0.267200E+00	0.218820E+01	0.177800E+01	0.201160E+01	-0.140700E+00	
12	20.600	0.488600E+00	0.221000E-01	0.273900E+00	0.223000E+01	0.176430E+01	0.200870E+01	-0.142600E+00	
13	20.800	0.507500E+00	0.216000E-01	0.279500E+00	0.227610E+01	0.174920E+01	0.200550E+01	-0.144000E+00	
14	21.200	0.551300E+00	0.210000E-01	0.287500E+00	0.238340E+01	0.171400E+01	0.199790E+01	-0.145600E+00	
15	21.400	0.576700E+00	0.208000E-01	0.290000E+00	0.244570E+01	0.169370E+01	0.199310E+01	-0.145600E+00	
16	21.600	0.604900E+00	0.208000E-01	0.291500E+00	0.251470E+01	0.167140E+01	0.198740E+01	-0.144000E+00	
17	22.000	0.671000E+00	0.211000E-01	0.291600E+00	0.267610E+01	0.161960E+01	0.197210E+01	-0.131500E+00	
18	22.200	0.709900E+00	0.215000E-01	0.290100E+00	0.277030E+01	0.158960E+01	0.196170E+01	-0.119700E+00	
19	22.400	0.753400E+00	0.219000E-01	0.287600E+00	0.287500E+01	0.155660E+01	0.194890E+01	-0.105100E+00	
20	23.600	0.114560E+01	0.277000E-01	0.248100E+00	0.377840E+01	0.126940E+01	0.177700E+01	0.344000E-01	
21	24.000	0.133600E+01	0.308000E-01	0.224800E+00	0.419170E+01	0.113250E+01	0.166150E+01	0.103100E+00	
22	24.200	0.144090E+01	0.323000E-01	0.211200E+00	0.441240E+01	0.105590E+01	0.158780E+01	0.142800E+00	
23	24.400	0.155010E+01	0.339000E-01	0.196600E+00	0.463680E+01	0.975300E+00	0.150400E+01	0.184700E+00	
24	24.800	0.177100E+01	0.369000E-01	0.165700E+00	0.507460E+01	0.808000E+00	0.131260E+01	0.271400E+00	
25	25.000	0.187720E+01	0.382000E-01	0.150200E+00	0.527680E+01	0.725100E+00	0.120940E+01	0.314100E+00	
26	25.400	0.206930E+01	0.401000E-01	0.120700E+00	0.562790E+01	0.569600E+00	0.100240E+01	0.393300E+00	
27	25.600	0.215250E+01	0.407000E-01	0.107300E+00	0.577350E+01	0.499700E+00	0.903700E+00	0.428500E+00	
28	25.800	0.222640E+01	0.411000E-01	0.951000E-01	0.589910E+01	0.436100E+00	0.810800E+00	0.460500E+00	
29	26.000	0.229130E+01	0.413000E-01	0.840000E-01	0.600630E+01	0.378800E+00	0.724800E+00	0.489200E+00	
30	26.400	0.239680E+01	0.412000E-01	0.654000E-01	0.617360E+01	0.283000E+00	0.575300E+00	0.537500E+00	
31	26.600	0.243910E+01	0.410000E-01	0.576000E-01	0.623790E+01	0.243500E+00	0.511600E+00	0.557500E+00	
32	26.800	0.247560E+01	0.407000E-01	0.508000E-01	0.629200E+01	0.209000E+00	0.454700E+00	0.575200E+00	
33	27.000	0.250710E+01	0.403000E-01	0.448000E-01	0.633760E+01	0.178900E+00	0.404200E+00	0.590800E+00	
34	27.200	0.253430E+01	0.398000E-01	0.395000E-01	0.637610E+01	0.152600E+00	0.359300E+00	0.604600E+00	
35	27.400	0.255780E+01	0.393000E-01	0.349000E-01	0.640870E+01	0.129700E+00	0.319500E+00	0.616900E+00	
36	27.600	0.257830E+01	0.387000E-01	0.309000E-01	0.643640E+01	0.109700E+00	0.284200E+00	0.627800E+00	
37	28.000	0.261160E+01	0.375000E-01	0.242000E-01	0.648030E+01	0.771000E-01	0.225300E+00	0.646300E+00	
38	28.200	0.262530E+01	0.369000E-01	0.215000E-01	0.649780E+01	0.639000E-01	0.200700E+00	0.654200E+00	
39	28.600	0.264780E+01	0.356000E-01	0.169000E-01	0.652610E+01	0.422000E-01	0.159600E+00	0.667600E+00	
40	28.800	0.265720E+01	0.350000E-01	0.151000E-01	0.653760E+01	0.334000E-01	0.142400E+00	0.673400E+00	
41	29.400	0.267950E+01	0.331000E-01	0.107000E-01	0.656440E+01	0.130000E-01	0.101200E+00	0.687700E+00	
42	30.200	0.269980E+01	0.308000E-01	0.680000E-02	0.658810E+01	0.390000E-02	0.641000E-01	0.701800E+00	
43	30.400	0.270370E+01	0.302000E-01	0.610000E-02	0.659260E+01	0.690000E-02	0.571000E-01	0.704700E+00	
44	31.400	0.271850E+01	0.275000E-01	0.370000E-02	0.660970E+01	0.167000E-01	0.315000E-01	0.716100E+00	
45	31.600	0.272090E+01	0.270000E-01	0.330000E-02	0.661230E+01	0.179000E-01	0.278000E-01	0.718000E+00	
46	31.800	0.272300E+01	0.265000E-01	0.300000E-02	0.661470E+01	0.189000E-01	0.244000E-01	0.719700E+00	
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Table 5: $(1)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.200	0.105600E+00	0.194830E+01	-0.236970E+01	-0.760300E+00	0.254900E+00	-0.180500E+00	-0.274100E+00
3.400	0.135800E+00	0.198550E+01	-0.238180E+01	-0.790300E+00	0.189000E+00	-0.221200E+00	-0.273600E+00
3.800	0.200700E+00	0.209150E+01	-0.234780E+01	-0.880400E+00	0.574000E-01	-0.279500E+00	-0.262900E+00
4.000	0.231900E+00	0.215420E+01	-0.225910E+01	-0.104310E+01	0.810000E-02	-0.297500E+00	-0.256400E+00
4.200	0.260900E+00	0.221750E+01	-0.151970E+01	-0.193670E+01	0.728000E-01	-0.309300E+00	-0.249800E+00
4.400	0.287300E+00	0.227780E+01	-0.105100E+00	-0.242890E+01	0.136300E+00	-0.316200E+00	-0.243300E+00
4.600	0.310900E+00	0.233280E+01	0.344400E+00	-0.237430E+01	0.199300E+00	-0.318800E+00	-0.236200E+00
4.800	0.331900E+00	0.238170E+01	0.409600E+00	-0.233170E+01	0.263300E+00	-0.317300E+00	-0.228600E+00
5.200	0.367400E+00	0.246160E+01	0.437200E+00	-0.226370E+01	0.408000E+00	-0.296200E+00	-0.209800E+00
5.400	0.383000E+00	0.249400E+01	0.435300E+00	-0.223100E+01	0.498000E+00	-0.269700E+00	-0.197700E+00
5.600	0.397800E+00	0.252230E+01	0.430000E+00	-0.219500E+01	0.602700E+00	-0.226900E+00	-0.183700E+00
5.800	0.412200E+00	0.254760E+01	0.423600E+00	-0.215570E+01	0.708900E+00	-0.167500E+00	-0.168300E+00
6.000	0.426800E+00	0.257050E+01	0.417700E+00	-0.212270E+01	0.782000E+00	-0.101600E+00	-0.152400E+00
6.200	0.441900E+00	0.259170E+01	0.413400E+00	-0.211090E+01	0.787800E+00	-0.487000E-01	-0.136900E+00
6.400	0.457800E+00	0.261200E+01	0.411900E+00	-0.212140E+01	0.726200E+00	-0.225000E-01	-0.122700E+00
6.600	0.474800E+00	0.263200E+01	0.414500E+00	-0.213970E+01	0.626300E+00	0.210000E-01	-0.110300E+00
6.800	0.493200E+00	0.265210E+01	0.422700E+00	-0.215240E+01	0.519400E+00	0.340000E-01	-0.999000E-01
7.000	0.513300E+00	0.267290E+01	0.439100E+00	-0.215410E+01	0.423200E+00	0.523000E-01	-0.913000E-01
7.200	0.535200E+00	0.269450E+01	0.467500E+00	-0.214380E+01	0.343300E+00	0.707000E-01	-0.838000E-01
7.400	0.559300E+00	0.271760E+01	0.515900E+00	-0.212050E+01	0.279000E+00	0.874000E-01	-0.779000E-01
7.600	0.585800E+00	0.274200E+01	0.600300E+00	-0.207940E+01	0.227900E+00	0.101400E+00	-0.729000E-01
7.800	0.614900E+00	0.276810E+01	0.759200E+00	-0.200160E+01	0.187200E+00	0.113000E+00	-0.682000E-01
8.000	0.646900E+00	0.279570E+01	0.108810E+01	-0.181020E+01	0.154600E+00	0.122300E+00	-0.635000E-01
8.200	0.682100E+00	0.282470E+01	0.163290E+01	-0.128590E+01	0.128400E+00	0.129700E+00	-0.581000E-01
8.400	0.720600E+00	0.285480E+01	0.192480E+01	-0.676000E+00	0.107300E+00	0.135300E+00	-0.501000E-01
8.600	0.762800E+00	0.288560E+01	0.196340E+01	-0.365400E+00	0.901000E-01	0.139400E+00	-0.355000E-01
8.800	0.808800E+00	0.291660E+01	0.193790E+01	-0.213800E+00	0.763000E-01	0.142200E+00	-0.180000E-02
9.000	0.858800E+00	0.294720E+01	0.189370E+01	-0.128400E+00	0.650000E-01	0.143600E+00	0.688000E-01
9.200	0.913100E+00	0.297680E+01	0.184100E+01	-0.744000E-01	0.558000E-01	0.143800E+00	0.124800E+00
9.400	0.971600E+00	0.300460E+01	0.178300E+01	-0.371000E-01	0.484000E-01	0.142800E+00	0.146900E+00
9.600	0.103430E+01	0.303010E+01	0.172120E+01	-0.980000E-02	0.423000E-01	0.140500E+00	0.156900E+00
9.800	0.110120E+01	0.305260E+01	0.165630E+01	0.114000E-01	0.373000E-01	0.136500E+00	0.162700E+00
10.000	0.117200E+01	0.307150E+01	0.158900E+01	0.284000E-01	0.329000E-01	0.130500E+00	0.167400E+00
10.200	0.124610E+01	0.308660E+01	0.151960E+01	0.423000E-01	0.291000E-01	0.121100E+00	0.172800E+00
10.400	0.132300E+01	0.309750E+01	0.144870E+01	0.539000E-01	0.257000E-01	0.105300E+00	0.180700E+00
10.600	0.140210E+01	0.310420E+01	0.137650E+01	0.636000E-01	0.227000E-01	0.718000E-01	0.194100E+00
10.800	0.148230E+01	0.310680E+01	0.130330E+01	0.717000E-01	0.203000E-01	-0.114000E-01	0.204300E+00
11.000	0.156280E+01	0.310540E+01	0.122940E+01	0.784000E-01	0.189000E-01	-0.951000E-01	0.178600E+00
11.200	0.164250E+01	0.310040E+01	0.115500E+01	0.839000E-01	0.186000E-01	-0.126600E+00	0.154800E+00
11.400	0.172070E+01	0.309220E+01	0.108060E+01	0.884000E-01	0.196000E-01	-0.140500E+00	0.139000E+00
11.600	0.179630E+01	0.308110E+01	0.100660E+01	0.920000E-01	0.219000E-01	-0.148700E+00	0.126600E+00
11.800	0.186880E+01	0.306780E+01	0.933500E+00	0.950000E-01	0.255000E-01	-0.154200E+00	0.115800E+00
12.000	0.193750E+01	0.305260E+01	0.861700E+00	0.974000E-01	0.304000E-01	-0.158100E+00	0.105700E+00
12.200	0.200220E+01	0.303590E+01	0.792100E+00	0.993000E-01	0.366000E-01	-0.160700E+00	0.960000E-01
12.400	0.206260E+01	0.301810E+01	0.725000E+00	0.101000E+00	0.442000E-01	-0.162000E+00	0.865000E-01
12.600	0.211860E+01	0.299960E+01	0.661000E+00	0.102400E+00	0.532000E-01	-0.162000E+00	0.771000E-01
12.800	0.217040E+01	0.298070E+01	0.600700E+00	0.103800E+00	0.634000E-01	-0.160500E+00	0.679000E-01
13.000	0.221800E+01	0.296160E+01	0.544200E+00	0.105100E+00	0.746000E-01	-0.157400E+00	0.589000E-01
13.200	0.226170E+01	0.294260E+01	0.491900E+00	0.106400E+00	0.862000E-01	-0.152600E+00	0.502000E-01
13.400	0.230180E+01	0.292390E+01	0.443800E+00	0.107800E+00	0.976000E-01	-0.146300E+00	0.419000E-01
13.600	0.233840E+01	0.290570E+01	0.399900E+00	0.109200E+00	0.108200E+00	-0.139000E+00	0.339000E-01
13.800	0.237200E+01	0.288800E+01	0.360100E+00	0.110900E+00	0.117300E+00	-0.131200E+00	0.264000E-01
14.000	0.240270E+01	0.287100E+01	0.324200E+00	0.112600E+00	0.124900E+00	-0.123400E+00	0.195000E-01
14.200	0.243080E+01	0.285470E+01	0.292000E+00	0.114500E+00	0.130700E+00	-0.115900E+00	0.130000E-01
14.400	0.245660E+01	0.283920E+01	0.263300E+00	0.116600E+00	0.135100E+00	-0.109000E+00	0.690000E-02
14.600	0.248030E+01	0.282440E+01	0.237600E+00	0.118900E+00	0.138200E+00	-0.102600E+00	0.130000E-02
14.800	0.250200E+01	0.281050E+01	0.214900E+00	0.121400E+00	0.140100E+00	-0.967000E-01	-0.400000E-02
15.000	0.252210E+01	0.279730E+01	0.194700E+00	0.124000E+00	0.141200E+00	-0.911000E-01	-0.920000E-02
15.200	0.254060E+01	0.278480E+01	0.176800E+00	0.126900E+00	0.141400E+00	-0.859000E-01	-0.145000E-01
15.400	0.255780E+01	0.277310E+01	0.161000E+00	0.129800E+00	0.141000E+00	-0.806000E-01	-0.201000E-01
15.600	0.257360E+01	0.276200E+01	0.147000E+00	0.132900E+00	0.140000E+00	-0.749000E-01	-0.266000E-01
15.800	0.258840E+01	0.275160E+01	0.134700E+00	0.136200E+00	0.138500E+00	-0.679000E-01	-0.346000E-01
16.000	0.260210E+01	0.274180E+01	0.123700E+00	0.139500E+00	0.136500E+00	-0.581000E-01	-0.444000E-01
16.200	0.261490E+01	0.273250E+01	0.114000E+00	0.142900E+00	0.134100E+00	-0.447000E-01	-0.542000E-01
16.400	0.262690E+01	0.272370E+01	0.105400E+00	0.146400E+00	0.131300E+00	-0.304000E-01	-0.602000E-01
16.600	0.263810E+01	0.271550E+01	0.978000E-01	0.149900E+00	0.128200E+00	-0.190000E-01	-0.619000E-01
16.800	0.264870E+01	0.270770E+01	0.909000E-01	0.153400E+00	0.124700E+00	-0.113000E-01	-0.611000E-01
17.000	0.265860E+01	0.270030E+01	0.848000E-01	0.156900E+00	0.120900E+00	-0.600000E-02	-0.592000E-01
17.200	0.266790E+01	0.269320E+01	0.794000E-01	0.160300E+00	0.116900E+00	-0.230000E-02	-0.568000E-01
17.400	0.267670E+01	0.268660E+01	0.745000E-01	0.163600E+00	0.112700E+00	0.400000E-03	-0.543000E-01
17.600	0.268500E+01	0.268030E+01	0.700000E-01	0.166800E+00	0.108200E+00	0.240000E-02	-0.516000E-01
17.800	0.269280E+01	0.267420E+01	0.660000E-01	0.169900E+00	0.103700E+00	0.400000E-02	-0.488000E-01
18.000	0.270030E+01	0.266850E+01	0.624000E-01	0.172800E+00	0.990000E-01	0.520000E-02	-0.460000E-01
18.200	0.270730E+01	0.266310E+01	0.591000E-01	0.175500E+00	0.943000E-01	0.620000E-02	-0.432000E-01
18.400	0.271400E+01	0.265790E+01	0.561000E-01	0.178000E+00	0.896000E-01	0.690000E-02	-0.404000E-01
18.600	0.272040E+01	0.265290E+01	0.533000E-01	0.180300E+00	0.850000E-01	0.750000E-02	-0.376000E-01
18.800	0.272650E+01	0.264820E+01	0.507000E-01	0.182400E+00	0.804000E-01	0.800000E-02	-0.349000E-01

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2								
3	19.000	0.273230E+01	0.264360E+01	0.483000E-01	0.184300E+00	0.758000E-01	0.830000E-02	-0.324000E-01
4	19.200	0.273780E+01	0.263930E+01	0.462000E-01	0.186000E+00	0.715000E-01	0.860000E-02	-0.299000E-01
5	19.400	0.274310E+01	0.263510E+01	0.441000E-01	0.187500E+00	0.673000E-01	0.890000E-02	-0.274000E-01
6	19.600	0.274820E+01	0.263110E+01	0.422000E-01	0.188800E+00	0.634000E-01	0.910000E-02	-0.249000E-01
7	19.800	0.275300E+01	0.262730E+01	0.405000E-01	0.190000E+00	0.596000E-01	0.920000E-02	-0.226000E-01
8	20.000	0.275760E+01	0.262360E+01	0.388000E-01	0.191000E+00	0.560000E-01	0.930000E-02	-0.204000E-01
9	20.200	0.276210E+01	0.262010E+01	0.372000E-01	0.191900E+00	0.526000E-01	0.940000E-02	-0.182000E-01
10	20.400	0.276630E+01	0.261670E+01	0.358000E-01	0.192600E+00	0.495000E-01	0.950000E-02	-0.162000E-01
11	20.600	0.277040E+01	0.261340E+01	0.344000E-01	0.193300E+00	0.465000E-01	0.960000E-02	-0.142000E-01
12	20.800	0.277430E+01	0.261030E+01	0.331000E-01	0.193800E+00	0.437000E-01	0.960000E-02	-0.122000E-01
13	21.200	0.278170E+01	0.260430E+01	0.307000E-01	0.194700E+00	0.386000E-01	0.970000E-02	-0.780000E-02
14	21.400	0.278520E+01	0.260150E+01	0.296000E-01	0.195000E+00	0.363000E-01	0.970000E-02	-0.480000E-02
15	21.600	0.278860E+01	0.259880E+01	0.285000E-01	0.195300E+00	0.342000E-01	0.970000E-02	-0.300000E-03
16	22.000	0.279490E+01	0.259360E+01	0.266000E-01	0.195800E+00	0.303000E-01	0.970000E-02	0.544000E-01
17	22.200	0.279790E+01	0.259120E+01	0.257000E-01	0.195900E+00	0.286000E-01	0.970000E-02	0.616000E-01
18	22.400	0.280080E+01	0.258880E+01	0.248000E-01	0.196100E+00	0.269000E-01	0.970000E-02	0.624000E-01
19	23.600	0.281620E+01	0.257610E+01	0.203000E-01	0.196500E+00	0.190000E-01	0.960000E-02	0.611000E-01
20	24.000	0.282060E+01	0.257260E+01	0.190000E-01	0.196500E+00	0.169000E-01	0.950000E-02	0.605000E-01
21	24.200	0.282270E+01	0.257070E+01	0.184000E-01	0.196500E+00	0.159000E-01	0.950000E-02	0.602000E-01
22	24.400	0.282480E+01	0.256900E+01	0.179000E-01	0.196500E+00	0.150000E-01	0.940000E-02	0.600000E-01
23	24.800	0.282870E+01	0.256590E+01	0.168000E-01	0.196500E+00	0.133000E-01	0.930000E-02	0.596000E-01
24	25.000	0.283050E+01	0.256400E+01	0.163000E-01	0.196500E+00	0.125000E-01	0.920000E-02	0.595000E-01
25	25.400	0.283410E+01	0.256120E+01	0.153000E-01	0.196400E+00	0.111000E-01	0.900000E-02	0.593000E-01
26	25.600	0.283580E+01	0.255950E+01	0.148000E-01	0.196400E+00	0.104000E-01	0.890000E-02	0.593000E-01
27	25.800	0.283740E+01	0.255820E+01	0.144000E-01	0.196400E+00	0.980000E-02	0.880000E-02	0.593000E-01
28	26.000	0.283900E+01	0.255720E+01	0.140000E-01	0.196400E+00	0.920000E-02	0.860000E-02	0.593000E-01
29	26.400	0.284200E+01	0.255460E+01	0.132000E-01	0.196300E+00	0.810000E-02	0.830000E-02	0.595000E-01
30	26.600	0.284350E+01	0.255350E+01	0.128000E-01	0.196300E+00	0.760000E-02	0.810000E-02	0.596000E-01
31	26.800	0.284490E+01	0.255230E+01	0.124000E-01	0.196200E+00	0.720000E-02	0.790000E-02	0.597000E-01
32	27.000	0.284630E+01	0.255120E+01	0.121000E-01	0.196200E+00	0.670000E-02	0.770000E-02	0.599000E-01
33	27.200	0.284760E+01	0.255000E+01	0.117000E-01	0.196200E+00	0.630000E-02	0.750000E-02	0.601000E-01
34	27.400	0.284890E+01	0.254890E+01	0.114000E-01	0.196100E+00	0.590000E-02	0.730000E-02	0.604000E-01
35	27.600	0.285010E+01	0.254790E+01	0.110000E-01	0.196100E+00	0.560000E-02	0.700000E-02	0.606000E-01
36	28.000	0.285250E+01	0.254590E+01	0.104000E-01	0.196000E+00	0.490000E-02	0.660000E-02	0.611000E-01
37	28.200	0.285370E+01	0.254480E+01	0.101000E-01	0.196000E+00	0.460000E-02	0.630000E-02	0.614000E-01
38	28.600	0.285590E+01	0.254300E+01	0.960000E-02	0.196000E+00	0.410000E-02	0.590000E-02	0.620000E-01
39	28.800	0.285690E+01	0.254210E+01	0.930000E-02	0.195900E+00	0.390000E-02	0.570000E-02	0.623000E-01
40	29.400	0.285990E+01	0.253950E+01	0.860000E-02	0.195800E+00	0.330000E-02	0.500000E-02	0.632000E-01
41	30.200	0.286350E+01	0.253640E+01	0.770000E-02	0.195700E+00	0.270000E-02	0.420000E-02	0.642000E-01
42	30.400	0.286360E+01	0.253490E+01	0.750000E-02	0.195700E+00	0.250000E-02	0.410000E-02	0.644000E-01
43	31.400	0.286820E+01	0.253230E+01	0.660000E-02	0.195600E+00	0.200000E-02	0.330000E-02	0.655000E-01
44	31.600	0.286910E+01	0.253170E+01	0.640000E-02	0.195600E+00	0.190000E-02	0.320000E-02	0.657000E-01
45	31.800	0.286970E+01	0.253110E+01	0.630000E-02	0.195500E+00	0.180000E-02	0.310000E-02	0.659000E-01
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Table 6: $(2)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	2-1	2-2	2-3	2-4	2-5	2-6	2-7
3.000	-0.549000E-01	0.582500E+00	0.278700E+00	-0.154920E+01	-0.264100E+00	-0.121390E+01	-0.180500E+00
3.200	0.400000E-02	0.673200E+00	0.266400E+00	-0.149290E+01	-0.295300E+00	-0.125980E+01	-0.125800E+00
3.400	0.254000E-01	0.756600E+00	0.258800E+00	-0.148360E+01	-0.304900E+00	-0.131670E+01	-0.855000E-01
3.800	0.355000E-01	0.944100E+00	0.306600E+00	-0.168310E+01	-0.292900E+00	-0.142200E+01	0.563000E-01
4.000	0.151900E+00	0.105850E+01	0.464800E+00	-0.190060E+01	-0.272600E+00	-0.142800E+01	0.792000E-01
4.200	0.327300E+00	0.117520E+01	0.146950E+01	-0.173780E+01	-0.234400E+00	-0.137910E+01	0.131700E+00
4.400	0.533500E+00	0.126920E+01	0.255900E+01	-0.433700E+00	-0.169700E+00	-0.128320E+01	0.206400E+00
4.600	0.729000E+00	0.132070E+01	0.283130E+01	-0.206300E+00	-0.792000E-01	-0.117130E+01	0.288500E+00
4.800	0.888000E+00	0.132980E+01	0.297700E+01	-0.144200E+00	0.267000E-01	-0.107180E+01	0.364500E+00
5.200	0.109350E+01	0.127040E+01	0.303980E+01	-0.146400E+00	0.242500E+00	-0.933600E+00	0.481500E+00
5.400	0.115420E+01	0.122320E+01	0.301030E+01	-0.184500E+00	0.341600E+00	-0.882800E+00	0.523100E+00
5.600	0.119560E+01	0.117270E+01	0.296190E+01	-0.245000E+00	0.431000E+00	-0.833200E+00	0.555500E+00
5.800	0.122170E+01	0.112200E+01	0.290320E+01	-0.322900E+00	0.509400E+00	-0.778400E+00	0.580600E+00
6.000	0.123570E+01	0.107290E+01	0.283930E+01	-0.401700E+00	0.581800E+00	-0.715400E+00	0.599800E+00
6.200	0.123960E+01	0.102620E+01	0.277330E+01	-0.457600E+00	0.659500E+00	-0.645200E+00	0.614500E+00
6.400	0.123520E+01	0.982500E+00	0.270730E+01	-0.477600E+00	0.746500E+00	-0.572100E+00	0.625800E+00
6.600	0.122370E+01	0.941800E+00	0.264250E+00	-0.466100E+00	0.834400E+00	-0.501300E+00	0.634600E+00
6.800	0.120620E+01	0.904100E+00	0.258010E+01	-0.435000E+00	0.913100E+00	-0.436800E+00	0.641500E+00
7.000	0.118350E+01	0.869100E+00	0.252120E+01	-0.393300E+00	0.978300E+00	-0.380700E+00	0.647500E+00
7.200	0.115640E+01	0.836900E+00	0.246660E+01	-0.341800E+00	0.103060E+01	-0.332600E+00	0.652600E+00
7.400	0.112580E+01	0.806500E+00	0.241750E+01	-0.275100E+00	0.107130E+01	-0.293400E+00	0.658700E+00
7.600	0.109220E+01	0.778000E+00	0.237430E+01	-0.174100E+00	0.110270E+01	-0.261500E+00	0.666300E+00
7.800	0.105600E+01	0.751100E+00	0.233300E+01	0.830000E-02	0.112570E+01	-0.235400E+00	0.676100E+00
8.000	0.101780E+01	0.725400E+00	0.225540E+01	0.399500E+00	0.114140E+01	-0.214400E+00	0.690300E+00
8.200	0.978200E+00	0.700500E+00	0.194510E+01	0.113650E+01	0.115010E+01	-0.198500E+00	0.711800E+00
8.400	0.937100E+00	0.676600E+00	0.146950E+01	0.166500E+01	0.115310E+01	-0.185700E+00	0.748700E+00
8.600	0.895300E+00	0.653100E+00	0.120430E+01	0.183380E+01	0.115020E+01	-0.177400E+00	0.818300E+00
8.800	0.852800E+00	0.630300E+00	0.107890E+01	0.188580E+01	0.114260E+01	-0.171200E+00	0.961800E+00
9.000	0.810100E+00	0.608000E+00	0.101690E+01	0.190190E+01	0.113110E+01	-0.167900E+00	0.118600E+01
9.200	0.767500E+00	0.586200E+00	0.987000E+00	0.190550E+01	0.111700E+01	-0.167800E+00	0.131750E+01
9.400	0.725100E+00	0.564900E+00	0.975200E+00	0.190500E+01	0.110200E+01	-0.171000E+00	0.139450E+01
9.600	0.683300E+00	0.544200E+00	0.974900E+00	0.190360E+01	0.108820E+01	-0.178700E+00	0.145610E+01
9.800	0.642400E+00	0.524100E+00	0.982400E+00	0.190270E+01	0.107780E+01	-0.193400E+00	0.150090E+01
10.000	0.602400E+00	0.504900E+00	0.995700E+00	0.190270E+01	0.107270E+01	-0.218900E+00	0.152640E+01
10.200	0.563600E+00	0.486500E+00	0.101370E+01	0.190390E+01	0.107400E+01	-0.265400E+00	0.153160E+01
10.400	0.526300E+00	0.469100E+00	0.103570E+01	0.190680E+01	0.108120E+01	-0.357000E+00	0.151010E+01
10.600	0.490400E+00	0.452600E+00	0.106150E+01	0.191220E+01	0.109170E+01	-0.568200E+00	0.142630E+01
10.800	0.456300E+00	0.436900E+00	0.109090E+01	0.192150E+01	0.110160E+01	-0.103700E+01	0.109320E+01
11.000	0.423900E+00	0.422000E+00	0.112390E+01	0.193550E+01	0.110730E+01	-0.134490E+01	0.587700E+00
11.200	0.393300E+00	0.407600E+00	0.116040E+01	0.195400E+01	0.110690E+01	-0.137360E+01	0.355200E+00
11.400	0.364600E+00	0.393700E+00	0.120050E+01	0.197520E+01	0.110060E+01	-0.133830E+01	0.254100E+00
11.600	0.337700E+00	0.379900E+00	0.124410E+01	0.199680E+01	0.109060E+01	-0.128370E+01	0.200500E+00
11.800	0.312700E+00	0.366100E+00	0.129130E+01	0.201600E+01	0.107960E+01	-0.121940E+01	0.167100E+00
12.000	0.289500E+00	0.352100E+00	0.134170E+01	0.203090E+01	0.107030E+01	-0.114840E+01	0.143200E+00
12.200	0.268000E+00	0.337900E+00	0.139530E+01	0.203990E+01	0.106480E+01	-0.107160E+01	0.123800E+00
12.400	0.248100E+00	0.323400E+00	0.145180E+01	0.204250E+01	0.106420E+01	-0.989400E+00	0.106300E+00
12.600	0.229700E+00	0.308700E+00	0.151070E+01	0.203830E+01	0.106860E+01	-0.901500E+00	0.891000E-01
12.800	0.212800E+00	0.293700E+00	0.157200E+01	0.202710E+01	0.107700E+01	-0.807500E+00	0.718000E-01
13.000	0.197200E+00	0.278800E+00	0.163510E+01	0.200910E+01	0.108730E+01	-0.708100E+00	0.539000E-01
13.200	0.182900E+00	0.263900E+00	0.169970E+01	0.198460E+01	0.109640E+01	-0.605300E+00	0.354000E-01
13.400	0.169700E+00	0.249200E+00	0.176540E+01	0.195390E+01	0.110140E+01	-0.502400E+00	0.165000E-01
13.600	0.157500E+00	0.234900E+00	0.183190E+01	0.191750E+01	0.110040E+01	-0.403600E+00	-0.250000E-02
13.800	0.146300E+00	0.221000E+00	0.189860E+01	0.187560E+01	0.109280E+01	-0.311900E+00	-0.211000E-01
14.000	0.136000E+00	0.207700E+00	0.196510E+01	0.182860E+01	0.107950E+01	-0.229800E+00	-0.391000E-01
14.200	0.126500E+00	0.194900E+00	0.203100E+01	0.177690E+01	0.106200E+01	-0.157500E+00	-0.557000E-01
14.400	0.117700E+00	0.182800E+00	0.209590E+01	0.172100E+01	0.104170E+01	-0.943000E-01	-0.706000E-01
14.600	0.109600E+00	0.171400E+00	0.215940E+01	0.166120E+01	0.101980E+01	-0.388000E-01	-0.833000E-01
14.800	0.102200E+00	0.160700E+00	0.222100E+01	0.159810E+01	0.997200E+00	0.105000E-01	-0.932000E-01
15.000	0.953000E-01	0.150700E+00	0.228040E+01	0.153220E+01	0.974600E+00	0.552000E-01	-0.999000E-01
15.200	0.889000E-01	0.141300E+00	0.233730E+01	0.146420E+01	0.952600E+00	0.970000E-01	-0.102800E+00
15.400	0.831000E-01	0.132600E+00	0.239150E+01	0.139420E+01	0.930400E+00	0.136800E+00	-0.995000E-01
15.600	0.776000E-01	0.124500E+00	0.244270E+01	0.132320E+01	0.908800E+00	0.175800E+00	-0.878000E-01
15.800	0.726000E-01	0.116900E+00	0.249080E+01	0.125160E+01	0.887700E+00	0.214000E+00	-0.627000E-01
16.000	0.680000E-01	0.110000E+00	0.253570E+01	0.117990E+01	0.867000E+00	0.248200E+00	-0.167000E-01
16.200	0.637000E-01	0.103500E+00	0.257750E+01	0.110870E+01	0.846700E+00	0.269000E+00	0.523000E-01
16.400	0.597000E-01	0.975000E-01	0.261610E+01	0.103850E+01	0.826500E+00	0.270600E+00	0.127700E+00
16.600	0.560000E-01	0.919000E-01	0.265180E+01	0.969700E+00	0.806500E+00	0.261500E+00	0.191700E+00
16.800	0.526000E-01	0.868000E-01	0.268440E+01	0.902700E+00	0.786600E+00	0.251100E+00	0.243500E+00
17.000	0.495000E-01	0.820000E-01	0.271440E+01	0.837800E+00	0.766500E+00	0.241800E+00	0.287500E+00
17.200	0.465000E-01	0.776000E-01	0.274170E+01	0.775400E+00	0.746300E+00	0.233800E+00	0.327000E+00
17.400	0.438000E-01	0.735000E-01	0.276660E+01	0.715600E+00	0.725700E+00	0.226800E+00	0.363900E+00
17.600	0.413000E-01	0.697000E-01	0.278940E+01	0.658800E+00	0.704900E+00	0.220300E+00	0.399100E+00
17.800	0.389000E-01	0.662000E-01	0.281000E+01	0.605000E+00	0.683700E+00	0.214200E+00	0.433100E+00
18.000	0.367000E-01	0.629000E-01	0.282880E+01	0.554400E+00	0.662200E+00	0.208400E+00	0.466000E+00
18.200	0.347000E-01	0.598000E-01	0.284590E+01	0.507000E+00	0.640400E+00	0.202800E+00	0.497800E+00
18.400	0.328000E-01	0.570000E-01	0.286150E+01	0.462900E+00	0.618400E+00	0.197300E+00	0.528300E+00
18.600	0.310000E-01	0.543000E-01	0.287570E+01	0.422100E+00	0.596200E+00	0.191900E+00	0.557300E+00

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3	18.800	0.294000E-01	0.518000E-01	0.288870E+01	0.384400E+00	0.573900E+00	0.186600E+00	0.584700E+00
4	19.000	0.278000E-01	0.495000E-01	0.290050E+01	0.349600E+00	0.550700E+00	0.180400E+00	0.608400E+00
5	19.200	0.264000E-01	0.473000E-01	0.291130E+01	0.318000E+00	0.528500E+00	0.175200E+00	0.631700E+00
6	19.400	0.250000E-01	0.453000E-01	0.292130E+01	0.289200E+00	0.506700E+00	0.170200E+00	0.652800E+00
7	19.600	0.237000E-01	0.433000E-01	0.293040E+01	0.263000E+00	0.485200E+00	0.165400E+00	0.671700E+00
8	19.800	0.225000E-01	0.415000E-01	0.293870E+01	0.239300E+00	0.464600E+00	0.160900E+00	0.687700E+00
9	20.000	0.214000E-01	0.398000E-01	0.294640E+01	0.217900E+00	0.444100E+00	0.156400E+00	0.702000E+00
10	20.200	0.203000E-01	0.382000E-01	0.295360E+01	0.198500E+00	0.424300E+00	0.152000E+00	0.714000E+00
11	20.400	0.193000E-01	0.367000E-01	0.296020E+01	0.181000E+00	0.405100E+00	0.147900E+00	0.723700E+00
12	20.600	0.184000E-01	0.353000E-01	0.296630E+01	0.165200E+00	0.386600E+00	0.143900E+00	0.731300E+00
13	20.800	0.175000E-01	0.339000E-01	0.297200E+01	0.151000E+00	0.368800E+00	0.140100E+00	0.736900E+00
14	21.200	0.158000E-01	0.314000E-01	0.298220E+01	0.126700E+00	0.335400E+00	0.133000E+00	0.741800E+00
15	21.400	0.151000E-01	0.303000E-01	0.298680E+01	0.116300E+00	0.319800E+00	0.129800E+00	0.740300E+00
16	21.600	0.143000E-01	0.291000E-01	0.299110E+01	0.107000E+00	0.304900E+00	0.126700E+00	0.732800E+00
17	22.000	0.130000E-01	0.271000E-01	0.299890E+01	0.909000E-01	0.277200E+00	0.121100E+00	0.7301200E+00
18	22.200	0.123000E-01	0.261000E-01	0.300250E+01	0.840000E-01	0.264300E+00	0.118600E+00	0.723700E+00
19	22.400	0.117000E-01	0.252000E-01	0.300590E+01	0.778000E-01	0.252000E+00	0.116200E+00	0.581000E-01
20	23.600	0.870000E-02	0.206000E-01	0.302230E+01	0.510000E-01	0.190400E+00	0.105400E+00	0.250000E-02
21	24.000	0.780000E-02	0.192000E-01	0.302670E+01	0.449000E-01	0.173600E+00	0.102700E+00	0.190000E-02
22	24.200	0.740000E-02	0.186000E-01	0.302870E+01	0.422000E-01	0.165800E+00	0.101500E+00	0.350000E-02
23	24.400	0.700000E-02	0.180000E-01	0.303070E+01	0.398000E-01	0.158400E+00	0.100300E+00	0.480000E-02
24	24.800	0.630000E-02	0.169000E-01	0.303430E+01	0.355000E-01	0.144700E+00	0.982000E-01	0.670000E-02
25	25.000	0.600000E-02	0.164000E-01	0.303590E+01	0.336000E-01	0.138400E+00	0.972000E-01	0.730000E-02
26	25.400	0.530000E-02	0.154000E-01	0.303900E+01	0.302000E-01	0.126600E+00	0.951000E-01	0.850000E-02
27	25.600	0.510000E-02	0.149000E-01	0.304050E+01	0.287000E-01	0.121300E+00	0.941000E-01	0.870000E-02
28	25.800	0.480000E-02	0.145000E-01	0.304190E+01	0.273000E-01	0.116200E+00	0.931000E-01	0.880000E-02
29	26.000	0.450000E-02	0.141000E-01	0.304320E+01	0.261000E-01	0.111400E+00	0.921000E-01	0.880000E-02
30	26.400	0.400000E-02	0.133000E-01	0.304570E+01	0.237000E-01	0.102700E+00	0.899000E-01	0.850000E-02
31	26.600	0.380000E-02	0.129000E-01	0.304690E+01	0.227000E-01	0.988000E-01	0.888000E-01	0.830000E-02
32	26.800	0.360000E-02	0.125000E-01	0.304800E+01	0.217000E-01	0.951000E-01	0.876000E-01	0.790000E-02
33	27.000	0.340000E-02	0.121000E-01	0.304910E+01	0.208000E-01	0.916000E-01	0.862000E-01	0.790000E-02
34	27.200	0.320000E-02	0.118000E-01	0.305020E+01	0.199000E-01	0.884000E-01	0.850000E-01	0.740000E-02
35	27.400	0.300000E-02	0.114000E-01	0.305120E+01	0.191000E-01	0.854000E-01	0.836000E-01	0.700000E-02
36	27.600	0.280000E-02	0.111000E-01	0.305220E+01	0.183000E-01	0.826000E-01	0.823000E-01	0.640000E-02
37	28.000	0.250000E-02	0.105000E-01	0.305410E+01	0.169000E-01	0.777000E-01	0.796000E-01	0.510000E-02
38	28.200	0.230000E-02	0.102000E-01	0.305490E+01	0.162000E-01	0.755000E-01	0.781000E-01	0.440000E-02
39	28.600	0.200000E-02	0.970000E-02	0.305660E+01	0.150000E-01	0.716000E-01	0.752000E-01	0.290000E-02
40	28.800	0.190000E-02	0.940000E-02	0.305750E+01	0.144000E-01	0.699000E-01	0.737000E-01	0.220000E-02
41	29.400	0.160000E-02	0.870000E-02	0.305980E+01	0.129000E-01	0.655000E-01	0.692000E-01	0.400000E-03
42	30.200	0.120000E-02	0.780000E-02	0.306250E+01	0.112000E-01	0.611000E-01	0.630000E-01	0.330000E-02
43	30.400	0.110000E-02	0.760000E-02	0.306320E+01	0.108000E-01	0.602000E-01	0.614000E-01	0.400000E-02
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Table 7: $(3)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	3-1	3-2	3-3	3-4	3-5	3-6	3-7
3.000	0.205030E+01	-0.117120E+01	-0.631600E+00	0.545640E+01	-0.186500E+01	-0.138700E+01	-0.242700E+00
3.200	0.201650E+01	-0.128470E+01	-0.636400E+00	0.538260E+01	-0.187580E+01	-0.140470E+01	-0.234100E+00
3.400	0.200230E+01	-0.135900E+01	-0.662300E+00	0.530750E+01	-0.180350E+01	-0.143120E+01	-0.241400E+00
3.800	0.202910E+01	-0.137990E+01	-0.834700E+00	0.507290E+01	-0.150020E+01	-0.157000E+01	-0.312800E+00
4.000	0.205890E+01	-0.131250E+01	-0.117360E+01	0.482530E+01	-0.131210E+01	-0.170380E+01	-0.368300E+00
4.200	0.208400E+01	-0.119110E+01	-0.309930E+01	0.357220E+01	-0.113590E+01	-0.187870E+01	-0.423800E+00
4.400	0.209470E+01	-0.103500E+01	-0.441210E+01	0.629900E+00	-0.100100E+01	-0.206990E+01	-0.468800E+00
4.600	0.209460E+01	-0.877600E+00	-0.420270E+01	0.133000E+00	-0.925700E+00	-0.224510E+01	-0.499500E+00
4.800	0.209580E+01	-0.742800E+00	-0.401730E+01	0.482000E-01	-0.911100E+00	-0.238680E+01	-0.519300E+00
5.200	0.212740E+01	-0.551000E+00	-0.384350E+01	0.287400E+00	-0.102420E+01	-0.256150E+01	-0.543900E+00
5.400	0.215770E+01	-0.481800E+00	-0.382790E+01	0.432100E+00	-0.112830E+01	-0.259490E+01	-0.553100E+00
5.600	0.219490E+01	-0.422400E+00	-0.383930E+01	0.619300E+00	-0.124590E+01	-0.258910E+01	-0.561700E+00
5.800	0.223650E+01	-0.369000E+00	-0.386630E+01	0.846400E+00	-0.136490E+01	-0.254110E+01	-0.570300E+00
6.000	0.228070E+01	-0.319100E+00	-0.390070E+01	0.107620E+01	-0.149040E+01	-0.245190E+01	-0.578900E+00
6.200	0.232620E+01	-0.271200E+00	-0.393710E+01	0.125100E+01	-0.164650E+01	-0.233100E+01	-0.587600E+00
6.400	0.237150E+01	-0.224500E+00	-0.397120E+01	0.133910E+01	-0.184040E+01	-0.219530E+01	-0.596300E+00
6.600	0.241590E+01	-0.178500E+00	-0.399980E+01	0.135520E+01	-0.204470E+01	-0.206220E+01	-0.605000E+00
6.800	0.245820E+01	-0.132900E+00	-0.401990E+01	0.133820E+01	-0.222720E+01	-0.194440E+01	-0.613100E+00
7.000	0.249770E+01	-0.875000E-01	-0.402810E+01	0.132360E+01	-0.237270E+01	-0.184890E+01	-0.620300E+00
7.200	0.253370E+01	-0.420000E-01	-0.401930E+01	0.133570E+01	-0.248100E+01	-0.177740E+01	-0.624700E+00
7.400	0.256530E+01	0.370000E-02	-0.398680E+01	0.139620E+01	-0.255680E+01	-0.172980E+01	-0.628500E+00
7.600	0.259160E+01	0.497000E-01	-0.391320E+01	0.153600E+01	-0.260590E+01	-0.170380E+01	-0.629500E+00
7.800	0.261170E+01	0.962000E-01	-0.375160E+01	0.182560E+01	-0.263260E+01	-0.169690E+01	-0.626500E+00
8.000	0.262460E+01	0.143100E+00	-0.333120E+01	0.243540E+01	-0.263970E+01	-0.170680E+01	-0.617900E+00
8.200	0.262880E+01	0.190500E+00	-0.221120E+01	0.341030E+01	-0.262860E+01	-0.173110E+01	-0.601000E+00
8.400	0.262290E+01	0.238300E+00	-0.955100E+00	0.386530E+01	-0.260000E+01	-0.176690E+01	-0.567600E+00
8.600	0.260460E+01	0.286400E+00	-0.321200E+00	0.386170E+01	-0.255310E+01	-0.181220E+01	-0.501700E+00
8.800	0.257110E+01	0.334300E+00	-0.570000E-02	0.373980E+01	-0.248700E+01	-0.186210E+01	-0.346800E+00
9.000	0.251880E+01	0.381500E+00	0.178000E+00	0.356650E+01	-0.240010E+01	-0.191220E+01	0.115000E-01
9.200	0.244300E+01	0.426800E+00	0.297000E+00	0.334970E+01	-0.229040E+01	-0.195610E+01	0.367300E+00
9.400	0.233860E+01	0.468400E+00	0.377400E+00	0.308800E+01	-0.215700E+01	-0.198440E+01	0.546200E+00
9.600	0.220120E+01	0.503800E+00	0.429500E+00	0.278140E+01	-0.200030E+01	-0.1987700E+01	0.620500E+00
9.800	0.203030E+01	0.530200E+00	0.458200E+00	0.243760E+01	-0.182500E+01	-0.195440E+01	0.622300E+00
10.000	0.183290E+01	0.545200E+00	0.467800E+00	0.207570E+01	-0.164100E+01	-0.188350E+01	0.565800E+00
10.200	0.162360E+01	0.548600E+00	0.463800E+00	0.172290E+01	-0.146220E+01	-0.178130E+01	0.459600E+00
10.400	0.141980E+01	0.542300E+00	0.453200E+00	0.140420E+01	-0.130200E+01	-0.166450E+01	0.297000E+00
10.600	0.123480E+01	0.529500E+00	0.441700E+00	0.113280E+01	-0.116800E+01	-0.153880E+01	-0.177000E-01
10.800	0.107440E+01	0.512800E+00	0.433100E+00	0.909500E+00	-0.106100E+01	-0.129240E+01	-0.528200E+00
11.000	0.938800E+00	0.494000E+00	0.428400E+00	0.727900E+00	-0.977400E+00	-0.875900E+00	-0.917400E+00
11.200	0.825300E+00	0.473900E+00	0.427300E+00	0.580300E+00	-0.911500E+00	-0.635600E+00	-0.966300E+00
11.400	0.730300E+00	0.453000E+00	0.429200E+00	0.459700E+00	-0.857800E+00	-0.501900E+00	-0.932700E+00
11.600	0.650400E+00	0.431400E+00	0.432900E+00	0.361000E+00	-0.811700E+00	-0.412200E+00	-0.882500E+00
11.800	0.582700E+00	0.409400E+00	0.437400E+00	0.280400E+00	-0.770600E+00	-0.343600E+00	-0.831000E+00
12.000	0.525000E+00	0.386900E+00	0.442100E+00	0.215100E+00	-0.732400E+00	-0.286800E+00	-0.782100E+00
12.200	0.475400E+00	0.364300E+00	0.446300E+00	0.162600E+00	-0.696100E+00	-0.237300E+00	-0.736600E+00
12.400	0.432600E+00	0.341700E+00	0.449500E+00	0.120900E+00	-0.661200E+00	-0.192500E+00	-0.694600E+00
12.600	0.395300E+00	0.319500E+00	0.451600E+00	0.885000E-01	-0.626900E+00	-0.151600E+00	-0.656100E+00
12.800	0.362700E+00	0.297900E+00	0.452300E+00	0.636000E-01	-0.593200E+00	-0.112800E+00	-0.620300E+00
13.000	0.334100E+00	0.277000E+00	0.451700E+00	0.450000E-01	-0.559700E+00	-0.773000E-01	-0.587300E+00
13.200	0.308900E+00	0.257000E+00	0.449700E+00	0.317000E-01	-0.526100E+00	-0.461000E-01	-0.556800E+00
13.400	0.286500E+00	0.238200E+00	0.446400E+00	0.226000E-01	-0.492700E+00	-0.207000E-01	-0.528900E+00
13.600	0.266600E+00	0.220500E+00	0.442000E+00	0.172000E-01	-0.460000E+00	-0.210000E-02	-0.503200E+00
13.800	0.248800E+00	0.204100E+00	0.436500E+00	0.145000E-01	-0.428700E+00	0.860000E-02	-0.480100E+00
14.000	0.232900E+00	0.188800E+00	0.430200E+00	0.143000E-01	-0.399200E+00	0.117000E-01	-0.459300E+00
14.200	0.218500E+00	0.174800E+00	0.423000E+00	0.159000E-01	-0.372100E+00	0.800000E-02	-0.440900E+00
14.400	0.205400E+00	0.161900E+00	0.415300E+00	0.190000E-01	-0.347500E+00	-0.150000E-02	-0.425100E+00
14.600	0.193600E+00	0.150100E+00	0.407000E+00	0.232000E-01	-0.325200E+00	-0.156000E-01	-0.412100E+00
14.800	0.182800E+00	0.139400E+00	0.398300E+00	0.282000E-01	-0.305000E+00	-0.329000E-01	-0.402000E+00
15.000	0.172900E+00	0.129600E+00	0.389300E+00	0.338000E-01	-0.286700E+00	-0.522000E-01	-0.395100E+00
15.200	0.163800E+00	0.120700E+00	0.380000E+00	0.396000E-01	-0.270100E+00	-0.714000E-01	-0.392200E+00
15.400	0.155500E+00	0.112500E+00	0.370600E+00	0.457000E-01	-0.254800E+00	-0.885000E-01	-0.394100E+00
15.600	0.147700E+00	0.105100E+00	0.361100E+00	0.517000E-01	-0.240600E+00	-0.992000E-01	-0.402600E+00
15.800	0.140500E+00	0.984000E-01	0.351500E+00	0.577000E-01	-0.227400E+00	-0.962000E-01	-0.419800E+00
16.000	0.133900E+00	0.923000E-01	0.342000E+00	0.634000E-01	-0.214900E+00	-0.684000E-01	-0.446700E+00
16.200	0.127600E+00	0.867000E-01	0.332600E+00	0.689000E-01	-0.203100E+00	-0.112000E-01	-0.478300E+00
16.400	0.121800E+00	0.815000E-01	0.323200E+00	0.741000E-01	-0.191900E+00	0.545000E-01	-0.506800E+00
16.600	0.116300E+00	0.769000E-01	0.314100E+00	0.791000E-01	-0.180600E+00	0.103200E+00	-0.535200E+00
16.800	0.111200E+00	0.726000E-01	0.305100E+00	0.834000E-01	-0.170300E+00	0.133800E+00	-0.569100E+00
17.000	0.106300E+00	0.686000E-01	0.296200E+00	0.873000E-01	-0.160300E+00	0.151800E+00	-0.609100E+00
17.200	0.101700E+00	0.650000E-01	0.287600E+00	0.907000E-01	-0.150700E+00	0.162500E+00	-0.654200E+00
17.400	0.974000E-01	0.617000E-01	0.279200E+00	0.936000E-01	-0.141400E+00	0.168800E+00	-0.703100E+00
17.600	0.934000E-01	0.586000E-01	0.271100E+00	0.961000E-01	-0.132500E+00	0.172200E+00	-0.755000E+00
17.800	0.895000E-01	0.558000E-01	0.263200E+00	0.980000E-01	-0.123800E+00	0.173800E+00	-0.809200E+00
18.000	0.858000E-01	0.531000E-01	0.255500E+00	0.995000E-01	-0.115600E+00	0.174200E+00	-0.864600E+00
18.200	0.824000E-01	0.507000E-01	0.248100E+00	0.100500E+00	-0.107800E+00	0.173800E+00	-0.921100E+00
18.400	0.791000E-01	0.484000E-01	0.240900E+00	0.101100E+00	-0.100300E+00	0.172700E+00	-0.978000E+00
18.600	0.759000E-01	0.462000E-01	0.233900E+00	0.101300E+00	-0.932000E-01	0.171200E+00	-0.103460E+01

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2								
3	18.800	0.729000E-01	0.443000E-01	0.227200E+00	0.101000E+00	-0.865000E-01	0.169400E+00	-0.109090E+01
4	19.000	0.701000E-01	0.424000E-01	0.220600E+00	0.100200E+00	-0.813000E-01	0.168600E+00	-0.114320E+01
5	19.200	0.674000E-01	0.406000E-01	0.214400E+00	0.994000E-01	-0.753000E-01	0.166200E+00	-0.119730E+01
6	19.400	0.648000E-01	0.390000E-01	0.208300E+00	0.983000E-01	-0.697000E-01	0.163700E+00	-0.124900E+01
7	19.600	0.623000E-01	0.374000E-01	0.202500E+00	0.969000E-01	-0.645000E-01	0.161100E+00	-0.129890E+01
8	19.800	0.600000E-01	0.360000E-01	0.196800E+00	0.953000E-01	-0.603000E-01	0.158800E+00	-0.134700E+01
9	20.000	0.578000E-01	0.346000E-01	0.191300E+00	0.936000E-01	-0.557000E-01	0.156100E+00	-0.139270E+01
10	20.200	0.556000E-01	0.333000E-01	0.186100E+00	0.918000E-01	-0.515000E-01	0.153400E+00	-0.143620E+01
11	20.400	0.536000E-01	0.321000E-01	0.181000E+00	0.899000E-01	-0.475000E-01	0.150600E+00	-0.147750E+01
12	20.600	0.516000E-01	0.309000E-01	0.176100E+00	0.879000E-01	-0.438000E-01	0.147800E+00	-0.151650E+01
13	20.800	0.498000E-01	0.298000E-01	0.171300E+00	0.859000E-01	-0.404000E-01	0.145000E+00	-0.155320E+01
14	21.200	0.463000E-01	0.277000E-01	0.162300E+00	0.817000E-01	-0.341000E-01	0.139500E+00	-0.161840E+01
15	21.400	0.446000E-01	0.267000E-01	0.158000E+00	0.796000E-01	-0.312000E-01	0.136700E+00	-0.164450E+01
16	21.600	0.431000E-01	0.258000E-01	0.153800E+00	0.775000E-01	-0.285000E-01	0.134000E+00	-0.165690E+01
17	22.000	0.402000E-01	0.241000E-01	0.145900E+00	0.733000E-01	-0.235000E-01	0.128600E+00	-0.168850E+01
18	22.200	0.388000E-01	0.233000E-01	0.142200E+00	0.713000E-01	-0.211000E-01	0.126000E+00	-0.172460E+01
19	22.400	0.375000E-01	0.225000E-01	0.138500E+00	0.693000E-01	-0.189000E-01	0.123400E+00	-0.174000E+01
20	23.600	0.307000E-01	0.185000E-01	0.119000E+00	0.582000E-01	-0.730000E-02	0.109200E+00	-0.146000E-01
21	24.000	0.288000E-01	0.173000E-01	0.113300E+00	0.549000E-01	-0.380000E-02	0.104800E+00	-0.880000E-02
22	24.200	0.279000E-01	0.168000E-01	0.110600E+00	0.533000E-01	-0.210000E-02	0.102700E+00	-0.690000E-02
23	24.400	0.270000E-01	0.162000E-01	0.107900E+00	0.518000E-01	0.400000E-03	0.100500E+00	-0.540000E-02
24	24.800	0.254000E-01	0.153000E-01	0.102900E+00	0.488000E-01	0.270000E-02	0.965000E-01	-0.320000E-02
25	25.000	0.246000E-01	0.148000E-01	0.100500E+00	0.475000E-01	0.420000E-02	0.945000E-01	-0.230000E-02
26	25.400	0.232000E-01	0.139000E-01	0.959000E-01	0.448000E-01	0.710000E-02	0.905000E-01	-0.110000E-02
27	25.600	0.225000E-01	0.135000E-01	0.937000E-01	0.436000E-01	0.840000E-02	0.886000E-01	-0.300000E-03
28	25.800	0.218000E-01	0.131000E-01	0.916000E-01	0.424000E-01	0.960000E-02	0.867000E-01	0.500000E-03
29	26.000	0.212000E-01	0.127000E-01	0.895000E-01	0.412000E-01	0.107000E-01	0.849000E-01	0.130000E-02
30	26.400	0.200000E-01	0.119000E-01	0.855000E-01	0.390000E-01	0.127000E-01	0.814000E-01	0.280000E-02
31	26.600	0.194000E-01	0.116000E-01	0.836000E-01	0.379000E-01	0.135000E-01	0.797000E-01	0.360000E-02
32	26.800	0.189000E-01	0.112000E-01	0.818000E-01	0.369000E-01	0.143000E-01	0.781000E-01	0.450000E-02
33	27.000	0.183000E-01	0.109000E-01	0.800000E-01	0.359000E-01	0.149000E-01	0.765000E-01	0.530000E-02
34	27.200	0.178000E-01	0.106000E-01	0.783000E-01	0.349000E-01	0.155000E-01	0.750000E-01	0.610000E-02
35	27.400	0.173000E-01	0.103000E-01	0.766000E-01	0.340000E-01	0.161000E-01	0.733000E-01	0.680000E-02
36	27.600	0.169000E-01	0.100000E-01	0.750000E-01	0.331000E-01	0.166000E-01	0.718000E-01	0.760000E-02
37	28.000	0.160000E-01	0.940000E-02	0.718000E-01	0.314000E-01	0.173000E-01	0.689000E-01	0.910000E-02
38	28.200	0.155000E-01	0.910000E-02	0.703000E-01	0.306000E-01	0.175000E-01	0.674000E-01	0.990000E-02
39	28.600	0.147000E-01	0.860000E-02	0.675000E-01	0.290000E-01	0.178000E-01	0.647000E-01	0.112000E-01
40	28.800	0.143000E-01	0.840000E-02	0.661000E-01	0.283000E-01	0.179000E-01	0.633000E-01	0.118000E-01
41	29.400	0.132000E-01	0.770000E-02	0.622000E-01	0.262000E-01	0.179000E-01	0.596000E-01	0.135000E-01
42	30.200	0.119000E-01	0.690000E-02	0.574000E-01	0.238000E-01	0.176000E-01	0.549000E-01	0.148000E-01
43	30.400	0.116000E-01	0.670000E-02	0.563000E-01	0.232000E-01	0.174000E-01	0.537000E-01	0.150000E-01
44	31.400	0.103000E-01	0.580000E-02	0.511000E-01	0.206000E-01	0.165000E-01	0.484000E-01	0.153000E-01
45	31.600	0.100000E-01	0.570000E-02	0.502000E-01	0.201000E-01	0.162000E-01	0.474000E-01	0.152000E-01
46	31.800	0.980000E-02	0.550000E-02	0.492000E-01	0.197000E-01	0.160000E-01	0.465000E-01	0.151000E-01
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Table 8: $(4)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	4-1	4-2	4-3	4-4	4-5	4-6	4-7
3.000	-0.336000E-01	-0.128000E+01	0.503500E+00	-0.874800E+00	-0.511790E+01	0.154720E+01	-0.103000E+01
3.200	-0.679000E-01	-0.137510E+01	0.535600E+00	-0.821500E+00	-0.521490E+01	0.144240E+01	-0.113070E+01
3.400	-0.101400E+00	-0.148080E+01	0.564300E+00	-0.702300E+00	-0.532540E+01	0.134860E+01	-0.116590E+01
3.800	-0.171800E+00	-0.172690E+01	0.617500E+00	-0.317400E+00	-0.556660E+01	0.117310E+01	-0.109640E+01
4.000	-0.209500E+00	-0.186290E+01	0.656000E+00	-0.997000E-01	-0.567780E+01	0.110090E+01	-0.100930E+01
4.200	-0.248100E+00	-0.199960E+01	0.731500E+00	0.166500E+00	-0.576690E+01	0.105440E+01	-0.899300E+00
4.400	-0.286000E+00	-0.212950E+01	0.742700E+00	0.567700E+00	-0.582440E+01	0.104730E+01	-0.778600E+00
4.600	-0.322100E+00	-0.224550E+01	0.966900E+00	0.649900E+00	-0.584530E+01	0.108860E+01	-0.655700E+00
4.800	-0.356100E+00	-0.234340E+01	0.120900E+01	0.718400E+00	-0.582700E+01	0.118380E+01	-0.540000E+00
5.200	-0.419400E+00	-0.247920E+01	0.164080E+01	0.913900E+00	-0.566800E+01	0.154020E+01	-0.337600E+00
5.400	-0.450300E+00	-0.251870E+01	0.182600E+01	0.105260E+01	-0.551880E+01	0.179880E+01	-0.253300E+00
5.600	-0.481700E+00	-0.254150E+01	0.199410E+01	0.120400E+01	-0.531760E+01	0.210250E+01	-0.180300E+00
5.800	-0.514200E+00	-0.254980E+01	0.214860E+01	0.131750E+01	-0.507270E+01	0.243570E+01	-0.118400E+00
6.000	-0.548600E+00	-0.254550E+01	0.229250E+01	0.131210E+01	-0.481190E+01	0.277700E+01	-0.665000E-01
6.200	-0.585100E+00	-0.253030E+01	0.242870E+01	0.114400E+01	-0.455800E+01	0.310420E+01	-0.242100E-01
6.400	-0.624300E+00	-0.250570E+01	0.255940E+01	0.865300E+00	-0.430470E+01	0.339580E+01	0.920000E-02
6.600	-0.666400E+00	-0.247270E+01	0.268700E+01	0.576100E+00	-0.404260E+01	0.363240E+01	0.362000E-01
6.800	-0.711900E+00	-0.243230E+01	0.281310E+01	0.345700E+00	-0.378270E+01	0.380280E+01	0.544000E-01
7.000	-0.761300E+00	-0.238510E+01	0.293940E+01	0.196500E+00	-0.354490E+01	0.390820E+01	0.665000E-01
7.200	-0.815000E+00	-0.233170E+01	0.306710E+01	0.127100E+00	-0.334200E+01	0.395630E+01	0.728000E-01
7.400	-0.873700E+00	-0.227200E+01	0.319680E+01	0.137400E+00	-0.317740E+01	0.395760E+01	0.752000E-01
7.600	-0.937900E+00	-0.220630E+01	0.332510E+01	0.246400E+00	-0.304950E+01	0.391990E+01	0.745000E-01
7.800	-0.100840E+01	-0.213470E+01	0.343390E+01	0.524500E+00	-0.295410E+01	0.384910E+01	0.717000E-01
8.000	-0.108630E+01	-0.205690E+01	0.342220E+01	0.117820E+01	-0.288650E+01	0.374860E+01	0.695000E-01
8.200	-0.117260E+01	-0.197270E+01	0.288740E+01	0.242880E+01	-0.284180E+01	0.361940E+01	0.705000E-01
8.400	-0.126910E+01	-0.188110E+01	0.200170E+01	0.338930E+01	-0.281600E+01	0.345980E+01	0.844000E-01
8.600	-0.137780E+01	-0.178070E+01	0.147820E+01	0.383600E+01	-0.280400E+01	0.326470E+01	0.133500E+00
8.800	-0.150180E+01	-0.166870E+01	0.118050E+01	0.413320E+01	-0.280050E+01	0.302480E+01	0.288100E+00
9.000	-0.164450E+01	-0.154000E+01	0.965600E+00	0.439330E+01	-0.279750E+01	0.272190E+01	0.671100E+00
9.200	-0.180910E+01	-0.138490E+01	0.766500E+00	0.463920E+01	-0.278130E+01	0.232440E+01	0.108060E+01
9.400	-0.199280E+01	-0.118750E+01	0.543400E+00	0.484990E+01	-0.272650E+01	0.178520E+01	0.138900E+01
9.600	-0.217390E+01	-0.933700E+00	0.274400E+00	0.495450E+01	-0.259580E+01	0.106770E+01	0.163610E+01
9.800	-0.231210E+01	-0.641900E+00	-0.198000E-01	0.487330E+01	-0.237630E+01	0.231800E+00	0.179580E+01
10.000	-0.239190E+01	-0.370800E+00	-0.282100E+00	0.463800E+01	-0.212380E+01	0.560900E+00	0.185550E+01
10.200	-0.243090E+01	-0.158700E+00	-0.483000E+00	0.434920E+01	-0.189830E+01	0.122100E+01	0.183260E+01
10.400	-0.244130E+01	0.340000E-02	-0.629900E+00	0.405420E+01	-0.171220E+01	0.177970E+01	0.170560E+01
10.600	-0.242560E+01	0.108600E+00	-0.737800E+00	0.375550E+01	-0.155990E+01	0.232920E+01	0.132250E+01
10.800	-0.238540E+01	0.188900E+00	-0.817700E+00	0.344750E+01	-0.143820E+01	0.282720E+01	0.183900E+00
11.000	-0.232330E+01	0.245700E+00	-0.876700E+00	0.312740E+01	-0.134550E+01	0.270940E+01	0.112010E+01
11.200	-0.224200E+01	0.284200E+00	-0.918700E+00	0.279620E+01	-0.127710E+01	0.245650E+01	0.168690E+01
11.400	-0.214320E+01	0.308500E+00	-0.946400E+00	0.245550E+01	-0.122370E+01	0.224760E+01	0.195970E+01
11.600	-0.202770E+01	0.321500E+00	-0.960900E+00	0.210780E+01	-0.117410E+01	0.204530E+01	0.211560E+01
11.800	-0.189480E+01	0.325600E+00	-0.963000E+00	0.175450E+01	-0.111660E+01	0.182760E+01	0.220880E+01
12.000	-0.174330E+01	0.323100E+00	-0.952900E+00	0.139570E+01	-0.104020E+01	0.158390E+01	0.226030E+01
12.200	-0.157110E+01	0.315500E+00	-0.930500E+00	0.103050E+01	-0.934600E+00	0.131010E+01	0.227910E+01
12.400	-0.137630E+01	0.304700E+00	-0.895700E+00	0.657800E+00	-0.789200E+00	0.100700E+01	0.226990E+01
12.600	-0.115800E+01	0.291800E+00	-0.848400E+00	0.277600E+00	-0.594600E+00	0.681800E+00	0.223430E+01
12.800	-0.917900E+00	0.277900E+00	-0.789300E+00	0.106200E+00	-0.342700E+00	0.347800E+00	0.217270E+01
13.000	-0.661000E+00	0.263500E+00	-0.719700E+00	0.486700E+00	-0.328000E-01	-0.266000E-01	0.208630E+01
13.200	-0.396200E+00	0.249200E+00	-0.642200E+00	0.853500E+00	0.326300E+00	-0.256700E+00	0.197780E+01
13.400	-0.134600E+00	0.235400E+00	-0.560500E+00	0.119570E+01	0.715800E+00	-0.481700E+00	0.185240E+01
13.600	0.113600E+00	0.222200E+00	-0.478600E+00	0.150520E+01	0.111070E+01	-0.638500E+00	0.171700E+01
13.800	0.340900E+00	0.209900E+00	-0.399800E+00	0.177850E+01	0.148750E+01	-0.730700E+00	0.157840E+01
14.000	0.543800E+00	0.198600E+00	-0.326600E+00	0.201700E+01	0.182930E+01	-0.770800E+00	0.144200E+01
14.200	0.722100E+00	0.188500E+00	-0.260600E+00	0.222520E+01	0.212790E+01	-0.774200E+00	0.131170E+01
14.400	0.877500E+00	0.179400E+00	-0.201900E+00	0.240880E+01	0.238180E+01	-0.754900E+00	0.118910E+01
14.600	0.101270E+01	0.171400E+00	-0.150800E+00	0.257350E+01	0.259340E+01	-0.723600E+00	0.107500E+01
14.800	0.113080E+01	0.164400E+00	-0.106600E+00	0.272450E+01	0.276700E+01	-0.687700E+00	0.968900E+00
15.000	0.123450E+01	0.158300E+00	-0.690000E-01	0.286610E+01	0.290720E+01	-0.652500E+00	0.869400E+00
15.200	0.132620E+01	0.152900E+00	-0.373000E-01	0.300130E+01	0.301870E+01	-0.621200E+00	0.774200E+00
15.400	0.140790E+01	0.148100E+00	-0.107000E-01	0.313310E+01	0.310410E+01	-0.597000E+00	0.681400E+00
15.600	0.148140E+01	0.143900E+00	0.112000E-01	0.326340E+01	0.316680E+01	-0.582700E+00	0.585900E+00
15.800	0.154800E+01	0.140100E+00	0.290000E-01	0.339330E+01	0.320920E+01	-0.580500E+00	0.479900E+00
16.000	0.160890E+01	0.136700E+00	0.433000E-01	0.352380E+01	0.323300E+01	-0.587700E+00	0.353800E+00
16.200	0.166500E+01	0.133600E+00	0.546000E-01	0.365520E+01	0.323990E+01	-0.587700E+00	0.210600E+00
16.400	0.171690E+01	0.137000E+00	0.633000E-01	0.378790E+01	0.323080E+01	-0.560800E+00	0.860000E-01
16.600	0.176530E+01	0.128000E+00	0.699000E-01	0.392190E+01	0.320650E+01	-0.515500E+00	0.720000E-02
16.800	0.181070E+01	0.125500E+00	0.746000E-01	0.405640E+01	0.316890E+01	-0.465900E+00	-0.333000E-01
17.000	0.185340E+01	0.123100E+00	0.777000E-01	0.419110E+01	0.311840E+01	-0.419100E+00	-0.514000E-01
17.200	0.189380E+01	0.120800E+00	0.796000E-01	0.432540E+01	0.305600E+01	-0.376400E+00	-0.571000E-01
17.400	0.193210E+01	0.118600E+00	0.805000E-01	0.445840E+01	0.298290E+01	-0.337600E+00	-0.560000E-01
17.600	0.196860E+01	0.116400E+00	0.805000E-01	0.458920E+01	0.290010E+01	-0.302100E+00	-0.509000E-01
17.800	0.200330E+01	0.114300E+00	0.798000E-01	0.471700E+01	0.280890E+01	-0.269600E+00	-0.438000E-01
18.000	0.203660E+01	0.112200E+00	0.787000E-01	0.484090E+01	0.271080E+01	-0.239700E+00	-0.354000E-01
18.200	0.206840E+01	0.110100E+00	0.771000E-01	0.496020E+01	0.260730E+01	-0.212000E+00	-0.265000E-01
18.400	0.209890E+01	0.108100E+00	0.751000E-01	0.507430E+01	0.249980E+01	-0.186300E+00	-0.176000E-01
18.600	0.212820E+01	0.106100E+00	0.730000E-01	0.518270E+01	0.238960E+01	-0.162500E+00	-0.870000E-02

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3	18.800	0.215630E+01	0.104100E+00	0.706000E-01	0.528500E+01	0.227830E+01	-0.140200E+00	0.200000E-03	
4	19.000	0.218330E+01	0.102100E+00	0.681000E-01	0.538100E+01	0.216740E+01	-0.119000E+00	0.870000E-02	
5	19.200	0.220920E+01	0.100200E+00	0.655000E-01	0.547100E+01	0.205710E+01	-0.997000E-01	0.164000E-01	
6	19.400	0.223410E+01	0.982000E-01	0.628000E-01	0.555480E+01	0.194870E+01	-0.817000E-01	0.234000E-01	
7	19.600	0.225810E+01	0.963000E-01	0.602000E-01	0.563260E+01	0.184320E+01	-0.648000E-01	0.300000E-01	
8	19.800	0.228110E+01	0.944000E-01	0.575000E-01	0.570460E+01	0.174090E+01	-0.489000E-01	0.361000E-01	
9	20.000	0.230310E+01	0.925000E-01	0.548000E-01	0.577130E+01	0.164250E+01	-0.341000E-01	0.420000E-01	
10	20.200	0.232430E+01	0.906000E-01	0.522000E-01	0.583290E+01	0.154830E+01	-0.203000E-01	0.479000E-01	
11	20.400	0.234460E+01	0.887000E-01	0.496000E-01	0.588970E+01	0.145830E+01	-0.730000E-02	0.540000E-01	
12	20.600	0.236410E+01	0.869000E-01	0.471000E-01	0.594210E+01	0.137270E+01	0.480000E-02	0.607000E-01	
13	20.800	0.238270E+01	0.850000E-01	0.447000E-01	0.599050E+01	0.129150E+01	0.162000E-01	0.685000E-01	
14	21.200	0.241760E+01	0.815000E-01	0.400000E-01	0.607630E+01	0.114210E+01	0.367000E-01	0.934000E-01	
15	21.400	0.243400E+01	0.797000E-01	0.377000E-01	0.611430E+01	0.107350E+01	0.460000E-01	0.118300E+00	
16	21.600	0.244960E+01	0.780000E-01	0.356000E-01	0.614940E+01	0.100900E+01	0.546000E-01	0.171100E+00	
17	22.000	0.247870E+01	0.746000E-01	0.316000E-01	0.621200E+01	0.890900E+00	0.702000E-01	0.804500E+00	
18	22.200	0.249220E+01	0.730000E-01	0.297000E-01	0.623990E+01	0.837000E+00	0.771000E-01	0.866000E+00	
19	22.400	0.250510E+01	0.714000E-01	0.279000E-01	0.626570E+01	0.786300E+00	0.835000E-01	0.868600E+00	
20	23.600	0.257050E+01	0.624000E-01	0.188000E-01	0.638640E+01	0.538900E+00	0.111500E+00	0.834600E+00	
21	24.000	0.258830E+01	0.597000E-01	0.164000E-01	0.641630E+01	0.474300E+00	0.117100E+00	0.820200E+00	
22	24.200	0.259650E+01	0.583000E-01	0.153000E-01	0.642990E+01	0.444800E+00	0.119100E+00	0.812800E+00	
23	24.400	0.260430E+01	0.571000E-01	0.142000E-01	0.644250E+01	0.417100E+00	0.120700E+00	0.805600E+00	
24	24.800	0.261870E+01	0.546000E-01	0.123000E-01	0.646530E+01	0.366200E+00	0.122400E+00	0.791300E+00	
25	25.000	0.262540E+01	0.534000E-01	0.114000E-01	0.647570E+01	0.342900E+00	0.122500E+00	0.784400E+00	
26	25.400	0.263770E+01	0.511000E-01	0.980000E-02	0.649440E+01	0.300500E+00	0.121400E+00	0.771600E+00	
27	25.600	0.264340E+01	0.499000E-01	0.910000E-02	0.650290E+01	0.281200E+00	0.120200E+00	0.765600E+00	
28	25.800	0.264880E+01	0.489000E-01	0.840000E-02	0.651080E+01	0.263100E+00	0.118500E+00	0.760100E+00	
29	26.000	0.265390E+01	0.478000E-01	0.780000E-02	0.651830E+01	0.246100E+00	0.116400E+00	0.754900E+00	
30	26.400	0.266340E+01	0.458000E-01	0.670000E-02	0.653190E+01	0.215400E+00	0.111300E+00	0.745800E+00	
31	26.600	0.266780E+01	0.448000E-01	0.620000E-02	0.653810E+01	0.201600E+00	0.108300E+00	0.741900E+00	
32	26.800	0.267200E+01	0.439000E-01	0.570000E-02	0.654390E+01	0.188700E+00	0.105000E+00	0.738400E+00	
33	27.000	0.267590E+01	0.429000E-01	0.520000E-02	0.654940E+01	0.176700E+00	0.101600E+00	0.735500E+00	
34	27.200	0.267970E+01	0.420000E-01	0.480000E-02	0.655460E+01	0.165600E+00	0.980000E-01	0.732800E+00	
35	27.400	0.268320E+01	0.412000E-01	0.450000E-02	0.655950E+01	0.155300E+00	0.943000E-01	0.730500E+00	
36	27.600	0.268660E+01	0.403000E-01	0.410000E-02	0.656410E+01	0.145700E+00	0.904000E-01	0.728500E+00	
37	28.000	0.269290E+01	0.386000E-01	0.350000E-02	0.657250E+01	0.128500E+00	0.826000E-01	0.725500E+00	
38	28.200	0.269580E+01	0.379000E-01	0.320000E-02	0.657640E+01	0.120900E+00	0.788000E-01	0.724400E+00	
39	28.600	0.270110E+01	0.363000E-01	0.270000E-02	0.658350E+01	0.107300E+00	0.711000E-01	0.723100E+00	
40	28.800	0.270360E+01	0.356000E-01	0.250000E-02	0.658670E+01	0.101300E+00	0.674000E-01	0.722700E+00	
41	29.400	0.271040E+01	0.335000E-01	0.200000E-02	0.659560E+01	0.856000E-01	0.570000E-01	0.722500E+00	
42	30.200	0.271800E+01	0.310000E-01	0.150000E-02	0.660540E+01	0.697000E-01	0.451000E-01	0.723900E+00	
43	30.400	0.271970E+01	0.304000E-01	0.140000E-02	0.660760E+01	0.663000E-01	0.425000E-01	0.724400E+00	
44	31.400	0.272700E+01	0.276000E-01	0.100000E-02	0.661700E+01	0.529000E-01	0.316000E-01	0.727200E+00	
45	31.600	0.272830E+01	0.271000E-01	0.100000E-02	0.661860E+01	0.507000E-01	0.299000E-01	0.727900E+00	
46	31.800	0.272960E+01	0.266000E-01	0.900000E-03	0.662020E+01	0.487000E-01	0.282000E-01	0.728500E+00	
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The following tables display the dipole moment functions between the three lowest Π states with the seven lowest Π states of NaK, for singlet (Tables 1 to 3) and triplet (Tables 4 to 6) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 2.54158059 Debye. All states are identified with their number with increasing energy. When both indexes are equal, the function corresponds to the permanent dipole moment.

Table 1: (1) $^1\Pi$ -(1-7) $^1\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	-0.306400E+00	-0.756600E+00	0.365400E+00	0.176060E+01	-0.207220E+01	0.689800E+00	0.392400E+00
3.200	-0.357100E+00	-0.749100E+00	0.651200E+00	0.205170E+01	-0.177630E+01	0.715200E+00	0.464500E+00
3.400	-0.378300E+00	-0.785000E+00	0.827000E+00	0.224220E+01	-0.151500E+01	0.719600E+00	0.528300E+00
3.800	-0.344400E+00	-0.980900E+00	0.936000E+00	0.251280E+01	-0.103390E+01	0.714300E+00	0.655200E+00
4.000	-0.293000E+00	-0.112430E+01	0.906700E+00	0.260780E+01	-0.800600E+00	0.722200E+00	0.724800E+00
4.200	-0.224400E+00	-0.128420E+01	0.854900E+00	0.266540E+01	-0.580400E+00	0.740700E+00	0.801200E+00
4.400	-0.144400E+00	-0.145030E+01	0.806600E+00	0.268020E+01	-0.390200E+00	0.766100E+00	0.885100E+00
4.600	-0.583000E-01	-0.161370E+01	0.779800E+00	0.265720E+01	-0.245500E+00	0.791600E+00	0.971600E+00
4.800	0.300000E-01	-0.176800E+01	0.780600E+00	0.260980E+01	-0.154000E+00	0.811200E+00	0.105460E+01
5.200	0.206100E+00	-0.202110E+01	0.858500E+00	0.249900E+01	-0.104400E+00	0.835700E+00	0.117330E+01
5.400	0.293400E+00	-0.211610E+01	0.927800E+00	0.245520E+01	-0.121600E+00	0.850900E+00	0.119780E+01
5.600	0.380800E+00	-0.218800E+01	0.101420E+01	0.242490E+01	-0.151400E+00	0.874900E+00	0.119860E+01
5.800	0.469100E+00	-0.223640E+01	0.111780E+01	0.240750E+01	-0.185500E+00	0.909700E+00	0.117750E+01
6.000	0.558900E+00	-0.226110E+01	0.124000E+01	0.240030E+01	-0.218000E+00	0.954400E+00	0.113630E+01
6.200	0.650400E+00	-0.226210E+01	0.138380E+01	0.239770E+01	-0.245000E+00	0.100650E+01	0.107540E+01
6.400	0.743300E+00	-0.223920E+01	0.155290E+01	0.239170E+01	-0.264100E+00	0.106160E+01	0.995800E+00
6.600	0.836800E+00	-0.219240E+01	0.175130E+01	0.237180E+01	-0.273900E+00	0.111400E+01	0.899200E+00
6.800	0.929500E+00	-0.212170E+01	0.198190E+01	0.232410E+01	-0.273600E+00	0.115800E+01	0.788300E+00
7.000	0.101920E+01	-0.202780E+01	0.224440E+01	0.223290E+01	-0.262700E+00	0.118880E+01	0.666800E+00
7.200	0.110260E+01	-0.191140E+01	0.253130E+01	0.208310E+01	-0.241000E+00	0.120020E+01	0.537500E+00
7.400	0.117740E+01	-0.177560E+01	0.282620E+01	0.186840E+01	-0.209100E+00	0.119850E+01	0.407200E+00
7.600	0.124000E+01	-0.162280E+01	0.310440E+01	0.159760E+01	-0.167400E+00	0.118120E+01	0.276400E+00
7.800	0.128740E+01	-0.145780E+01	0.334250E+01	0.129320E+01	-0.117200E+00	0.115050E+01	0.147400E+00
8.000	0.131740E+01	-0.128540E+01	0.352900E+01	0.984600E+00	-0.602000E-01	0.110960E+01	0.214000E-01
8.200	0.132950E+01	-0.111110E+01	0.366410E+01	0.693600E+00	0.130000E-02	0.106280E+01	-0.998000E-01
8.400	0.132250E+01	-0.940000E+00	0.375560E+01	0.430800E+00	0.659000E-01	0.101060E+01	-0.215100E+00
8.600	0.129850E+01	-0.777100E+00	0.381200E+01	0.198900E+00	0.130400E+00	0.958300E+00	-0.323200E+00
8.800	0.125940E+01	-0.625900E+00	0.384170E+01	0.350000E-02	0.193400E+00	0.906300E+00	-0.421200E+00
9.000	0.120830E+01	-0.489200E+00	0.385110E+01	0.178900E+00	0.252900E+00	0.857000E+00	-0.508300E+00
9.200	0.114810E+01	-0.368200E+00	0.384580E+01	0.330100E+00	0.306900E+00	0.813100E+00	-0.583700E+00
9.400	0.108180E+01	-0.263100E+00	0.383010E+01	0.459000E+00	0.354900E+00	0.773700E+00	-0.647200E+00
9.600	0.101200E+01	-0.173600E+00	0.380770E+01	0.567300E+00	0.396100E+00	0.739800E+00	-0.698800E+00
9.800	0.941000E+00	-0.985000E-01	0.378130E+01	0.656200E+00	0.430300E+00	0.712100E+00	-0.740700E+00
10.000	0.870600E+00	-0.364000E-01	0.375320E+01	0.726700E+00	0.458100E+00	0.689400E+00	-0.773400E+00
10.200	0.802000E+00	0.142000E-01	0.372480E+01	0.780000E+00	0.479800E+00	0.670700E+00	-0.800100E+00
10.400	0.736100E+00	0.549000E-01	0.369750E+01	0.817200E+00	0.496800E+00	0.654600E+00	-0.821300E+00
10.600	0.673800E+00	0.873000E-01	0.367170E+01	0.839700E+00	0.509800E+00	0.640900E+00	-0.840500E+00
10.800	0.615400E+00	0.112600E+00	0.364790E+01	0.848700E+00	0.519800E+00	0.627500E+00	-0.856600E+00
11.000	0.561000E+00	0.132100E+00	0.362610E+01	0.845900E+00	0.527700E+00	0.613700E+00	-0.871300E+00
11.200	0.510700E+00	0.146800E+00	0.360620E+01	0.832800E+00	0.534000E+00	0.598600E+00	-0.885000E+00
11.400	0.464500E+00	0.157600E+00	0.358810E+01	0.811200E+00	0.539100E+00	0.581600E+00	-0.898100E+00
11.600	0.422200E+00	0.165400E+00	0.357140E+01	0.782700E+00	0.543000E+00	0.562300E+00	-0.910100E+00
11.800	0.383700E+00	0.170500E+00	0.355590E+01	0.748800E+00	0.545900E+00	0.540400E+00	-0.921400E+00
12.000	0.348700E+00	0.173700E+00	0.354130E+01	0.710900E+00	0.547400E+00	0.515500E+00	-0.930100E+00
12.200	0.317100E+00	0.175300E+00	0.352760E+01	0.670400E+00	0.547500E+00	0.488000E+00	-0.934100E+00
12.400	0.288500E+00	0.175600E+00	0.351460E+01	0.628600E+00	0.545700E+00	0.457900E+00	-0.930400E+00
12.600	0.262700E+00	0.174800E+00	0.350210E+01	0.586500E+00	0.542000E+00	0.426000E+00	-0.914600E+00
12.800	0.239600E+00	0.173300E+00	0.349000E+01	0.545000E+00	0.536100E+00	0.392800E+00	-0.880300E+00
13.000	0.218800E+00	0.171100E+00	0.347830E+01	0.504800E+00	0.528100E+00	0.359200E+00	-0.816200E+00
13.200	0.200100E+00	0.168400E+00	0.346700E+01	0.466500E+00	0.517800E+00	0.325800E+00	-0.700900E+00
13.400	0.183400E+00	0.165200E+00	0.345600E+01	0.430500E+00	0.505500E+00	0.293600E+00	-0.492300E+00
13.600	0.168400E+00	0.161800E+00	0.344530E+01	0.397100E+00	0.491400E+00	0.263200E+00	-0.152600E+00
13.800	0.154900E+00	0.158100E+00	0.343490E+01	0.366400E+00	0.475600E+00	0.235100E+00	-0.203400E+00
14.000	0.142900E+00	0.154100E+00	0.342480E+01	0.338400E+00	0.458500E+00	0.209900E+00	-0.425800E+00
14.200	0.132100E+00	0.150100E+00	0.341500E+01	0.313000E+00	0.440300E+00	0.188000E+00	-0.542100E+00
14.400	0.122400E+00	0.145900E+00	0.340540E+01	0.290100E+00	0.421300E+00	0.169400E+00	-0.604600E+00
14.600	0.113700E+00	0.141600E+00	0.339610E+01	0.269500E+00	0.401700E+00	0.154500E+00	-0.640100E+00
14.800	0.105900E+00	0.137400E+00	0.338710E+01	0.251000E+00	0.381800E+00	0.143300E+00	-0.660700E+00
15.000	0.989000E-01	0.133000E+00	0.337840E+01	0.234400E+00	0.361800E+00	0.135700E+00	-0.672700E+00
15.200	0.925000E-01	0.128700E+00	0.336990E+01	0.219600E+00	0.342500E+00	0.128600E+00	-0.679700E+00
15.400	0.867000E-01	0.124500E+00	0.336180E+01	0.206200E+00	0.323300E+00	0.127600E+00	-0.682700E+00
15.600	0.816000E-01	0.120200E+00	0.335380E+01	0.194200E+00	0.304600E+00	0.129200E+00	-0.683000E+00
15.800	0.769000E-01	0.116000E+00	0.334620E+01	0.183400E+00	0.286700E+00	0.132900E+00	-0.681900E+00
16.000	0.726000E-01	0.111900E+00	0.333880E+01	0.173600E+00	0.270000E+00	0.137800E+00	-0.679700E+00
16.200	0.687000E-01	0.107900E+00	0.333160E+01	0.164700E+00	0.254200E+00	0.143400E+00	-0.676800E+00
16.400	0.651000E-01	0.103900E+00	0.332470E+01	0.156600E+00	0.239600E+00	0.149200E+00	-0.673600E+00
16.600	0.619000E-01	0.100100E+00	0.331800E+01	0.149100E+00	0.225500E+00	0.155800E+00	-0.668500E+00
16.800	0.589000E-01	0.963000E-01	0.331150E+01	0.142300E+00	0.213300E+00	0.160400E+00	-0.665300E+00

1								
2								
3	17.000	0.561000E-01	0.927000E-01	0.330530E+01	0.136000E+00	0.202100E+00	0.164100E+00	-0.662400E+00
4	17.200	0.536000E-01	0.891000E-01	0.329920E+01	0.130200E+00	0.192000E+00	0.166900E+00	-0.659700E+00
5	17.400	0.512000E-01	0.857000E-01	0.329340E+01	0.124800E+00	0.182800E+00	0.168700E+00	-0.657200E+00
6	17.600	0.490000E-01	0.824000E-01	0.328780E+01	0.119700E+00	0.174500E+00	0.169600E+00	-0.654800E+00
7	17.800	0.470000E-01	0.792000E-01	0.328240E+01	0.115000E+00	0.167000E+00	0.169700E+00	-0.652400E+00
8	18.000	0.450000E-01	0.761000E-01	0.327720E+01	0.110500E+00	0.160200E+00	0.169100E+00	-0.649900E+00
9	18.200	0.433000E-01	0.732000E-01	0.327210E+01	0.106300E+00	0.154000E+00	0.167900E+00	-0.647200E+00
10	18.400	0.416000E-01	0.703000E-01	0.326720E+01	0.102300E+00	0.148500E+00	0.166200E+00	-0.644100E+00
11	18.600	0.400000E-01	0.676000E-01	0.326250E+01	0.985000E-01	0.143400E+00	0.164100E+00	-0.640500E+00
12	18.800	0.385000E-01	0.649000E-01	0.325790E+01	0.949000E-01	0.138800E+00	0.161800E+00	-0.636300E+00
13	19.000	0.371000E-01	0.624000E-01	0.325350E+01	0.915000E-01	0.134700E+00	0.158800E+00	-0.632300E+00
14	19.200	0.358000E-01	0.600000E-01	0.324930E+01	0.882000E-01	0.130800E+00	0.156200E+00	-0.626400E+00
15	19.400	0.346000E-01	0.576000E-01	0.324520E+01	0.850000E-01	0.127200E+00	0.153300E+00	-0.619500E+00
16	19.600	0.334000E-01	0.554000E-01	0.324120E+01	0.820000E-01	0.124000E+00	0.150300E+00	-0.611700E+00
17	19.800	0.322000E-01	0.533000E-01	0.323740E+01	0.792000E-01	0.121000E+00	0.147300E+00	-0.602500E+00
18	20.000	0.312000E-01	0.512000E-01	0.323370E+01	0.764000E-01	0.118200E+00	0.144300E+00	-0.592100E+00
19	20.200	0.301000E-01	0.492000E-01	0.323010E+01	0.738000E-01	0.115600E+00	0.141200E+00	-0.580300E+00
20	20.400	0.292000E-01	0.474000E-01	0.322670E+01	0.712000E-01	0.113200E+00	0.138100E+00	-0.566400E+00
21	20.600	0.282000E-01	0.456000E-01	0.322330E+01	0.688000E-01	0.110900E+00	0.135200E+00	-0.550000E+00
22	20.800	0.274000E-01	0.438000E-01	0.322010E+01	0.664000E-01	0.108800E+00	0.132200E+00	-0.530300E+00
23	21.000	0.265000E-01	0.422000E-01	0.321690E+01	0.642000E-01	0.106800E+00	0.129300E+00	-0.505800E+00
24	21.200	0.257000E-01	0.406000E-01	0.321390E+01	0.620000E-01	0.104900E+00	0.126500E+00	-0.474600E+00
25	21.400	0.249000E-01	0.391000E-01	0.321090E+01	0.599000E-01	0.103100E+00	0.123700E+00	-0.433900E+00
26	21.600	0.242000E-01	0.377000E-01	0.320810E+01	0.579000E-01	0.101400E+00	0.121000E+00	-0.381700E+00
27	21.800	0.235000E-01	0.363000E-01	0.320540E+01	0.560000E-01	0.998000E-01	0.118300E+00	-0.318800E+00
28	22.000	0.228000E-01	0.350000E-01	0.320270E+01	0.541000E-01	0.983000E-01	0.115700E+00	-0.251600E+00
29	22.200	0.221000E-01	0.337000E-01	0.320010E+01	0.523000E-01	0.968000E-01	0.113200E+00	-0.189300E+00
30	22.400	0.215000E-01	0.325000E-01	0.319760E+01	0.506000E-01	0.955000E-01	0.110700E+00	-0.138000E+00
31	22.600	0.209000E-01	0.314000E-01	0.319520E+01	0.490000E-01	0.941000E-01	0.108300E+00	-0.986000E-01
32	22.800	0.203000E-01	0.303000E-01	0.319280E+01	0.474000E-01	0.929000E-01	0.105900E+00	-0.694000E-01
33	23.000	0.197000E-01	0.292000E-01	0.319050E+01	0.459000E-01	0.917000E-01	0.103600E+00	-0.478000E-01
34	23.200	0.192000E-01	0.282000E-01	0.318830E+01	0.444000E-01	0.906000E-01	0.101300E+00	-0.318000E-01
35	23.400	0.187000E-01	0.272000E-01	0.318620E+01	0.430000E-01	0.895000E-01	0.991000E-01	-0.199000E-01
36	23.600	0.181000E-01	0.263000E-01	0.318410E+01	0.416000E-01	0.884000E-01	0.969000E-01	-0.109000E-01
37	23.800	0.177000E-01	0.254000E-01	0.318210E+01	0.403000E-01	0.874000E-01	0.948000E-01	-0.410000E-02
38	24.000	0.172000E-01	0.245000E-01	0.318010E+01	0.391000E-01	0.865000E-01	0.927000E-01	0.100000E-02
39	24.200	0.167000E-01	0.237000E-01	0.317820E+01	0.379000E-01	0.856000E-01	0.907000E-01	0.490000E-02
40	24.400	0.163000E-01	0.229000E-01	0.317630E+01	0.367000E-01	0.847000E-01	0.887000E-01	0.790000E-02
41	24.800	0.154000E-01	0.214000E-01	0.317280E+01	0.345000E-01	0.830000E-01	0.847000E-01	0.119000E-01
42	25.000	0.150000E-01	0.207000E-01	0.317110E+01	0.335000E-01	0.822000E-01	0.828000E-01	0.131000E-01
43	25.400	0.143000E-01	0.194000E-01	0.316780E+01	0.316000E-01	0.807000E-01	0.791000E-01	0.147000E-01
44	25.600	0.139000E-01	0.188000E-01	0.316620E+01	0.307000E-01	0.800000E-01	0.773000E-01	0.151000E-01
45	25.800	0.136000E-01	0.182000E-01	0.316470E+01	0.298000E-01	0.793000E-01	0.755000E-01	0.154000E-01
46	26.000	0.132000E-01	0.177000E-01	0.316320E+01	0.289000E-01	0.786000E-01	0.737000E-01	0.155000E-01
47	26.400	0.126000E-01	0.166000E-01	0.316040E+01	0.273000E-01	0.773000E-01	0.703000E-01	0.155000E-01
48	26.600	0.123000E-01	0.161000E-01	0.315910E+01	0.266000E-01	0.767000E-01	0.686000E-01	0.154000E-01
49	26.800	0.120000E-01	0.156000E-01	0.315770E+01	0.259000E-01	0.761000E-01	0.670000E-01	0.152000E-01
50	27.000	0.117000E-01	0.151000E-01	0.315640E+01	0.251000E-01	0.755000E-01	0.653000E-01	0.149000E-01
51	27.200	0.114000E-01	0.147000E-01	0.315520E+01	0.245000E-01	0.750000E-01	0.637000E-01	0.146000E-01
52	27.400	0.111000E-01	0.143000E-01	0.315400E+01	0.238000E-01	0.744000E-01	0.621000E-01	0.144000E-01
53	27.600	0.109000E-01	0.138000E-01	0.315280E+01	0.232000E-01	0.739000E-01	0.606000E-01	0.141000E-01
54	28.000	0.104000E-01	0.130000E-01	0.315050E+01	0.220000E-01	0.729000E-01	0.576000E-01	0.134000E-01
55	28.200	0.102000E-01	0.127000E-01	0.314940E+01	0.214000E-01	0.724000E-01	0.561000E-01	0.131000E-01
56	28.600	0.970000E-02	0.120000E-01	0.314730E+01	0.204000E-01	0.715000E-01	0.532000E-01	0.125000E-01
57	28.800	0.950000E-02	0.116000E-01	0.314630E+01	0.199000E-01	0.711000E-01	0.518000E-01	0.122000E-01
58	29.400	0.890000E-02	0.107000E-01	0.314340E+01	0.184000E-01	0.698000E-01	0.478000E-01	0.112000E-01
59	30.200	0.820000E-02	0.960000E-02	0.313980E+01	0.167000E-01	0.684000E-01	0.428000E-01	0.100000E-01
60	30.400	0.800000E-02	0.930000E-02	0.313900E+01	0.163000E-01	0.680000E-01	0.416000E-01	0.970000E-02
	31.400	0.720000E-02	0.820000E-02	0.313500E+01	0.145000E-01	0.665000E-01	0.360000E-01	0.840000E-02
	31.600	0.710000E-02	0.800000E-02	0.313440E+01	0.142000E-01	0.662000E-01	0.350000E-01	0.820000E-02
	31.800	0.700000E-02	0.780000E-02	0.313370E+01	0.139000E-01	0.659000E-01	0.340000E-01	0.800000E-02

Table 2: $(2)^1\Pi - (2-7)^1\Pi$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.000	-0.104510E+01	-0.114450E+01	0.587800E+00	0.190700E+00	-0.188800E+01	-0.626400E+00
3.200	-0.112450E+01	-0.128690E+01	0.531900E+00	0.152600E+00	-0.192640E+01	-0.680900E+00
3.400	-0.114210E+01	-0.146490E+01	0.474600E+00	-0.274000E-01	-0.195350E+01	0.746800E+00
3.800	-0.103370E+01	-0.185110E+01	0.328200E+00	-0.372900E+00	-0.195080E+01	-0.894500E+00
4.000	-0.915100E+00	-0.204660E+01	0.222600E+00	-0.632700E+00	-0.191400E+01	-0.972000E+00
4.200	-0.757200E+00	-0.223180E+01	0.101700E+00	-0.930500E+00	-0.184210E+01	-0.104850E+01
4.400	-0.565900E+00	-0.239590E+01	-0.200000E-01	-0.125790E+01	-0.172580E+01	-0.112050E+01
4.600	-0.350600E+00	-0.253030E+01	-0.132200E+00	-0.159490E+01	-0.156090E+01	-0.117840E+01
4.800	-0.121900E+00	-0.263080E+01	-0.232400E+00	-0.191520E+01	-0.136080E+01	-0.121700E+01
5.200	-0.339500E+00	-0.273460E+01	-0.409900E+00	-0.242590E+01	-0.951700E+00	-0.123340E+01
5.400	-0.560900E+00	-0.274680E+01	-0.488200E+00	-0.260420E+01	-0.785100E+00	-0.122430E+01
5.600	-0.773700E+00	-0.273960E+01	-0.552200E+00	-0.273780E+01	-0.658500E+00	-0.121660E+01
5.800	-0.978500E+00	-0.271720E+01	-0.592800E+00	-0.283670E+01	-0.573900E+00	-0.121670E+01
6.000	-0.117670E+01	-0.268280E+01	-0.600700E+00	-0.291130E+01	-0.529300E+00	-0.122750E+01
6.200	-0.136940E+01	-0.263770E+01	-0.568400E+00	-0.297070E+01	-0.521600E+00	-0.124760E+01
6.400	-0.155720E+01	-0.258140E+01	-0.490700E+00	-0.302180E+01	-0.546700E+00	-0.127500E+01
6.600	-0.173980E+01	-0.251150E+01	-0.364200E+00	-0.306970E+01	-0.599400E+00	-0.130630E+01
6.800	-0.191610E+01	-0.242280E+01	-0.188500E+00	-0.311750E+01	-0.673600E+00	-0.133790E+01
7.000	-0.208380E+01	-0.230730E+01	0.330000E-01	-0.316680E+01	-0.761900E+00	-0.136760E+01
7.200	-0.223830E+01	-0.215650E+01	0.290400E+00	-0.321860E+01	-0.852500E+00	-0.139110E+01
7.400	-0.237900E+01	-0.195850E+01	0.563800E+00	-0.327260E+01	-0.949700E+00	-0.141250E+01
7.600	-0.250010E+01	-0.171380E+01	0.827700E+00	-0.332850E+01	-0.104310E+01	-0.142820E+01
7.800	-0.259800E+01	-0.143170E+01	0.105790E+01	-0.338470E+01	-0.112970E+01	-0.143690E+01
8.000	-0.266930E+01	-0.112980E+01	0.124210E+01	-0.344020E+01	-0.120690E+01	-0.143740E+01
8.200	-0.271270E+01	-0.824800E+00	0.137980E+01	-0.349350E+01	-0.127530E+01	-0.142760E+01
8.400	-0.272580E+01	-0.530800E+00	0.148070E+01	-0.354330E+01	-0.133010E+01	-0.140690E+01
8.600	-0.271050E+01	-0.254900E+00	0.155330E+01	-0.358800E+01	-0.137640E+01	-0.137510E+01
9.000	-0.259970E+01	0.221600E+00	0.164790E+01	-0.365650E+01	-0.143070E+01	-0.127580E+01
9.200	-0.251070E+01	0.418600E+00	0.167930E+01	-0.367810E+01	-0.144470E+01	-0.121210E+01
9.400	-0.240380E+01	0.586700E+00	0.170350E+01	-0.368970E+01	-0.145010E+01	-0.114070E+01
9.600	-0.228260E+01	0.726100E+00	0.172100E+01	-0.369110E+01	-0.144950E+01	-0.106490E+01
9.800	-0.215090E+01	0.837600E+00	0.173180E+01	-0.368280E+01	-0.144640E+01	-0.987500E+00
10.000	-0.201200E+01	0.922300E+00	0.173490E+01	-0.366490E+01	-0.144090E+01	-0.909700E+00
10.200	-0.186920E+01	0.982200E+00	0.172940E+01	-0.363820E+01	-0.143470E+01	-0.832800E+00
10.400	-0.172550E+01	0.101930E+01	0.171420E+01	-0.360360E+01	-0.142860E+01	-0.757400E+00
10.600	-0.158370E+01	0.103640E+01	0.168870E+01	-0.356250E+01	-0.142400E+01	-0.683800E+00
10.800	-0.144580E+01	0.103620E+01	0.165230E+01	-0.351550E+01	-0.142010E+01	-0.612100E+00
11.000	-0.131380E+01	0.102150E+01	0.160470E+01	-0.346370E+01	-0.141710E+01	-0.541800E+00
11.200	-0.118920E+01	0.995400E+00	0.154640E+01	-0.340800E+01	-0.141480E+01	-0.472900E+00
11.400	-0.107270E+01	0.960500E+00	0.147810E+01	-0.334900E+01	-0.141340E+01	-0.405100E+00
11.600	-0.965200E+00	0.919100E+00	0.140070E+01	-0.328700E+01	-0.141230E+01	-0.337600E+00
11.800	-0.866600E+00	0.873600E+00	0.131590E+01	-0.322240E+01	-0.141170E+01	-0.269200E+00
12.000	-0.777000E+00	0.825700E+00	0.122530E+01	-0.315500E+01	-0.141100E+01	-0.199800E+00
12.200	-0.696000E+00	0.776800E+00	0.113070E+01	-0.308460E+01	-0.141020E+01	-0.128100E+00
12.400	-0.623300E+00	0.728100E+00	0.103420E+01	-0.301090E+01	-0.140930E+01	-0.519000E-01
12.600	-0.558200E+00	0.680400E+00	0.937600E+00	-0.293350E+01	-0.140820E+01	0.332000E-01
12.800	-0.500200E+00	0.634400E+00	0.842700E+00	-0.285230E+01	-0.140710E+01	0.136200E+00
13.000	-0.448700E+00	0.590500E+00	0.751100E+00	-0.276690E+01	-0.140600E+01	0.275500E+00
13.200	-0.402900E+00	0.549000E+00	0.664000E+00	-0.267710E+01	-0.140460E+01	0.490400E+00
13.400	-0.362400E+00	0.510000E+00	0.582300E+00	-0.258280E+01	-0.140260E+01	0.853600E+00
13.600	-0.326500E+00	0.473600E+00	0.506700E+00	-0.248390E+01	-0.139960E+01	0.140730E+01
13.800	-0.294800E+00	0.439600E+00	0.437400E+00	-0.238050E+01	-0.139460E+01	0.193800E+01
14.000	-0.266600E+00	0.408200E+00	0.374500E+00	-0.227240E+01	-0.138650E+01	0.226170E+01
14.200	-0.241700E+00	0.379200E+00	0.317700E+00	-0.216010E+01	-0.137390E+01	0.245570E+01
14.400	-0.219600E+00	0.352400E+00	0.266900E+00	-0.204380E+01	-0.135530E+01	0.259380E+01
14.600	-0.200000E+00	0.327800E+00	0.221700E+00	-0.192400E+01	-0.132880E+01	0.270660E+01
14.800	-0.182500E+00	0.305200E+00	0.181600E+00	-0.180160E+01	-0.129280E+01	0.280610E+01
15.000	-0.167000E+00	0.284500E+00	0.146200E+00	-0.167750E+01	-0.124590E+01	0.289720E+01
15.200	-0.153100E+00	0.265400E+00	0.114900E+00	-0.155290E+01	-0.118550E+01	0.298140E+01
15.400	-0.140700E+00	0.248000E+00	0.876000E-01	-0.142960E+01	-0.111510E+01	0.305960E+01
15.600	-0.129500E+00	0.232000E+00	0.637000E-01	-0.130880E+01	-0.103390E+01	0.313100E+01
15.800	-0.119500E+00	0.217400E+00	0.429000E-01	-0.119190E+01	-0.943600E+00	0.319460E+01
16.000	-0.110500E+00	0.204000E+00	0.248000E-01	-0.108020E+01	-0.847000E+00	0.324960E+01
16.200	-0.102400E+00	0.191800E+00	0.920000E-02	-0.974600E+00	-0.747300E+00	0.329540E+01
16.400	-0.950000E-01	0.180600E+00	0.430000E-02	-0.875900E+00	-0.647600E+00	0.333200E+01
16.600	-0.884000E-01	0.170300E+00	0.158000E-01	-0.784800E+00	-0.551700E+00	0.336110E+01
16.800	-0.823000E-01	0.160900E+00	0.258000E-01	-0.700600E+00	-0.460000E+00	0.338070E+01
17.000	-0.767000E-01	0.152300E+00	0.342000E-01	-0.623700E+00	-0.375100E+00	0.339290E+01
17.200	-0.717000E-01	0.144400E+00	0.413000E-01	-0.553900E+00	-0.297800E+00	0.339890E+01
17.400	-0.670000E-01	0.137100E+00	0.472000E-01	-0.490700E+00	-0.228600E+00	0.339970E+01
17.600	-0.628000E-01	0.130400E+00	0.522000E-01	-0.433800E+00	-0.167200E+00	0.339630E+01
17.800	-0.588000E-01	0.124300E+00	0.562000E-01	-0.382700E+00	-0.113400E+00	0.338930E+01
18.000	-0.552000E-01	0.118700E+00	0.594000E-01	-0.337000E+00	-0.667000E-01	0.337970E+01
18.200	-0.519000E-01	0.113400E+00	0.620000E-01	-0.296000E+00	-0.263000E-01	0.336790E+01
18.400	-0.488000E-01	0.108600E+00	0.640000E-01	-0.259500E+00	0.820000E-02	0.335440E+01
18.600	-0.459000E-01	0.104200E+00	0.654000E-01	-0.227000E+00	0.377000E-01	0.333940E+01
18.800	-0.432000E-01	0.100100E+00	0.664000E-01	-0.198000E+00	0.627000E-01	0.332340E+01

1						
2						
3	19.000	-0.407000E-01	0.962000E-01	0.670000E-01	-0.172100E+00	0.840000E-01
4	19.200	-0.384000E-01	0.927000E-01	0.672000E-01	-0.149300E+00	0.101500E+00
5	19.400	-0.363000E-01	0.894000E-01	0.671000E-01	-0.129100E+00	0.116000E+00
6	19.600	-0.342000E-01	0.863000E-01	0.668000E-01	-0.111200E+00	0.127900E+00
7	19.800	-0.323000E-01	0.834000E-01	0.663000E-01	-0.954000E-01	0.137400E+00
8	20.000	-0.305000E-01	0.807000E-01	0.656000E-01	-0.815000E-01	0.145000E+00
9	20.200	-0.289000E-01	0.781000E-01	0.647000E-01	-0.692000E-01	0.151000E+00
10	20.400	-0.273000E-01	0.757000E-01	0.637000E-01	-0.583000E-01	0.155500E+00
11	20.600	-0.258000E-01	0.735000E-01	0.626000E-01	-0.488000E-01	0.158800E+00
12	20.800	-0.244000E-01	0.713000E-01	0.614000E-01	-0.405000E-01	0.161000E+00
13	21.000	-0.231000E-01	0.693000E-01	0.602000E-01	-0.332000E-01	0.162300E+00
14	21.200	-0.219000E-01	0.674000E-01	0.589000E-01	-0.269000E-01	0.162800E+00
15	21.400	-0.207000E-01	0.655000E-01	0.575000E-01	-0.213000E-01	0.162600E+00
16	21.600	-0.196000E-01	0.638000E-01	0.561000E-01	-0.165000E-01	0.161800E+00
17	21.800	-0.186000E-01	0.621000E-01	0.547000E-01	-0.124000E-01	0.160600E+00
18	22.000	-0.176000E-01	0.606000E-01	0.533000E-01	-0.880000E-02	0.158900E+00
19	22.200	-0.167000E-01	0.590000E-01	0.519000E-01	-0.580000E-02	0.156900E+00
20	22.400	-0.158000E-01	0.576000E-01	0.506000E-01	-0.310000E-02	0.154600E+00
21	22.600	-0.150000E-01	0.562000E-01	0.492000E-01	-0.800000E-03	0.152300E+00
22	22.800	-0.142000E-01	0.549000E-01	0.478000E-01	0.100000E-02	0.149300E+00
23	23.000	-0.135000E-01	0.536000E-01	0.465000E-01	0.250000E-02	0.146400E+00
24	23.200	-0.128000E-01	0.523000E-01	0.451000E-01	0.380000E-02	0.143400E+00
25	23.400	-0.121000E-01	0.511000E-01	0.438000E-01	0.480000E-02	0.140300E+00
26	23.600	-0.114000E-01	0.500000E-01	0.425000E-01	0.570000E-02	0.137200E+00
27	23.800	-0.108000E-01	0.488000E-01	0.413000E-01	0.630000E-02	0.134000E+00
28	24.000	-0.103000E-01	0.478000E-01	0.401000E-01	0.690000E-02	0.130800E+00
29	24.200	-0.970000E-02	0.467000E-01	0.389000E-01	0.730000E-02	0.127600E+00
30	24.400	-0.920000E-02	0.457000E-01	0.378000E-01	0.760000E-02	0.124400E+00
31	24.800	-0.820000E-02	0.438000E-01	0.355000E-01	0.790000E-02	0.118100E+00
32	25.000	-0.780000E-02	0.428000E-01	0.345000E-01	0.790000E-02	0.115000E+00
33	25.400	-0.700000E-02	0.411000E-01	0.325000E-01	0.780000E-02	0.109000E+00
34	25.600	-0.660000E-02	0.402000E-01	0.315000E-01	0.770000E-02	0.106000E+00
35	25.800	-0.620000E-02	0.394000E-01	0.306000E-01	0.750000E-02	0.103000E+00
36	26.000	-0.590000E-02	0.386000E-01	0.297000E-01	0.730000E-02	0.100200E+00
37	26.400	-0.520000E-02	0.371000E-01	0.280000E-01	0.690000E-02	0.946000E-01
38	26.600	-0.490000E-02	0.363000E-01	0.272000E-01	0.660000E-02	0.919000E-01
39	26.800	-0.460000E-02	0.356000E-01	0.264000E-01	0.640000E-02	0.893000E-01
40	27.000	-0.430000E-02	0.349000E-01	0.256000E-01	0.610000E-02	0.867000E-01
41	27.200	-0.410000E-02	0.342000E-01	0.249000E-01	0.580000E-02	0.842000E-01
42	27.400	-0.380000E-02	0.335000E-01	0.242000E-01	0.560000E-02	0.819000E-01
43	27.600	-0.360000E-02	0.329000E-01	0.235000E-01	0.530000E-02	0.795000E-01
44	28.000	-0.310000E-02	0.316000E-01	0.222000E-01	0.480000E-02	0.750000E-01
45	28.200	-0.290000E-02	0.310000E-01	0.215000E-01	0.450000E-02	0.729000E-01
46	28.600	-0.250000E-02	0.299000E-01	0.204000E-01	0.410000E-02	0.688000E-01
47	28.800	-0.230000E-02	0.293000E-01	0.198000E-01	0.380000E-02	0.669000E-01
48	29.400	-0.180000E-02	0.277000E-01	0.182000E-01	0.320000E-02	0.615000E-01
49	30.200	-0.120000E-02	0.258000E-01	0.164000E-01	0.250000E-02	0.549000E-01
50	30.400	-0.110000E-02	0.253000E-01	0.159000E-01	0.230000E-02	0.534000E-01
51	31.400	-0.500000E-03	0.231000E-01	0.140000E-01	0.160000E-02	0.466000E-01
52	31.600	-0.400000E-03	0.227000E-01	0.137000E-01	0.150000E-02	0.454000E-01
53	31.800	-0.300000E-03	0.223000E-01	0.133000E-01	0.140000E-02	0.442000E-01

Table 3: (3)¹Π -(3-7)¹Π transitions

R	3-3	3-4	3-5	3-6	3-7
3.000	-0.377820E+01	0.317100E+00	-0.360330E+01	0.731500E+00	0.115740E+01
3.200	-0.343700E+01	0.854100E+00	-0.364110E+01	0.436300E+00	0.995000E+00
3.400	-0.314240E+01	0.119550E+01	-0.376060E+01	0.181400E+00	0.970500E+00
3.800	-0.267150E+01	0.177730E+01	-0.410600E+01	0.211200E+00	0.120340E+01
4.000	-0.246080E+01	0.209720E+01	-0.425620E+01	0.366600E+00	0.139850E+01
4.200	-0.223820E+01	0.244660E+01	-0.435280E+01	0.511300E+00	0.160620E+01
4.400	-0.198300E+01	0.281220E+01	-0.438960E+01	0.657500E+00	0.180890E+01
4.600	-0.168600E+01	0.317220E+01	-0.438130E+01	0.808100E+00	0.198780E+01
4.800	-0.134900E+01	0.349820E+01	-0.435470E+01	0.963400E+00	0.214190E+01
5.200	-0.604400E+00	0.397130E+01	-0.434410E+01	0.130350E+01	0.235850E+01
5.400	-0.219200E+00	0.410140E+01	-0.438050E+01	0.150430E+01	0.242230E+01
5.600	0.167500E+00	0.416290E+01	-0.443700E+01	0.173660E+01	0.246290E+01
5.800	0.556800E+00	0.416340E+01	-0.449810E+01	0.200520E+01	0.248160E+01
6.000	0.953400E+00	0.411010E+01	-0.454720E+01	0.231150E+01	0.247560E+01
6.200	0.136380E+01	0.400630E+01	-0.456940E+01	0.265520E+01	0.243840E+01
6.400	0.179500E+01	0.384870E+01	-0.455200E+01	0.303090E+01	0.236140E+01
6.600	0.225120E+01	0.362680E+01	-0.448320E+01	0.342760E+01	0.223650E+01
6.800	0.272990E+01	0.332180E+01	-0.435140E+01	0.382750E+01	0.205890E+01
7.000	0.321470E+01	0.291060E+01	-0.414460E+01	0.420470E+01	0.182860E+01
7.200	0.367100E+01	0.237620E+01	-0.385330E+01	0.451460E+01	0.154960E+01
7.400	0.403160E+01	0.172410E+01	-0.348300E+01	0.475050E+01	0.124680E+01
7.600	0.424100E+01	0.100490E+01	-0.305470E+01	0.487580E+01	0.936100E+00
7.800	0.427710E+01	0.299900E+00	-0.260580E+01	0.488810E+01	0.644000E+00
8.000	0.416370E+01	0.320900E+00	-0.217690E+01	0.481120E+01	0.391500E+00
8.200	0.394990E+01	0.824300E+00	-0.179540E+01	0.468240E+01	0.186600E+00
8.400	0.368670E+01	0.121320E+01	-0.147020E+01	0.452200E+01	0.319000E-01
8.600	0.340340E+01	0.150690E+01	-0.120130E+01	0.435880E+01	-0.781000E-01
8.800	0.312070E+01	0.172960E+01	-0.980500E+00	0.419610E+01	-0.148400E+00
9.000	0.284600E+01	0.190100E+01	-0.800700E+00	0.404250E+01	-0.185800E+00
9.200	0.258250E+01	0.203640E+01	-0.654500E+00	0.390370E+01	-0.194300E+00
9.400	0.233200E+01	0.214700E+01	-0.535300E+00	0.377680E+01	-0.179400E+00
9.600	0.209530E+01	0.224060E+01	-0.437600E+00	0.366250E+01	-0.145300E+00
9.800	0.187230E+01	0.232210E+01	-0.357500E+00	0.356140E+01	-0.951000E-01
10.000	0.166390E+01	0.239490E+01	-0.291100E+00	0.347080E+01	-0.341000E-01
10.200	0.147030E+01	0.246090E+01	-0.235700E+00	0.338860E+01	0.356000E-01
10.400	0.129210E+01	0.252120E+01	-0.188400E+00	0.331420E+01	0.109500E+00
10.600	0.112900E+01	0.257640E+01	-0.147300E+00	0.324750E+01	0.186300E+00
10.800	0.981600E+00	0.262670E+01	-0.110400E+00	0.318570E+01	0.262100E+00
11.000	0.849200E+00	0.267230E+01	-0.758000E-01	0.312870E+01	0.335500E+00
11.200	0.731000E+00	0.271320E+01	-0.422000E-01	0.307660E+01	0.405000E+00
11.400	0.625900E+00	0.274960E+01	-0.820000E-02	0.302890E+01	0.470700E+00
11.600	0.533100E+00	0.278130E+01	0.270000E-01	0.298540E+01	0.530600E+00
11.800	0.450700E+00	0.280900E+01	0.643000E-01	0.294630E+01	0.592400E+00
12.000	0.378100E+00	0.283280E+01	0.104200E+00	0.291190E+01	0.652700E+00
12.200	0.313800E+00	0.285280E+01	0.146400E+00	0.288220E+01	0.713500E+00
12.400	0.257000E+00	0.286940E+01	0.190600E+00	0.285730E+01	0.778100E+00
12.600	0.206900E+00	0.288300E+01	0.236300E+00	0.283680E+01	0.851300E+00
12.800	0.162200E+00	0.289390E+01	0.282300E+00	0.282160E+01	0.945200E+00
13.000	0.122300E+00	0.290250E+01	0.327800E+00	0.281150E+01	0.107640E+01
13.200	0.868000E-01	0.290910E+01	0.371900E+00	0.280670E+01	0.127640E+01
13.400	0.551000E-01	0.291420E+01	0.413700E+00	0.280800E+01	0.159100E+01
13.600	0.267000E-01	0.291800E+01	0.452300E+00	0.281560E+01	0.200180E+01
13.800	0.140000E-02	0.292090E+01	0.487100E+00	0.283010E+01	0.228910E+01
14.000	-0.213000E-01	0.292320E+01	0.518000E+00	0.285220E+01	0.237260E+01
14.200	-0.415000E-01	0.292500E+01	0.544400E+00	0.288250E+01	0.236260E+01
14.400	-0.595000E-01	0.292650E+01	0.566200E+00	0.292100E+01	0.231790E+01
14.600	-0.755000E-01	0.292790E+01	0.583400E+00	0.296790E+01	0.225590E+01
14.800	-0.896000E-01	0.292920E+01	0.596200E+00	0.302260E+01	0.218100E+01
15.000	-0.102100E+00	0.293040E+01	0.604800E+00	0.308410E+01	0.209440E+01
15.200	-0.112900E+00	0.293160E+01	0.609800E+00	0.315130E+01	0.199610E+01
15.400	-0.122300E+00	0.293270E+01	0.611800E+00	0.322190E+01	0.188710E+01
15.600	-0.130400E+00	0.293380E+01	0.611200E+00	0.329370E+01	0.176890E+01
15.800	-0.137200E+00	0.293480E+01	0.608900E+00	0.336430E+01	0.164320E+01
16.000	-0.142900E+00	0.293570E+01	0.605600E+00	0.343150E+01	0.151280E+01
16.200	-0.147600E+00	0.293640E+01	0.601700E+00	0.349330E+01	0.138090E+01
16.400	-0.151300E+00	0.293700E+01	0.597800E+00	0.354860E+01	0.125050E+01
16.600	-0.154100E+00	0.293740E+01	0.593800E+00	0.359610E+01	0.112560E+01
16.800	-0.156100E+00	0.293770E+01	0.590600E+00	0.363730E+01	0.100600E+01
17.000	-0.157400E+00	0.293770E+01	0.588000E+00	0.367180E+01	0.894300E+00
17.200	-0.158000E+00	0.293750E+01	0.586000E+00	0.370020E+01	0.791700E+00
17.400	-0.158000E+00	0.293710E+01	0.584400E+00	0.372330E+01	0.698400E+00
17.600	-0.157500E+00	0.293640E+01	0.583200E+00	0.374190E+01	0.614500E+00
17.800	-0.156400E+00	0.293550E+01	0.582300E+00	0.375660E+01	0.539700E+00
18.000	-0.155000E+00	0.293430E+01	0.581300E+00	0.376810E+01	0.473500E+00
18.200	-0.153200E+00	0.293300E+01	0.580400E+00	0.377710E+01	0.415500E+00
18.400	-0.151000E+00	0.293140E+01	0.579200E+00	0.378390E+01	0.364900E+00
18.600	-0.148600E+00	0.292950E+01	0.577800E+00	0.378900E+01	0.321200E+00

1					
2					
3	18.800	-0.146000E+00	0.292750E+01	0.576000E+00	0.379280E+01
4	19.000	-0.143100E+00	0.292530E+01	0.573800E+00	0.379540E+01
5	19.200	-0.140000E+00	0.292300E+01	0.571100E+00	0.379710E+01
6	19.400	-0.136800E+00	0.292040E+01	0.567800E+00	0.379810E+01
7	19.600	-0.133600E+00	0.291780E+01	0.563900E+00	0.379850E+01
8	19.800	-0.130100E+00	0.291500E+01	0.559700E+00	0.379810E+01
9	20.000	-0.126700E+00	0.291200E+01	0.554600E+00	0.379770E+01
10	20.200	-0.123300E+00	0.290900E+01	0.549000E+00	0.379710E+01
11	20.400	-0.119800E+00	0.290590E+01	0.542800E+00	0.379620E+01
12	20.600	-0.116300E+00	0.290280E+01	0.536100E+00	0.379520E+01
13	20.800	-0.112900E+00	0.289950E+01	0.528900E+00	0.379400E+01
14	21.000	-0.109400E+00	0.289630E+01	0.521200E+00	0.379280E+01
15	21.200	-0.106000E+00	0.289300E+01	0.513000E+00	0.379160E+01
16	21.400	-0.102700E+00	0.288960E+01	0.504400E+00	0.379030E+01
17	21.600	-0.994000E-01	0.288630E+01	0.495500E+00	0.378900E+01
18	21.800	-0.962000E-01	0.288300E+01	0.486200E+00	0.378780E+01
19	22.000	-0.931000E-01	0.287970E+01	0.476600E+00	0.378650E+01
20	22.200	-0.901000E-01	0.287640E+01	0.466700E+00	0.378530E+01
21	22.400	-0.871000E-01	0.287320E+01	0.456600E+00	0.378420E+01
22	22.600	-0.842000E-01	0.287000E+01	0.446300E+00	0.378310E+01
23	22.800	-0.814000E-01	0.286680E+01	0.435900E+00	0.378210E+01
24	23.000	-0.787000E-01	0.286370E+01	0.425300E+00	0.378120E+01
25	23.200	-0.761000E-01	0.286070E+01	0.414600E+00	0.378030E+01
26	23.400	-0.736000E-01	0.285770E+01	0.403800E+00	0.377950E+01
27	23.600	-0.712000E-01	0.285480E+01	0.393000E+00	0.377870E+01
28	23.800	-0.688000E-01	0.285200E+01	0.382200E+00	0.377810E+01
29	24.000	-0.666000E-01	0.284920E+01	0.371400E+00	0.377750E+01
30	24.200	-0.644000E-01	0.284650E+01	0.360600E+00	0.377700E+01
31	24.400	-0.623000E-01	0.284380E+01	0.349900E+00	0.377660E+01
32	24.800	-0.584000E-01	0.283880E+01	0.328800E+00	0.377590E+01
33	25.000	-0.565000E-01	0.283640E+01	0.318400E+00	0.377560E+01
34	25.400	-0.531000E-01	0.283180E+01	0.298100E+00	0.377530E+01
35	25.600	-0.514000E-01	0.282960E+01	0.288200E+00	0.377520E+01
36	25.800	-0.499000E-01	0.282750E+01	0.278500E+00	0.377520E+01
37	26.000	-0.484000E-01	0.282540E+01	0.269000E+00	0.377530E+01
38	26.400	-0.456000E-01	0.282150E+01	0.250700E+00	0.377550E+01
39	26.600	-0.442000E-01	0.281960E+01	0.241800E+00	0.377570E+01
40	26.800	-0.430000E-01	0.281780E+01	0.233200E+00	0.377590E+01
41	27.000	-0.417000E-01	0.281610E+01	0.224700E+00	0.377590E+01
42	27.200	-0.406000E-01	0.281440E+01	0.216600E+00	0.377620E+01
43	27.400	-0.394000E-01	0.281280E+01	0.208800E+00	0.377640E+01
44	27.600	-0.384000E-01	0.281120E+01	0.201100E+00	0.377680E+01
45	28.000	-0.363000E-01	0.280820E+01	0.186700E+00	0.377750E+01
46	28.200	-0.354000E-01	0.280670E+01	0.179800E+00	0.377780E+01
47	28.600	-0.336000E-01	0.280400E+01	0.166800E+00	0.377850E+01
48	28.800	-0.327000E-01	0.280270E+01	0.160700E+00	0.377880E+01
49	29.400	-0.304000E-01	0.279900E+01	0.143500E+00	0.377970E+01
50	30.200	-0.276000E-01	0.279460E+01	0.123700E+00	0.378070E+01
51	30.400	-0.270000E-01	0.279360E+01	0.119200E+00	0.378090E+01
52	31.400	-0.242000E-01	0.278900E+01	0.993000E-01	0.378160E+01
53	31.600	-0.237000E-01	0.278820E+01	0.958000E-01	0.378160E+01
54	31.800	-0.232000E-01	0.278740E+01	0.924000E-01	0.378160E+01

Table 4: $(1)^3\Pi - (1-7)^3\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	-0.106600E+01	0.177950E+01	-0.203740E+01	-0.664000E+00	-0.101810E+01	-0.600400E+00	0.290700E+00
3.200	-0.113380E+01	0.178470E+01	-0.206080E+01	-0.719200E+00	-0.915000E+00	-0.600100E+00	0.313300E+00
3.400	-0.118090E+01	0.180050E+01	-0.208380E+01	-0.742000E+00	-0.828500E+00	-0.598800E+00	0.325800E+00
3.800	-0.123390E+01	0.185000E+01	-0.214190E+01	-0.687200E+00	-0.691100E+00	-0.595000E+00	0.338100E+00
4.000	-0.124580E+01	0.188130E+01	-0.219950E+01	-0.523200E+00	-0.637200E+00	-0.594200E+00	0.340600E+00
4.200	-0.125090E+01	0.191820E+01	-0.220060E+01	-0.549600E+00	-0.593800E+00	-0.594600E+00	0.341300E+00
4.400	-0.125120E+01	0.196150E+01	-0.130210E+01	-0.186170E+01	-0.562900E+00	-0.597000E+00	0.340600E+00
4.600	-0.124840E+01	0.201140E+01	-0.109130E+01	-0.199280E+01	-0.546800E+00	-0.601900E+00	0.338200E+00
4.800	-0.124390E+01	0.206730E+01	-0.101060E+01	-0.203120E+01	-0.549500E+00	-0.610700E+00	0.335700E+00
5.200	-0.123420E+01	0.219260E+01	-0.925200E+00	-0.204710E+01	-0.628800E+00	-0.646500E+00	0.331100E+00
5.400	-0.123030E+01	0.225930E+01	-0.892700E+00	-0.203370E+01	-0.715700E+00	-0.678600E+00	0.329900E+00
5.600	-0.122750E+01	0.232710E+01	-0.861900E+00	-0.200170E+01	-0.836000E+00	-0.724100E+00	0.329900E+00
5.800	-0.122580E+01	0.239480E+01	-0.831200E+00	-0.195220E+01	-0.975100E+00	-0.781800E+00	0.331200E+00
6.000	-0.122530E+01	0.246140E+01	-0.799800E+00	-0.190460E+01	-0.109950E+01	-0.840500E+00	0.333400E+00
6.200	-0.122590E+01	0.252620E+01	-0.766600E+00	-0.189200E+01	-0.117800E+01	-0.880400E+00	0.335400E+00
6.400	-0.122720E+01	0.258830E+01	-0.730800E+00	-0.193120E+01	-0.120730E+01	-0.888300E+00	0.336600E+00
6.600	-0.122910E+01	0.264700E+01	-0.691000E+00	-0.201110E+01	-0.120490E+01	-0.867000E+00	0.336300E+00
6.800	-0.123120E+01	0.270170E+01	-0.645000E+00	-0.211150E+01	-0.119050E+01	-0.834200E+00	0.334200E+00
7.000	-0.123320E+01	0.275160E+01	-0.589400E+00	-0.221920E+01	-0.117670E+01	-0.782000E+00	0.330200E+00
7.200	-0.123480E+01	0.279590E+01	-0.517700E+00	-0.232910E+01	-0.116890E+01	-0.734700E+00	0.322900E+00
7.400	-0.123540E+01	0.283420E+01	-0.419600E+00	-0.243980E+01	-0.116940E+01	-0.689200E+00	0.314800E+00
7.600	-0.123470E+01	0.286570E+01	-0.270100E+00	-0.255110E+01	-0.117780E+01	-0.645900E+00	0.304100E+00
7.800	-0.123200E+01	0.288980E+01	-0.820000E-02	-0.265550E+01	-0.119350E+01	-0.604500E+00	0.289900E+00
8.000	-0.122700E+01	0.290560E+01	0.532800E+00	-0.269410E+01	-0.121590E+01	-0.564400E+00	0.270600E+00
8.200	-0.121890E+01	0.291300E+01	0.154590E+01	-0.237910E+01	-0.124470E+01	-0.525100E+00	0.243500E+00
8.400	-0.120730E+01	0.291080E+01	0.233590E+01	-0.176580E+01	-0.127890E+01	-0.485500E+00	0.199300E+00
8.600	-0.119150E+01	0.289900E+01	0.268240E+01	-0.138310E+01	-0.131870E+01	-0.445200E+00	0.118800E+00
8.800	-0.117100E+01	0.287710E+01	0.287890E+01	-0.116490E+01	-0.136320E+01	-0.403500E+00	-0.578000E-01
9.000	-0.114520E+01	0.284490E+01	0.302320E+01	-0.101760E+01	-0.141200E+01	-0.359900E+00	-0.413500E+00
9.200	-0.111370E+01	0.280250E+01	0.314260E+01	-0.900600E+00	-0.146440E+01	-0.313500E+00	-0.700100E+00
9.400	-0.107620E+01	0.275000E+01	0.324610E+01	-0.795000E+00	-0.151920E+01	-0.263700E+00	-0.835600E+00
9.600	-0.103240E+01	0.268750E+01	0.333690E+01	-0.690400E+00	-0.157470E+01	-0.209300E+00	-0.921200E+00
9.800	-0.982400E+00	0.261540E+01	0.341580E+01	-0.580700E+00	-0.162880E+01	-0.148500E+00	-0.990400E+00
10.000	-0.926700E+00	0.253390E+01	0.348320E+01	-0.461800E+00	-0.167870E+01	-0.777000E-01	-0.105220E+01
10.200	-0.865800E+00	0.244370E+01	0.353890E+01	-0.332400E+00	-0.172080E+01	-0.112000E-01	-0.110860E+01
10.400	-0.800700E+00	0.234530E+01	0.358310E+01	-0.193700E+00	-0.175160E+01	0.139000E+00	-0.115430E+01
10.600	-0.732600E+00	0.223940E+01	0.361590E+01	-0.499000E-01	-0.176820E+01	0.372100E+00	-0.115820E+01
10.800	-0.662700E+00	0.212690E+01	0.363790E+01	0.930000E-01	-0.176900E+01	0.846500E+00	-0.946100E+00
11.000	-0.592800E+00	0.200890E+01	0.364970E+01	0.228900E+00	-0.175460E+01	0.121260E+01	-0.522300E+00
11.200	-0.524100E+00	0.188680E+01	0.365230E+01	0.353500E+00	-0.172670E+01	0.133590E+01	-0.295800E+00
11.400	-0.458000E+00	0.176200E+01	0.364670E+01	0.465100E+00	-0.168700E+01	0.140150E+01	-0.178900E+00
11.600	-0.395700E+00	0.163630E+01	0.363420E+01	0.564100E+00	-0.163700E+01	0.145060E+01	-0.105900E+00
11.800	-0.337900E+00	0.151130E+01	0.361610E+01	0.651400E+00	-0.157680E+01	0.149250E+01	-0.548000E-01
12.000	-0.285200E+00	0.138870E+01	0.359370E+01	0.728000E+00	-0.150620E+01	0.153080E+01	-0.168000E-01
12.200	-0.237800E+00	0.127010E+01	0.356810E+01	0.794700E+00	-0.142420E+01	0.156750E+01	0.123000E-01
12.400	-0.195800E+00	0.115670E+01	0.354070E+01	0.851900E+00	-0.132980E+01	0.160390E+01	0.350000E-01
12.600	-0.159000E+00	0.104970E+01	0.351240E+01	0.900100E+00	-0.122200E+01	0.164010E+01	0.528000E-01
12.800	-0.126900E+00	0.949800E+00	0.348420E+01	0.939000E+00	-0.110080E+01	0.167500E+01	0.669000E-01
13.000	-0.993000E-01	0.857400E+00	0.345690E+01	0.969100E+00	-0.967600E+00	0.170620E+01	0.782000E-01
13.200	-0.757000E-01	0.772800E+00	0.343120E+01	0.990500E+00	-0.826200E+00	0.173050E+01	0.876000E-01
13.400	-0.555000E-01	0.695800E+00	0.340750E+01	0.100380E+01	-0.682900E+00	0.174430E+01	0.957000E-01
13.600	-0.385000E-01	0.626300E+00	0.338610E+01	0.100920E+01	-0.544700E+00	0.174600E+01	0.103300E+00
13.800	-0.241000E-01	0.563800E+00	0.336730E+01	0.100740E+01	-0.418200E+00	0.173570E+01	0.111000E+00
14.000	-0.121000E-01	0.507800E+00	0.335100E+01	0.998900E+00	-0.307200E+00	0.171510E+01	0.119500E+00
14.200	-0.200000E-02	0.457900E+00	0.333710E+01	0.984300E+00	-0.213000E+00	0.168710E+01	0.129700E+00
14.400	0.640000E-02	0.413400E+00	0.332560E+01	0.964200E+00	-0.134900E+00	0.165420E+01	0.142400E+00
14.600	0.133000E-01	0.373900E+00	0.331620E+01	0.939400E+00	-0.710000E-01	0.161810E+01	0.158700E+00
14.800	0.190000E-01	0.338800E+00	0.330860E+01	0.910500E+00	-0.191000E-01	0.158020E+01	0.180300E+00
15.000	0.237000E-01	0.307700E+00	0.330250E+01	0.878200E+00	0.230000E-01	0.154090E+01	0.209500E+00
15.200	0.274000E-01	0.280000E+00	0.329770E+01	0.843200E+00	0.571000E-01	0.149950E+01	0.250000E+00
15.400	0.305000E-01	0.255400E+00	0.329380E+01	0.806100E+00	0.846000E-01	0.145410E+01	0.307700E+00
15.600	0.328000E-01	0.233500E+00	0.329060E+01	0.767500E+00	0.106900E+00	0.139960E+01	0.392400E+00
15.800	0.347000E-01	0.214100E+00	0.328800E+01	0.728100E+00	0.125000E+00	0.132380E+01	0.519100E+00
16.000	0.361000E-01	0.196700E+00	0.328560E+01	0.688400E+00	0.139700E+00	0.120270E+01	0.700100E+00
16.200	0.371000E-01	0.181200E+00	0.328340E+01	0.648800E+00	0.151600E+00	0.101470E+01	0.908800E+00
16.400	0.378000E-01	0.167300E+00	0.328130E+01	0.609800E+00	0.161100E+00	0.798200E+00	0.106820E+01
16.600	0.382000E-01	0.154800E+00	0.327910E+01	0.571500E+00	0.168600E+00	0.621600E+00	0.114850E+01
16.800	0.384000E-01	0.143600E+00	0.327680E+01	0.534400E+00	0.174400E+00	0.499300E+00	0.117710E+01
17.000	0.384000E-01	0.133500E+00	0.327440E+01	0.498600E+00	0.178700E+00	0.416700E+00	0.118020E+01
17.200	0.382000E-01	0.124400E+00	0.327190E+01	0.464400E+00	0.181700E+00	0.359200E+00	0.117100E+01
17.400	0.379000E-01	0.116100E+00	0.326920E+01	0.431700E+00	0.183500E+00	0.317500E+00	0.115530E+01
17.600	0.375000E-01	0.108700E+00	0.326640E+01	0.400800E+00	0.184300E+00	0.286200E+00	0.113590E+01
17.800	0.370000E-01	0.101900E+00	0.326350E+01	0.371700E+00	0.184100E+00	0.261800E+00	0.111410E+01
18.000	0.364000E-01	0.957000E-01	0.326050E+01	0.344300E+00	0.183100E+00	0.242400E+00	0.109100E+01
18.200	0.358000E-01	0.900000E-01	0.325740E+01	0.318700E+00	0.181200E+00	0.226400E+00	0.106650E+01
18.400	0.351000E-01	0.848000E-01	0.325430E+01	0.294800E+00	0.178800E+00	0.213100E+00	0.104110E+01
18.600	0.344000E-01	0.801000E-01	0.325110E+01	0.272700E+00	0.175800E+00	0.201700E+00	0.101530E+01

1								
2								
3	18.800	0.337000E-01	0.757000E-01	0.324790E+01	0.252200E+00	0.172200E+00	0.191900E+00	0.988900E+00
4	19.000	0.330000E-01	0.717000E-01	0.324470E+01	0.233200E+00	0.167800E+00	0.183900E+00	0.963700E+00
5	19.200	0.322000E-01	0.680000E-01	0.324140E+01	0.215900E+00	0.163700E+00	0.176200E+00	0.936900E+00
6	19.400	0.315000E-01	0.645000E-01	0.323820E+01	0.199900E+00	0.159200E+00	0.169300E+00	0.910800E+00
7	19.600	0.307000E-01	0.613000E-01	0.323510E+01	0.185300E+00	0.154700E+00	0.163100E+00	0.885000E+00
8	19.800	0.299000E-01	0.583000E-01	0.323190E+01	0.171900E+00	0.149700E+00	0.157600E+00	0.860100E+00
9	20.000	0.292000E-01	0.556000E-01	0.322880E+01	0.159700E+00	0.145000E+00	0.152300E+00	0.835200E+00
10	20.200	0.284000E-01	0.530000E-01	0.322580E+01	0.148500E+00	0.140400E+00	0.147500E+00	0.811000E+00
11	20.400	0.277000E-01	0.506000E-01	0.322280E+01	0.138300E+00	0.135900E+00	0.142900E+00	0.787500E+00
12	20.600	0.270000E-01	0.483000E-01	0.321990E+01	0.128900E+00	0.131400E+00	0.138700E+00	0.764800E+00
13	20.800	0.263000E-01	0.462000E-01	0.321700E+01	0.120400E+00	0.127100E+00	0.134700E+00	0.742700E+00
14	21.000	0.256000E-01	0.443000E-01	0.321420E+01	0.112600E+00	0.123000E+00	0.130900E+00	0.721200E+00
15	21.200	0.249000E-01	0.424000E-01	0.321140E+01	0.105400E+00	0.119100E+00	0.127300E+00	0.700100E+00
16	21.400	0.242000E-01	0.406000E-01	0.320880E+01	0.988000E-01	0.115300E+00	0.123900E+00	0.678600E+00
17	21.600	0.236000E-01	0.390000E-01	0.320610E+01	0.929000E-01	0.111800E+00	0.120500E+00	0.653400E+00
18	21.800	0.230000E-01	0.374000E-01	0.320360E+01	0.873000E-01	0.108500E+00	0.117400E+00	0.595000E+00
19	22.000	0.223000E-01	0.359000E-01	0.320110E+01	0.823000E-01	0.105400E+00	0.114400E+00	0.248700E+00
20	22.200	0.217000E-01	0.345000E-01	0.319870E+01	0.776000E-01	0.102500E+00	0.111400E+00	0.798000E-01
21	22.400	0.212000E-01	0.332000E-01	0.319630E+01	0.733000E-01	0.997000E-01	0.108600E+00	0.327000E-01
22	22.600	0.206000E-01	0.320000E-01	0.319400E+01	0.694000E-01	0.973000E-01	0.105800E+00	0.107000E-01
23	22.800	0.201000E-01	0.308000E-01	0.319180E+01	0.657000E-01	0.948000E-01	0.103300E+00	0.190000E-02
24	23.000	0.195000E-01	0.296000E-01	0.318960E+01	0.623000E-01	0.927000E-01	0.100700E+00	0.104000E-01
25	23.200	0.190000E-01	0.286000E-01	0.318750E+01	0.592000E-01	0.907000E-01	0.982000E-01	0.166000E-01
26	23.400	0.185000E-01	0.275000E-01	0.318540E+01	0.563000E-01	0.890000E-01	0.958000E-01	0.213000E-01
27	23.600	0.180000E-01	0.265000E-01	0.318340E+01	0.536000E-01	0.874000E-01	0.934000E-01	0.250000E-01
28	23.800	0.176000E-01	0.256000E-01	0.318140E+01	0.511000E-01	0.860000E-01	0.910000E-01	0.278000E-01
29	24.000	0.171000E-01	0.247000E-01	0.317950E+01	0.487000E-01	0.847000E-01	0.887000E-01	0.301000E-01
30	24.200	0.167000E-01	0.239000E-01	0.317770E+01	0.466000E-01	0.835000E-01	0.864000E-01	0.318000E-01
31	24.400	0.162000E-01	0.231000E-01	0.317590E+01	0.445000E-01	0.825000E-01	0.842000E-01	0.332000E-01
32	24.800	0.154000E-01	0.215000E-01	0.317240E+01	0.409000E-01	0.808000E-01	0.799000E-01	0.347000E-01
33	25.000	0.150000E-01	0.208000E-01	0.317070E+01	0.392000E-01	0.801000E-01	0.778000E-01	0.351000E-01
34	25.400	0.143000E-01	0.195000E-01	0.316750E+01	0.362000E-01	0.789000E-01	0.736000E-01	0.353000E-01
35	25.600	0.139000E-01	0.189000E-01	0.316600E+01	0.348000E-01	0.784000E-01	0.716000E-01	0.350000E-01
36	25.800	0.135000E-01	0.183000E-01	0.316450E+01	0.335000E-01	0.779000E-01	0.697000E-01	0.344000E-01
37	26.000	0.132000E-01	0.177000E-01	0.316300E+01	0.323000E-01	0.775000E-01	0.678000E-01	0.338000E-01
38	26.400	0.126000E-01	0.166000E-01	0.316020E+01	0.301000E-01	0.766000E-01	0.643000E-01	0.320000E-01
39	26.600	0.123000E-01	0.161000E-01	0.315890E+01	0.291000E-01	0.762000E-01	0.626000E-01	0.310000E-01
40	26.800	0.120000E-01	0.156000E-01	0.315760E+01	0.281000E-01	0.758000E-01	0.610000E-01	0.298000E-01
41	27.000	0.117000E-01	0.152000E-01	0.315630E+01	0.271000E-01	0.752000E-01	0.596000E-01	0.283000E-01
42	27.200	0.114000E-01	0.147000E-01	0.315510E+01	0.263000E-01	0.748000E-01	0.581000E-01	0.270000E-01
43	27.400	0.111000E-01	0.143000E-01	0.315390E+01	0.254000E-01	0.745000E-01	0.566000E-01	0.258000E-01
44	27.600	0.109000E-01	0.138000E-01	0.315270E+01	0.247000E-01	0.741000E-01	0.551000E-01	0.244000E-01
45	28.000	0.104000E-01	0.131000E-01	0.315040E+01	0.232000E-01	0.733000E-01	0.524000E-01	0.216000E-01
46	28.200	0.101000E-01	0.127000E-01	0.314930E+01	0.225000E-01	0.729000E-01	0.511000E-01	0.202000E-01
47	28.600	0.970000E-02	0.120000E-01	0.314720E+01	0.212000E-01	0.721000E-01	0.486000E-01	0.174000E-01
48	28.800	0.950000E-02	0.116000E-01	0.314620E+01	0.207000E-01	0.717000E-01	0.475000E-01	0.161000E-01
49	29.400	0.890000E-02	0.107000E-01	0.314330E+01	0.190000E-01	0.705000E-01	0.441000E-01	0.121000E-01
50	30.200	0.820000E-02	0.960000E-02	0.313980E+01	0.171000E-01	0.690000E-01	0.400000E-01	0.760000E-02
51	30.400	0.800000E-02	0.930000E-02	0.313900E+01	0.167000E-01	0.687000E-01	0.390000E-01	0.670000E-02
52	31.400	0.720000E-02	0.820000E-02	0.313500E+01	0.148000E-01	0.670000E-01	0.342000E-01	0.280000E-02
53	31.600	0.710000E-02	0.800000E-02	0.313440E+01	0.144000E-01	0.667000E-01	0.333000E-01	0.220000E-02
54	31.800	0.700000E-02	0.780000E-02	0.313370E+01	0.141000E-01	0.664000E-01	0.325000E-01	0.160000E-02

Table 5: $(2)^3\Pi - (2-7)^3\Pi$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.000	0.127580E+01	0.527600E+00	0.629300E+00	-0.929900E+00	-0.139350E+01	-0.143700E+00
3.200	0.145050E+01	0.521900E+00	0.616100E+00	-0.910300E+00	-0.157630E+01	-0.895000E-01
3.400	0.160750E+01	0.518900E+00	0.640800E+00	-0.861200E+00	-0.174960E+01	-0.598000E-01
3.800	0.189650E+01	0.529200E+00	0.773100E+00	-0.707200E+00	-0.209060E+01	-0.344000E-01
4.000	0.202870E+01	0.583400E+00	0.846100E+00	-0.610100E+00	-0.225900E+01	-0.305000E-01
4.200	0.214740E+01	0.963600E+00	0.607200E+00	-0.499800E+00	-0.242360E+01	-0.300000E-01
4.400	0.224760E+01	0.126250E+01	0.106500E+00	-0.374400E+00	-0.258090E+01	-0.317000E-01
4.600	0.232570E+01	0.139580E+01	0.181400E+00	-0.230700E+00	-0.272690E+01	-0.350000E-01
4.800	0.237930E+01	0.154700E+01	0.167300E+00	0.658000E-01	-0.285750E+01	-0.393000E-01
5.200	0.241260E+01	0.186080E+01	0.331000E-01	0.336800E+00	-0.305180E+01	-0.522000E-01
5.400	0.239520E+01	0.201280E+01	-0.954000E-01	0.572500E+00	-0.310230E+01	-0.616000E-01
5.600	0.235840E+01	0.215750E+01	-0.280700E+00	0.820000E+00	-0.311070E+01	-0.733000E-01
5.800	0.230470E+01	0.229310E+01	-0.520400E+00	0.106550E+01	-0.306890E+01	-0.877000E-01
6.000	0.223680E+01	0.241850E+01	-0.773600E+00	0.130810E+01	-0.297240E+01	-0.105200E+00
6.200	0.215700E+01	0.253340E+01	-0.968500E+00	0.156750E+01	-0.282710E+01	-0.125400E+00
6.400	0.206710E+01	0.263800E+01	-0.105560E+01	0.184960E+01	-0.264820E+01	-0.148400E+00
6.600	0.196860E+01	0.273290E+01	-0.103910E+01	0.212610E+01	-0.245500E+01	-0.173900E+00
6.800	0.186260E+01	0.281910E+01	-0.954500E+00	0.236300E+01	-0.226390E+01	-0.201900E+00
7.000	0.174970E+01	0.289760E+01	-0.834100E+00	0.254530E+01	-0.208610E+01	-0.232600E+00
7.200	0.163060E+01	0.297020E+01	-0.691700E+00	0.267460E+01	-0.192510E+01	-0.267900E+00
7.400	0.150530E+01	0.303670E+01	-0.524200E+00	0.275800E+01	-0.178450E+01	-0.305500E+00
7.600	0.137390E+01	0.309670E+01	-0.305200E+00	0.280420E+01	-0.166230E+01	-0.348100E+00
7.800	0.123660E+01	0.313960E+01	0.343000E-01	0.281970E+01	-0.155590E+01	-0.397300E+00
8.000	0.109350E+01	0.309230E+01	0.677300E+00	0.281020E+01	-0.146330E+01	-0.457000E+00
8.200	0.944400E+00	0.262550E+01	0.180930E+01	0.278010E+01	-0.138390E+01	-0.532600E+00
8.400	0.790700E+00	0.184490E+01	0.262700E+01	0.273420E+01	-0.131340E+01	-0.643500E+00
8.600	0.632400E+00	0.135120E+01	0.293380E+01	0.267590E+01	-0.125260E+01	-0.828000E+00
8.800	0.471400E+00	0.104880E+01	0.307530E+01	0.260990E+01	-0.119800E+01	-0.119430E+01
9.000	0.308700E+00	0.826100E+00	0.316220E+01	0.254080E+01	-0.114950E+01	-0.183060E+01
9.200	0.146200E+00	0.637000E+00	0.322550E+01	0.247380E+01	-0.110680E+01	-0.227480E+01
9.400	-0.140000E-01	0.461500E+00	0.327560E+01	0.241470E+01	-0.106960E+01	-0.247850E+01
9.600	-0.169600E+00	0.290800E+00	0.331590E+01	0.236930E+01	-0.103880E+01	-0.258270E+01
9.800	-0.318200E+00	0.121000E+00	0.334680E+01	0.234300E+01	-0.101750E+01	-0.261960E+01
10.000	-0.457300E+00	-0.487000E-01	0.336740E+01	0.233970E+01	-0.101100E+01	-0.259730E+01
10.200	-0.584400E+00	-0.217700E+00	0.337640E+01	0.236060E+01	-0.103270E+01	-0.251780E+01
10.400	-0.697100E+00	-0.384000E+00	0.337320E+01	0.240270E+01	-0.111640E+01	-0.236860E+01
10.600	-0.793200E+00	-0.545000E+00	0.335920E+01	0.245860E+01	-0.135910E+01	-0.207940E+01
10.800	-0.870900E+00	-0.697600E+00	0.333720E+01	0.251760E+01	-0.189040E+01	-0.135020E+01
11.000	-0.928900E+00	-0.838600E+00	0.331040E+01	0.256980E+01	-0.208410E+01	-0.485900E+00
11.200	-0.966700E+00	-0.965000E+00	0.328030E+01	0.260850E+01	-0.193320E+01	-0.154100E+00
11.400	-0.984300E+00	-0.107400E+01	0.324610E+01	0.263130E+01	-0.172530E+01	-0.431000E-01
11.600	-0.982800E+00	-0.116340E+01	0.320500E+01	0.263940E+01	-0.150290E+01	-0.800000E-02
11.800	-0.964000E+00	-0.123140E+01	0.315400E+01	0.263510E+01	-0.127380E+01	0.340000E-02
12.000	-0.930300E+00	-0.127760E+01	0.309110E+01	0.262050E+01	-0.103980E+01	0.116000E-01
12.200	-0.884700E+00	-0.130190E+01	0.301560E+01	0.259690E+01	-0.801300E+00	0.243000E-01
12.400	-0.830300E+00	-0.130540E+01	0.292830E+01	0.256390E+01	-0.558500E+00	0.371000E-01
12.600	-0.770200E+00	-0.129000E+01	0.283070E+01	0.251980E+01	-0.310900E+00	0.478000E-01
12.800	-0.707300E+00	-0.125770E+01	0.272480E+01	0.246180E+01	0.606000E-01	0.551000E-01
13.000	-0.644100E+00	-0.121120E+01	0.261280E+01	0.238720E+01	0.189700E+00	0.590000E-01
13.200	-0.582600E+00	-0.115340E+01	0.249680E+01	0.229430E+01	0.433600E+00	0.595000E-01
13.400	-0.524100E+00	-0.108710E+01	0.237890E+01	0.218420E+01	0.663000E+00	0.576000E-01
13.600	-0.469500E+00	-0.101480E+01	0.226070E+01	0.206130E+01	0.869800E+00	0.543000E-01
13.800	-0.419500E+00	-0.938900E+00	0.214340E+01	0.193190E+01	0.104930E+01	0.510000E-01
14.000	-0.374300E+00	-0.861400E+00	0.202800E+01	0.180290E+01	0.120040E+01	0.489000E-01
14.200	-0.333700E+00	-0.784000E+00	0.191530E+01	0.167940E+01	0.132550E+01	0.499000E-01
14.400	-0.297600E+00	-0.708100E+00	0.180570E+01	0.156440E+01	0.142860E+01	0.556000E-01
14.600	-0.265700E+00	-0.634700E+00	0.169950E+01	0.145930E+01	0.151420E+01	0.684000E-01
14.800	-0.237500E+00	-0.564800E+00	0.159700E+01	0.136430E+01	0.158630E+01	0.907000E-01
15.000	-0.212800E+00	-0.498900E+00	0.149810E+01	0.127880E+01	0.164790E+01	0.126400E+00
15.200	-0.191200E+00	-0.437400E+00	0.140330E+01	0.120220E+01	0.170050E+01	0.180800E+00
15.400	-0.172200E+00	-0.380400E+00	0.131190E+01	0.113270E+01	0.174330E+01	0.264100E+00
15.600	-0.155500E+00	-0.328200E+00	0.122430E+01	0.107010E+01	0.177110E+01	0.391700E+00
15.800	-0.140800E+00	-0.280600E+00	0.114050E+01	0.101320E+01	0.176790E+01	0.589100E+00
16.000	-0.128000E+00	-0.237600E+00	0.106040E+01	0.961400E+00	0.169710E+01	0.882800E+00
16.200	-0.116600E+00	-0.199000E+00	0.984000E+00	0.913900E+00	0.151590E+01	0.124730E+01
16.400	-0.106600E+00	-0.164500E+00	0.911300E+00	0.870000E+00	0.126260E+01	0.156970E+01
16.600	-0.978000E-01	-0.133800E+00	0.842500E+00	0.829700E+00	0.103660E+01	0.178920E+01
16.800	-0.899000E-01	-0.106800E+00	0.777200E+00	0.791700E+00	0.871500E+00	0.193550E+01
17.000	-0.829000E-01	-0.829000E-01	0.715500E+00	0.755900E+00	0.755000E+00	0.204440E+01
17.200	-0.766000E-01	-0.621000E-01	0.657400E+00	0.722100E+00	0.670600E+00	0.213500E+01
17.400	-0.710000E-01	-0.439000E-01	0.603000E+00	0.689800E+00	0.606800E+00	0.221610E+01
17.600	-0.659000E-01	-0.281000E-01	0.552100E+00	0.658800E+00	0.556500E+00	0.229200E+01
17.800	-0.614000E-01	-0.145000E-01	0.504800E+00	0.629000E+00	0.515500E+00	0.236460E+01
18.000	-0.572000E-01	-0.280000E-02	0.460900E+00	0.600300E+00	0.481200E+00	0.243470E+01
18.200	-0.535000E-01	0.730000E-02	0.420400E+00	0.572400E+00	0.451500E+00	0.250250E+01
18.400	-0.500000E-01	0.159000E-01	0.383100E+00	0.545300E+00	0.425500E+00	0.256780E+01
18.600	-0.469000E-01	0.232000E-01	0.349000E+00	0.519000E+00	0.402300E+00	0.263020E+01

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18.800	-0.440000E-01	0.294000E-01	0.317900E+00	0.493500E+00	0.381400E+00	0.268970E+01
19.000	-0.413000E-01	0.346000E-01	0.289200E+00	0.467000E+00	0.360600E+00	0.274240E+01
19.200	-0.389000E-01	0.389000E-01	0.263500E+00	0.443000E+00	0.342900E+00	0.279440E+01
19.400	-0.366000E-01	0.424000E-01	0.240400E+00	0.419800E+00	0.326700E+00	0.284250E+01
19.600	-0.345000E-01	0.453000E-01	0.219500E+00	0.397400E+00	0.311500E+00	0.288660E+01
19.800	-0.325000E-01	0.477000E-01	0.200700E+00	0.376200E+00	0.297600E+00	0.292660E+01
20.000	-0.307000E-01	0.496000E-01	0.183800E+00	0.355500E+00	0.284400E+00	0.296250E+01
20.200	-0.290000E-01	0.510000E-01	0.168600E+00	0.335800E+00	0.272000E+00	0.299450E+01
20.400	-0.274000E-01	0.521000E-01	0.155000E+00	0.316900E+00	0.260500E+00	0.302250E+01
20.600	-0.259000E-01	0.529000E-01	0.142700E+00	0.298800E+00	0.249500E+00	0.304670E+01
20.800	-0.245000E-01	0.534000E-01	0.131700E+00	0.281600E+00	0.239300E+00	0.306700E+01
21.000	-0.232000E-01	0.537000E-01	0.121800E+00	0.265200E+00	0.229600E+00	0.308320E+01
21.200	-0.219000E-01	0.538000E-01	0.113000E+00	0.249600E+00	0.220400E+00	0.309430E+01
21.400	-0.208000E-01	0.537000E-01	0.105000E+00	0.234700E+00	0.211800E+00	0.309680E+01
21.600	-0.197000E-01	0.535000E-01	0.977000E-01	0.220600E+00	0.203700E+00	0.307500E+01
21.800	-0.186000E-01	0.532000E-01	0.912000E-01	0.207200E+00	0.196000E+00	0.288160E+01
22.000	-0.176000E-01	0.528000E-01	0.853000E-01	0.194500E+00	0.188800E+00	0.123410E+01
22.200	-0.167000E-01	0.523000E-01	0.800000E-01	0.182400E+00	0.181900E+00	0.419200E+00
22.400	-0.158000E-01	0.517000E-01	0.751000E-01	0.171000E+00	0.175400E+00	0.200700E+00
22.600	-0.150000E-01	0.511000E-01	0.707000E-01	0.160100E+00	0.169200E+00	0.106000E+00
22.800	-0.142000E-01	0.504000E-01	0.667000E-01	0.150000E+00	0.163500E+00	0.545000E-01
23.000	-0.135000E-01	0.497000E-01	0.630000E-01	0.140200E+00	0.158100E+00	0.225000E-01
23.200	-0.128000E-01	0.489000E-01	0.596000E-01	0.131000E+00	0.152800E+00	0.100000E-02
23.400	-0.121000E-01	0.482000E-01	0.565000E-01	0.122200E+00	0.147900E+00	0.141000E-01
23.600	-0.115000E-01	0.474000E-01	0.537000E-01	0.113800E+00	0.143200E+00	0.251000E-01
23.800	-0.109000E-01	0.466000E-01	0.510000E-01	0.105900E+00	0.138700E+00	0.333000E-01
24.000	-0.103000E-01	0.458000E-01	0.486000E-01	0.984000E-01	0.134400E+00	0.395000E-01
24.200	-0.970000E-02	0.450000E-01	0.464000E-01	0.913000E-01	0.130300E+00	0.442000E-01
24.400	-0.920000E-02	0.442000E-01	0.443000E-01	0.846000E-01	0.126400E+00	0.478000E-01
24.800	-0.830000E-02	0.427000E-01	0.406000E-01	0.723000E-01	0.119000E+00	0.526000E-01
25.000	-0.780000E-02	0.419000E-01	0.389000E-01	0.667000E-01	0.115400E+00	0.541000E-01
25.400	-0.700000E-02	0.404000E-01	0.358000E-01	0.563000E-01	0.108700E+00	0.560000E-01
25.600	-0.660000E-02	0.396000E-01	0.345000E-01	0.517000E-01	0.105500E+00	0.564000E-01
25.800	-0.620000E-02	0.389000E-01	0.332000E-01	0.473000E-01	0.102400E+00	0.565000E-01
26.000	-0.590000E-02	0.381000E-01	0.319000E-01	0.433000E-01	0.994000E-01	0.564000E-01
26.400	-0.520000E-02	0.367000E-01	0.297000E-01	0.361000E-01	0.937000E-01	0.557000E-01
26.600	-0.490000E-02	0.360000E-01	0.287000E-01	0.329000E-01	0.909000E-01	0.551000E-01
26.800	-0.460000E-02	0.353000E-01	0.277000E-01	0.299000E-01	0.883000E-01	0.544000E-01
27.000	-0.430000E-02	0.347000E-01	0.268000E-01	0.272000E-01	0.856000E-01	0.539000E-01
27.200	-0.410000E-02	0.340000E-01	0.259000E-01	0.247000E-01	0.831000E-01	0.530000E-01
27.400	-0.380000E-02	0.334000E-01	0.250000E-01	0.224000E-01	0.806000E-01	0.522000E-01
27.600	-0.360000E-02	0.327000E-01	0.242000E-01	0.203000E-01	0.783000E-01	0.513000E-01
28.000	-0.310000E-02	0.315000E-01	0.228000E-01	0.167000E-01	0.738000E-01	0.492000E-01
28.200	-0.290000E-02	0.309000E-01	0.221000E-01	0.152000E-01	0.716000E-01	0.482000E-01
28.600	-0.250000E-02	0.298000E-01	0.208000E-01	0.125000E-01	0.676000E-01	0.460000E-01
28.800	-0.230000E-02	0.293000E-01	0.202000E-01	0.113000E-01	0.657000E-01	0.448000E-01
29.400	-0.180000E-02	0.277000E-01	0.185000E-01	0.850000E-02	0.603000E-01	0.413000E-01
30.200	-0.120000E-02	0.257000E-01	0.165000E-01	0.570000E-02	0.540000E-01	0.369000E-01
30.400	-0.110000E-02	0.253000E-01	0.161000E-01	0.520000E-02	0.525000E-01	0.358000E-01
31.400	-0.500000E-03	0.231000E-01	0.141000E-01	0.320000E-02	0.459000E-01	0.307000E-01
31.600	-0.400000E-03	0.227000E-01	0.137000E-01	0.290000E-02	0.447000E-01	0.298000E-01
31.800	-0.300000E-03	0.223000E-01	0.134000E-01	0.260000E-02	0.435000E-01	0.289000E-01

Table 6: $(3)^3\Pi - (3-7)^3\Pi$ transitions

R	3-3	3-4	3-5	3-6	3-7
3.000	0.411700E+00	0.173600E+00	0.214100E+00	0.251800E+00	-0.116900E+00
3.200	0.405200E+00	0.140000E+00	0.249300E+00	0.215700E+00	-0.120000E+00
3.400	0.401500E+00	0.967000E-01	0.301500E+00	0.207500E+00	-0.122800E+00
3.800	0.406100E+00	-0.933000E-01	0.515700E+00	0.242500E+00	-0.173100E+00
4.000	0.374000E+00	-0.447100E+00	-0.854200E+00	0.250800E+00	-0.313900E+00
4.200	-0.971500E+00	-0.222080E+01	-0.269510E+01	0.842000E-01	-0.122010E+01
4.400	-0.404990E+01	-0.142230E+01	-0.431770E+01	0.130800E+00	-0.203530E+01
4.600	-0.426150E+01	-0.102860E+01	-0.450050E+01	0.230000E-02	-0.204840E+01
4.800	-0.427330E+01	-0.948000E+00	-0.462660E+01	-0.216400E+00	-0.202250E+01
5.200	-0.417740E+01	-0.104830E+01	-0.479970E+01	-0.838900E+00	-0.193910E+01
5.400	-0.410120E+01	-0.116940E+01	-0.482610E+01	-0.125130E+01	-0.188630E+01
5.600	-0.401250E+01	-0.130870E+01	-0.479440E+01	-0.172940E+01	-0.182820E+01
5.800	-0.391360E+01	-0.140980E+01	-0.470440E+01	-0.226140E+01	-0.176650E+01
6.000	-0.380620E+01	-0.138280E+01	-0.457810E+01	-0.282500E+01	-0.170200E+01
6.200	-0.369160E+01	-0.117250E+01	-0.443230E+01	-0.339480E+01	-0.163530E+01
6.400	-0.357030E+01	-0.823700E+00	-0.425060E+01	-0.394480E+01	-0.156660E+01
6.600	-0.344200E+01	-0.437900E+00	-0.401580E+01	-0.445220E+01	-0.149570E+01
6.800	-0.330560E+01	-0.895000E-01	-0.374080E+01	-0.490300E+01	-0.142190E+01
7.000	-0.315850E+01	0.200100E+00	-0.345290E+01	-0.529560E+01	-0.134390E+01
7.200	-0.299720E+01	0.442700E+00	-0.317450E+01	-0.563570E+01	-0.125580E+01
7.400	-0.280850E+01	0.660500E+00	-0.291120E+01	-0.593160E+01	-0.116150E+01
7.600	-0.257090E+01	0.880600E+00	-0.266090E+01	-0.618530E+01	-0.104890E+01
7.800	-0.222100E+01	0.113250E+01	-0.240200E+01	-0.637150E+01	-0.898300E+00
8.000	-0.156310E+01	0.139920E+01	-0.204900E+01	-0.632480E+01	-0.652300E+00
8.200	-0.380100E+00	0.120210E+01	-0.137320E+01	-0.534870E+01	-0.224400E+00
8.400	0.275200E+00	0.364200E+00	-0.669500E+00	-0.375710E+01	-0.111200E+00
8.600	0.347400E+00	0.190600E+00	-0.326600E+00	-0.283800E+01	-0.179500E+00
8.800	0.301100E+00	0.520600E+00	-0.171100E+00	-0.236440E+01	0.399000E-01
9.000	0.228400E+00	0.758600E+00	-0.962000E-01	-0.209330E+01	0.379900E+00
9.200	0.141800E+00	0.958300E+00	-0.601000E-01	-0.192470E+01	0.795700E+00
9.400	0.413000E-01	0.114280E+01	-0.431000E-01	-0.181610E+01	0.104580E+01
9.600	-0.750000E-01	0.132340E+01	-0.327000E-01	-0.174670E+01	0.121970E+01
9.800	-0.208600E+00	0.150630E+01	-0.193000E-01	-0.170700E+01	0.134990E+01
10.000	-0.360300E+00	0.169460E+01	0.510000E-02	-0.169520E+01	0.144290E+01
10.200	-0.529800E+00	0.188950E+01	0.467000E-01	-0.171590E+01	0.148980E+01
10.400	-0.716300E+00	0.209080E+01	0.109200E+00	-0.179160E+01	0.145980E+01
10.600	-0.918300E+00	0.229740E+01	0.192600E+00	-0.198430E+01	0.123920E+01
10.800	-0.113320E+01	0.250810E+01	0.292600E+00	-0.231090E+01	0.452800E+00
11.000	-0.135830E+01	0.272210E+01	0.402700E+00	-0.231120E+01	0.460300E+00
11.200	-0.159040E+01	0.293880E+01	0.516600E+00	-0.220360E+01	0.804600E+00
11.400	-0.182560E+01	0.315790E+01	0.630700E+00	-0.212580E+01	0.934100E+00
11.600	-0.205980E+01	0.337780E+01	0.743600E+00	-0.205860E+01	0.991000E+00
11.800	-0.228920E+01	0.359750E+01	0.856500E+00	-0.199130E+01	0.101820E+01
12.000	-0.250900E+01	0.381440E+01	0.971000E+00	-0.191750E+01	0.103130E+01
12.200	-0.271490E+01	0.402650E+01	0.108840E+01	-0.183380E+01	0.103790E+01
12.400	-0.290270E+01	0.423160E+01	0.120930E+01	-0.173750E+01	0.104210E+01
12.600	-0.306840E+01	0.442760E+01	0.133290E+01	-0.162550E+01	0.104630E+01
12.800	-0.320950E+01	0.461370E+01	0.145740E+01	-0.149800E+01	0.105340E+01
13.000	-0.332330E+01	0.478840E+01	0.157830E+01	-0.135410E+01	0.106410E+01
13.200	-0.340810E+01	0.495020E+01	0.169020E+01	-0.119600E+01	0.107950E+01
13.400	-0.346300E+01	0.509830E+01	0.178760E+01	-0.102950E+01	0.110040E+01
13.600	-0.348810E+01	0.523160E+01	0.186640E+01	-0.862100E+00	0.112690E+01
13.800	-0.348390E+01	0.534930E+01	0.192580E+01	-0.701800E+00	0.115910E+01
14.000	-0.345190E+01	0.545050E+01	0.196720E+01	-0.554100E+00	0.119680E+01
14.200	-0.339400E+01	0.553440E+01	0.199410E+01	-0.421600E+00	0.123960E+01
14.400	-0.331260E+01	0.560040E+01	0.201020E+01	-0.303800E+00	0.128680E+01
14.600	-0.321060E+01	0.564820E+01	0.201870E+01	-0.198300E+00	0.133740E+01
14.800	-0.309110E+01	0.567760E+01	0.202240E+01	-0.101200E+00	0.139030E+01
15.000	-0.295740E+01	0.568870E+01	0.202330E+01	-0.690000E-02	0.144370E+01
15.200	-0.281270E+01	0.568160E+01	0.202200E+01	0.912000E-01	0.149520E+01
15.400	-0.266060E+01	0.565760E+01	0.202140E+01	0.204200E+00	0.154160E+01
15.600	-0.250400E+01	0.561760E+01	0.202130E+01	0.347900E+00	0.157490E+01
15.800	-0.234580E+01	0.556270E+01	0.202250E+01	0.546700E+00	0.157820E+01
16.000	-0.218860E+01	0.549450E+01	0.202520E+01	0.825500E+00	0.151600E+01
16.200	-0.203430E+01	0.541450E+01	0.202980E+01	0.116120E+01	0.134900E+01
16.400	-0.188490E+01	0.532460E+01	0.203640E+01	0.145250E+01	0.111540E+01
16.600	-0.174160E+01	0.522680E+01	0.204570E+01	0.164630E+01	0.908000E+00
16.800	-0.160530E+01	0.512220E+01	0.205590E+01	0.176950E+01	0.759700E+00
17.000	-0.147680E+01	0.501270E+01	0.206760E+01	0.185490E+01	0.658100E+00
17.200	-0.135640E+01	0.490000E+01	0.208020E+01	0.191970E+01	0.587600E+00
17.400	-0.124420E+01	0.478540E+01	0.209320E+01	0.197220E+01	0.537200E+00
17.600	-0.114020E+01	0.467030E+01	0.210610E+01	0.201660E+01	0.500100E+00
17.800	-0.104420E+01	0.455600E+01	0.211810E+01	0.205510E+01	0.471900E+00
18.000	-0.955900E+00	0.444340E+01	0.212880E+01	0.208910E+01	0.450000E+00
18.200	-0.874800E+00	0.433360E+01	0.213760E+01	0.211950E+01	0.432400E+00
18.400	-0.800700E+00	0.422730E+01	0.214400E+01	0.214690E+01	0.417900E+00
18.600	-0.732900E+00	0.412510E+01	0.214780E+01	0.217170E+01	0.405700E+00

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3	18.800	-0.671000E+00	0.402760E+01	0.214860E+01	0.219440E+01	0.394900E+00
4	19.000	-0.614600E+00	0.393490E+01	0.214520E+01	0.221430E+01	0.387000E+00
5	19.200	-0.563300E+00	0.384770E+01	0.214010E+01	0.223380E+01	0.378200E+00
6	19.400	-0.516600E+00	0.376590E+01	0.213200E+01	0.225210E+01	0.370000E+00
7	19.600	-0.474200E+00	0.368940E+01	0.212100E+01	0.226940E+01	0.362400E+00
8	19.800	-0.435500E+00	0.361820E+01	0.210730E+01	0.228540E+01	0.355100E+00
9	20.000	-0.400400E+00	0.355220E+01	0.209130E+01	0.230150E+01	0.348800E+00
10	20.200	-0.368500E+00	0.349110E+01	0.207300E+01	0.231720E+01	0.343300E+00
11	20.400	-0.339500E+00	0.343470E+01	0.205270E+01	0.233270E+01	0.339000E+00
12	20.600	-0.313100E+00	0.338270E+01	0.203070E+01	0.234830E+01	0.336500E+00
13	20.800	-0.289000E+00	0.333500E+01	0.200700E+01	0.236390E+01	0.336500E+00
14	21.000	-0.267200E+00	0.329110E+01	0.198190E+01	0.238000E+01	0.341100E+00
15	21.200	-0.247300E+00	0.325080E+01	0.195550E+01	0.239640E+01	0.353600E+00
16	21.400	-0.229100E+00	0.321380E+01	0.192790E+01	0.241350E+01	0.382900E+00
17	21.600	-0.212600E+00	0.317990E+01	0.189920E+01	0.243130E+01	0.457400E+00
18	21.800	-0.197500E+00	0.314890E+01	0.186950E+01	0.244980E+01	0.725000E+00
19	22.000	-0.183700E+00	0.312040E+01	0.183870E+01	0.246940E+01	0.139670E+01
20	22.200	-0.171100E+00	0.309430E+01	0.180700E+01	0.249000E+01	0.149430E+01
21	22.400	-0.159600E+00	0.307040E+01	0.177420E+01	0.251170E+01	0.152850E+01
22	22.600	-0.149100E+00	0.304850E+01	0.174030E+01	0.253460E+01	0.155860E+01
23	22.800	-0.139500E+00	0.302840E+01	0.170530E+01	0.255870E+01	0.158680E+01
24	23.000	-0.130600E+00	0.300990E+01	0.166920E+01	0.258410E+01	0.161270E+01
25	23.200	-0.122500E+00	0.299290E+01	0.163180E+01	0.261090E+01	0.163600E+01
26	23.400	-0.115100E+00	0.297740E+01	0.159320E+01	0.263890E+01	0.165650E+01
27	23.600	-0.108300E+00	0.296310E+01	0.155330E+01	0.266830E+01	0.167410E+01
28	23.800	-0.102000E+00	0.294990E+01	0.151200E+01	0.269890E+01	0.168870E+01
29	24.000	-0.962000E-01	0.293780E+01	0.146940E+01	0.273060E+01	0.170010E+01
30	24.200	-0.909000E-01	0.292660E+01	0.142540E+01	0.276350E+01	0.170820E+01
31	24.400	-0.860000E-01	0.291640E+01	0.138020E+01	0.279730E+01	0.171310E+01
32	24.800	-0.773000E-01	0.289810E+01	0.128610E+01	0.286720E+01	0.171330E+01
33	25.000	-0.735000E-01	0.289010E+01	0.123760E+01	0.290290E+01	0.170860E+01
34	25.400	-0.666000E-01	0.287570E+01	0.113850E+01	0.297500E+01	0.168980E+01
35	25.600	-0.635000E-01	0.286930E+01	0.108840E+01	0.301110E+01	0.167590E+01
36	25.800	-0.607000E-01	0.286340E+01	0.103830E+01	0.304690E+01	0.165920E+01
37	26.000	-0.580000E-01	0.285790E+01	0.988500E+00	0.308230E+01	0.163970E+01
38	26.400	-0.532000E-01	0.284810E+01	0.890700E+00	0.315130E+01	0.159300E+01
39	26.600	-0.511000E-01	0.284370E+01	0.843200E+00	0.318460E+01	0.156620E+01
40	26.800	-0.491000E-01	0.283960E+01	0.797000E+00	0.321710E+01	0.153730E+01
41	27.000	-0.472000E-01	0.283580E+01	0.752400E+00	0.324880E+01	0.150590E+01
42	27.200	-0.454000E-01	0.283220E+01	0.709200E+00	0.327930E+01	0.147350E+01
43	27.400	-0.438000E-01	0.282890E+01	0.667800E+00	0.330860E+01	0.143970E+01
44	27.600	-0.422000E-01	0.282570E+01	0.628100E+00	0.333700E+01	0.140470E+01
45	28.000	-0.394000E-01	0.282010E+01	0.554500E+00	0.339020E+01	0.133190E+01
46	28.200	-0.381000E-01	0.281750E+01	0.520600E+00	0.341510E+01	0.129470E+01
47	28.600	-0.358000E-01	0.281280E+01	0.458300E+00	0.346130E+01	0.122000E+01
48	28.800	-0.347000E-01	0.281060E+01	0.429900E+00	0.348280E+01	0.118280E+01
49	30.200	-0.285000E-01	0.279850E+01	0.275300E+00	0.360230E+01	0.943400E+00
50	30.400	-0.278000E-01	0.279720E+01	0.258600E+00	0.361550E+01	0.913500E+00
51	31.400	-0.246000E-01	0.279110E+01	0.190700E+00	0.366890E+01	0.783400E+00
52	31.600	-0.241000E-01	0.279010E+01	0.179800E+00	0.367740E+01	0.761300E+00
53	31.800	-0.236000E-01	0.278910E+01	0.169500E+00	0.368520E+01	0.740300E+00

The following tables display the potential energy curves of **NaK** for the eight lowest $^1\Sigma$ states, the eight lowest $^1\Pi$ states, and the four lowest $^1\Delta$ states, (Tables 1 to 3) and the seven lowest $^3\Sigma$ states, the eight lowest $^3\Pi$ states, and the four lowest $^3\Delta$ states (Tables 4 to 6). Distances (first column) and energies are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 219474.63137 cm⁻¹. The curves are computed using the large basis set for both atoms, as described in the accompanying paper. The origin of energies is defined at the ionisation limit for both atoms.

Table 1: (1-8) $^1\Sigma^+$

3.000	-0.2799738388	-0.2004763590	-0.1741000434	-0.1520266635	-0.1378262133	-0.1305467723	-0.1225726893	-0.1211343346
3.200	-0.2883207589	-0.2087912718	-0.1829441195	-0.1613325370	-0.1470314125	-0.1399415765	-0.1326952977	-0.1306513431
3.400	-0.2971297263	-0.2176551510	-0.1920735035	-0.1711339249	-0.1567942569	-0.1499003237	-0.1431341500	-0.1406363532
3.800	-0.3149055553	-0.2359498219	-0.2101775602	-0.1910445535	-0.1768216770	-0.1700217000	-0.1637527781	-0.1609155280
4.000	-0.3234273942	-0.2450019249	-0.2189001615	-0.2007244559	-0.1866344374	-0.1796862389	-0.1736161026	-0.1707969888
4.200	-0.3314631428	-0.2537756705	-0.2272833531	-0.2099755822	-0.1960516206	-0.1888955631	-0.1830070968	-0.1802680101
4.400	-0.3388721586	-0.2621311235	-0.2352457180	-0.2186443805	-0.2049179342	-0.1975636899	-0.1918117228	-0.1891793760
4.600	-0.3455516346	-0.2699515691	-0.2427120976	-0.2266144728	-0.2131222733	-0.2056248796	-0.1999473527	-0.1974153044
4.800	-0.3514378445	-0.2771496147	-0.2496176410	-0.2338134309	-0.2205980648	-0.2130290359	-0.2073643818	-0.2048980785
5.200	-0.3607571262	-0.2894880483	-0.2615727325	-0.2458071681	-0.2332774038	-0.2257565288	-0.2199672289	-0.2174733684
5.400	-0.3642293176	-0.2946067595	-0.2665913423	-0.2506317428	-0.2385069364	-0.2310789392	-0.2251666893	-0.2225810859
5.600	-0.3669730688	-0.2990504033	-0.2709867475	-0.2547286543	-0.2430486296	-0.2357405829	-0.2296696484	-0.2269518216
5.800	-0.3690527864	-0.3028585711	-0.2747921692	-0.2581534078	-0.2469594989	-0.2397844370	-0.2335214489	-0.2306416015
6.000	-0.3705388397	-0.3060800718	-0.2780510722	-0.2609670385	-0.2503043215	-0.2432597588	-0.2367754199	-0.2337122860
6.200	-0.3715029121	-0.3087681406	-0.2808123394	-0.2632324089	-0.2531514290	-0.2462164751	-0.2394892718	-0.2362301011
6.400	-0.3720148951	-0.3109770081	-0.2831266746	-0.2650118589	-0.2555691872	-0.2487013939	-0.2417219327	-0.2382619819
6.600	-0.3721409841	-0.3127596664	-0.2850441001	-0.2663658948	-0.2576226674	-0.2507565046	-0.2435314113	-0.2398746075
6.800	-0.3719426361	-0.3141664603	-0.2866123185	-0.2673527484	-0.2593701998	-0.2524193770	-0.2449733366	-0.2411372447
7.000	-0.3714760630	-0.3152442592	-0.2878756408	-0.2680286696	-0.2608590154	-0.2537249347	-0.2460995922	-0.2421119046
7.200	-0.3707920789	-0.3160360069	-0.2888743723	-0.2684492495	-0.2621217161	-0.2547077470	-0.2469575968	-0.2428471473
7.400	-0.3699361437	-0.3165805230	-0.2896444571	-0.2686720156	-0.2631731037	-0.2554032418	-0.2475895180	-0.2433704041
7.600	-0.3689485508	-0.3169124774	-0.2902173621	-0.2687609312	-0.2640079621	-0.2558475573	-0.2480321324	-0.2436972263
7.800	-0.3678647180	-0.3170624805	-0.2906201305	-0.2687891462	-0.2646002421	-0.2560762666	-0.2483167962	-0.2438432726
8.000	-0.3667155214	-0.3170572775	-0.2908755939	-0.2688354253	-0.2649124488	-0.2561229913	-0.2484698952	-0.2438287071
8.200	-0.3655276893	-0.3169199786	-0.2910027307	-0.2689526292	-0.2649276087	-0.2560184352	-0.2485135834	-0.2436773775
8.400	-0.3643241687	-0.3166703760	-0.2910171378	-0.2691402560	-0.2646797265	-0.2557899137	-0.2484662633	-0.2434140625
8.600	-0.3631244738	-0.3163252311	-0.2909315690	-0.2693621272	-0.2642369500	-0.2554613355	-0.2483432936	-0.2430636424
8.800	-0.3619450066	-0.3158986224	-0.2907565325	-0.2695833344	-0.2636650343	-0.2550534218	-0.2481574753	-0.2426503765
9.000	-0.3607993141	-0.3154022790	-0.2905008496	-0.2697842852	-0.2630132549	-0.2545840106	-0.2479194172	-0.2421976212
9.200	-0.3596983294	-0.3148459225	-0.2901721860	-0.2699582904	-0.2623165466	-0.2540684443	-0.2476379272	-0.2417277284
9.400	-0.3586505712	-0.3142376206	-0.2897774816	-0.2701063992	-0.2616001894	-0.2535199531	-0.2473204138	-0.2412618811
9.600	-0.3576623490	-0.3135841231	-0.2893232816	-0.2702336287	-0.2608830687	-0.2529500547	-0.2469733245	-0.2408192178
9.800	-0.3567379566	-0.3128911858	-0.2888159712	-0.2703465842	-0.2601795364	-0.2523689853	-0.2466027185	-0.2404160301
10.000	-0.3558798864	-0.3121638492	-0.2882619033	-0.2704520340	-0.2595004142	-0.2517861004	-0.2462147763	-0.2400637741
10.200	-0.3550890294	-0.3114066833	-0.2876674400	-0.2705560400	-0.2588535682	-0.2512102257	-0.2458163405	-0.2397671126
10.400	-0.3543649177	-0.31106239735	-0.2870389638	-0.2706634448	-0.2582443273	-0.2506499384	-0.2454153365	-0.2395223688
10.600	-0.3537059393	-0.3098198434	-0.2863828254	-0.2707776227	-0.2576758407	-0.2501136671	-0.2450209895	-0.2393174583
10.800	-0.3531095737	-0.3089983494	-0.2857052865	-0.2709004394	-0.2571494549	-0.2496096074	-0.2446436233	-0.2391335162
11.000	-0.3525726078	-0.3081635029	-0.2850124488	-0.2710323046	-0.2566651090	-0.2491454189	-0.2442940231	-0.2389488380
11.200	-0.3520913359	-0.3073192928	-0.2843101952	-0.2711723613	-0.2562216842	-0.2487276180	-0.2439820866	-0.2387424824
11.400	-0.3516617450	-0.3064696539	-0.2836041355	-0.2713187366	-0.2558173680	-0.2483608725	-0.2437153525	-0.2384985695
11.600	-0.3512796725	-0.3056184562	-0.2828995525	-0.2714687593	-0.2554498832	-0.2480472064	-0.2434977799	-0.2382080748
11.800	-0.3509409335	-0.3047694662	-0.2822013590	-0.2716192450	-0.2551167023	-0.2477854726	-0.2433296912	-0.2378694396
12.000	-0.3506414245	-0.3039263251	-0.2815140727	-0.2717667146	-0.2548152049	-0.2475712978	-0.2432087545	-0.2374870961
12.200	-0.3503772061	-0.3030925169	-0.2808417847	-0.2719075846	-0.2545427498	-0.2473975139	-0.2431312867	-0.2370688392
12.400	-0.3501445546	-0.3022713612	-0.2801881398	-0.2720383329	-0.2542967616	-0.2472551584	-0.2430932791	-0.2366242834
12.600	-0.3499400041	-0.3014659883	-0.2795562895	-0.2721556225	-0.2540747762	-0.2471344861	-0.2430907527	-0.2361631973
12.800	-0.3497603580	-0.3006793273	-0.2789488777	-0.2722563968	-0.2538744503	-0.2470259548	-0.2431197863	-0.2356949442
13.000	-0.3496027075	-0.2999140977	-0.2783680056	-0.2723379638	-0.2536936120	-0.2469209107	-0.2431764590	-0.2352282532
13.200	-0.3494644226	-0.2991727981	-0.2778151878	-0.2723980459	-0.2535302432	-0.2468119692	-0.2432567972	-0.2347711037
13.400	-0.3493431374	-0.2984576840	-0.2772913296	-0.2724348524	-0.2533825116	-0.2466932238	-0.2433568225	-0.2343307816
13.600	-0.3492367487	-0.2977707684	-0.2767966829	-0.2724471236	-0.2532487609	-0.2465602985	-0.2434725639	-0.2339138672
13.800	-0.3491433901	-0.2971137903	-0.2763308420	-0.2724341597	-0.2531275028	-0.2464103489	-0.2433600003	-0.2335260961
14.000	-0.3490614117	-0.2964882005	-0.2758927835	-0.2723958251	-0.2530174149	-0.2462421528	-0.2437348903	-0.2331722662
14.200	-0.3489893639	-0.2958951433	-0.2754809347	-0.2723324960	-0.2529173287	-0.2460565052	-0.2438723440	-0.2328563773
14.400	-0.3489259772	-0.2953354394	-0.2750933750	-0.2722449243	-0.2528262109	-0.2458569620	-0.2440057186	-0.2325807645
14.600	-0.3488701413	-0.2948095750	-0.2747280956	-0.2721340059	-0.2527431539	-0.2456522971	-0.2441242902	-0.2323468764
14.800	-0.3488208841	-0.2943176914	-0.2743833734	-0.2720004588	-0.2526673527	-0.2454615242	-0.2442078597	-0.2321544053
15.000	-0.3487773672	-0.2938595875	-0.2740581744	-0.2718444671	-0.2525981060	-0.2453209094	-0.2442197073	-0.2320016724
15.200	-0.3487388546	-0.2934347450	-0.2737524539	-0.2716653891	-0.2525347836	-0.2452712582	-0.2441191362	-0.2318857942
15.400	-0.3487047118	-0.2930423338	-0.2734672771	-0.2714616798	-0.2524768323	-0.2453129423	-0.2439063109	-0.2318029482
15.600	-0.3486743870	-0.2926812525	-0.2732045252	-0.2712312010	-0.2524237632	-0.2454114213	-0.2436167849	-0.2317491072
15.800	-0.3486474001	-0.2923501759	-0.2729661742	-0.2709718954	-0.2523751333	-0.2455382404	-0.2432801602	-0.2317199698

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3	16.000 -0.3486233380 -0.2920475870 -0.2727534675 -0.2706826553 -0.2523305525 -0.2456784199 -0.2429128078 -0.2317115648
4	16.200 -0.3486018386 -0.2917718324 -0.2725662904 -0.2703638798 -0.2522896669 -0.2458244939 -0.2425237175 -0.2317203528
5	16.400 -0.3485825908 -0.2915211753 -0.2724031831 -0.2700174585 -0.2522521650 -0.2459725006 -0.2421184140 -0.2317432355
6	16.600 -0.3485653233 -0.2912938311 -0.2722617761 -0.2696462970 -0.2522177578 -0.2461201757 -0.2417008308 -0.2317776184
7	16.800 -0.3485498006 -0.2910880091 -0.2721393534 -0.2692537210 -0.2521861917 -0.2462661276 -0.2412740002 -0.2318213808
8	17.000 -0.3485358174 -0.2909019477 -0.2720332819 -0.2688430489 -0.2521572326 -0.2464094543 -0.2408404741 -0.2318727440
9	17.200 -0.3485117776 -0.2907339408 -0.2719411904 -0.2684173444 -0.2521306658 -0.2465495388 -0.2404024952 -0.2319302426
10	17.400 -0.3485014296 -0.2904456796 -0.2717911039 -0.2675314735 -0.2520839458 -0.2468184118 -0.2395211275 -0.2320591225
11	17.600 -0.3484920327 -0.2903224552 -0.2717299632 -0.2670758254 -0.2520634421 -0.2469466775 -0.2390813506 -0.2321286641
12	17.800 -0.3484834828 -0.2902113622 -0.2716764102 -0.2666142557 -0.2520446296 -0.2470706035 -0.2386444284 -0.2322006626
13	18.000 -0.3484756879 -0.2901111781 -0.2716294277 -0.2661483894 -0.2520273606 -0.2471900787 -0.2382119566 -0.2322745666
14	18.200 -0.3484685692 -0.2900207957 -0.2715881436 -0.2656796604 -0.2520114923 -0.2473050295 -0.2377854652 -0.2323498592
15	18.400 -0.3484620552 -0.2899391914 -0.2715518407 -0.2652093392 -0.2519968881 -0.2474154047 -0.2373664491 -0.2324261498
16	18.600 -0.3484560840 -0.2898654569 -0.2715198718 -0.2647385498 -0.2519834191 -0.2475211731 -0.2369563695 -0.2325030905
17	18.800 -0.3484506016 -0.2897987703 -0.2714916951 -0.2642682978 -0.2519709558 -0.2476223216 -0.2365566564 -0.2325803979
18	19.000 -0.3484455589 -0.2897383919 -0.2714668405 -0.2637994773 -0.2519593729 -0.2477188442 -0.2361686976 -0.2326578048
19	19.200 -0.3484409131 -0.2896836589 -0.2714449005 -0.2633328896 -0.2519485422 -0.2478107448 -0.2357938487 -0.2327351043
20	19.400 -0.3484366265 -0.2896339791 -0.2714255231 -0.2628692632 -0.2519383427 -0.2478980344 -0.2354334025 -0.2328121092
21	19.600 -0.3484326654 -0.2895888378 -0.2714083866 -0.2624092526 -0.2519286421 -0.2479807269 -0.2350885725 -0.2328886621
22	20.000 -0.3484289993 -0.2895477590 -0.2713932259 -0.2619534537 -0.2519193101 -0.2480588363 -0.2347604599 -0.2329646224
23	20.200 -0.3484256018 -0.2895103287 -0.2713798071 -0.2615024217 -0.2519102128 -0.2481323797 -0.2344500306 -0.2330398629
24	20.400 -0.3484224496 -0.2894761828 -0.2713679173 -0.2610566681 -0.2519012080 -0.2482013668 -0.2341580719 -0.2331142501
25	20.600 -0.3484195199 -0.2894449930 -0.2713573765 -0.2606166788 -0.2518921442 -0.2482658039 -0.2338852196 -0.2331876044
26	20.800 -0.3484167948 -0.2894164625 -0.2713480288 -0.2601829195 -0.2518828621 -0.2483256918 -0.2336321644 -0.2332594430
27	21.000 -0.3484118884 -0.2893663939 -0.2713323529 -0.2593359102 -0.2518629456 -0.2484317504 -0.2334071757 -0.2331763469
28	21.200 -0.3484096776 -0.2893444158 -0.2713257963 -0.2589235769 -0.2518519173 -0.2484778513 -0.2334750362 -0.2329807291
29	21.400 -0.3484076118 -0.2893242239 -0.2713199649 -0.2585193257 -0.2518398858 -0.2485192518 -0.2335429944 -0.2328015543
30	21.600 -0.3484038676 -0.2892885525 -0.2713101511 -0.2577371577 -0.2518117820 -0.2485875461 -0.2336759374 -0.2324917816
31	21.800 -0.3484021711 -0.2892727980 -0.2713060288 -0.2573603996 -0.2517951238 -0.2486141514 -0.2337406365 -0.2323591894
32	22.000 -0.3484005787 -0.2892582639 -0.2713023520 -0.2569940639 -0.2517762781 -0.2486354567 -0.2338040707 -0.2322399263
33	22.200 -0.3483982870 -0.2891913834 -0.2712871962 -0.2550636202 -0.2515931620 -0.2486322856 -0.2341565998 -0.2317417345
34	22.400 -0.3483907953 -0.2891750338 -0.2712840037 -0.2545480532 -0.2514942519 -0.2485678972 -0.2342629483 -0.2316355484
35	22.600 -0.3483898621 -0.2891677087 -0.2712826471 -0.2543193987 -0.2514362733 -0.2485203033 -0.2343140185 -0.2315903328
36	22.800 -0.3483889795 -0.2891608897 -0.2712814307 -0.2541112313 -0.2513728586 -0.2484611431 -0.2343636707 -0.2315495780
37	23.000 -0.3483873514 -0.2891486034 -0.2712793533 -0.2537571922 -0.2512327412 -0.2483043333 -0.2344587213 -0.2314795309
38	23.200 -0.3483866005 -0.2891430657 -0.2712784705 -0.2536104588 -0.2511585216 -0.2482050732 -0.2345041262 -0.2314494228
39	23.400 -0.3483852123 -0.2891330472 -0.2712769575 -0.2533717773 -0.2510098259 -0.2479625961 -0.2345907472 -0.2313973365
40	23.600 -0.3483845704 -0.2891285096 -0.2712763130 -0.2532764842 -0.2509385937 -0.2478194650 -0.2346319788 -0.2313747880
41	23.800 -0.3483839598 -0.2891242543 -0.2712757320 -0.2531947613 -0.2508712173 -0.2476624200 -0.2346718453 -0.2313542503
42	24.000 -0.3483833798 -0.2891202603 -0.2712752078 -0.2531247893 -0.2508085861 -0.2474923742 -0.2347103575 -0.2313355104
43	24.200 -0.3483828272 -0.2891165048 -0.2712747353 -0.2530648770 -0.2507512102 -0.2473105098 -0.2347475368 -0.2313183861
44	24.400 -0.3483823015 -0.2891129714 -0.2712743096 -0.2530135108 -0.2506992646 -0.2471181458 -0.2347834035 -0.2313027139
45	24.600 -0.3483818003 -0.2891096415 -0.2712739239 -0.2529693739 -0.2506526571 -0.2469166701 -0.2348179695 -0.2312883508
46	24.800 -0.3483813230 -0.2891065010 -0.2712735771 -0.2529313401 -0.2506111252 -0.2467074597 -0.2348512592 -0.2312751580
47	25.000 -0.3483808675 -0.2891035341 -0.2712732625 -0.2528984563 -0.2505742820 -0.2464918263 -0.2348832925 -0.2312630308
48	25.200 -0.3483804334 -0.2891007288 -0.2712729797 -0.2528699219 -0.2505417006 -0.2462709777 -0.2349140911 -0.2312518681
49	25.400 -0.3483800182 -0.2890980712 -0.2712727233 -0.2528450705 -0.2505129342 -0.2460460074 -0.2349436793 -0.2312415722
50	25.600 -0.3483796216 -0.2890955514 -0.2712724914 -0.2528233463 -0.2504875531 -0.2458178762 -0.2349720830 -0.2312320613
51	25.800 -0.3483792430 -0.2890931592 -0.2712722816 -0.2528042857 -0.2504651502 -0.2455874310 -0.2349993281 -0.2312232698
52	26.000 -0.3483788810 -0.2890908855 -0.2712720910 -0.2527875032 -0.2504453631 -0.2453553990 -0.2350254407 -0.2312151248
53	26.200 -0.3483785342 -0.2890887203 -0.2712719189 -0.2527726730 -0.2504278604 -0.2451223992 -0.2350504446 -0.2312075719
54	26.400 -0.3483782030 -0.2890866577 -0.2712717635 -0.2527595249 -0.2504123550 -0.2448889713 -0.2350743693 -0.2312005611
55	26.600 -0.3483778863 -0.2890846901 -0.2712716225 -0.2527478293 -0.2503985932 -0.2446555638 -0.2350972423 -0.2311940423
56	26.800 -0.3483775823 -0.2890828101 -0.2712714936 -0.2527373927 -0.2503863533 -0.2444225649 -0.2351190893 -0.2311879721
57	27.000 -0.3483772905 -0.2890810126 -0.2712713763 -0.2527280510 -0.2503754410 -0.2441902944 -0.2351399396 -0.2311823120
58	27.200 -0.3483770121 -0.2890792928 -0.2712712702 -0.2527196666 -0.2503656952 -0.2439590335 -0.2351598240 -0.2311770323
59	27.400 -0.3483767446 -0.2890776447 -0.2712711735 -0.2527121194 -0.2503569705 -0.2437290119 -0.2351787669 -0.2311720987
60	27.600 -0.3483764882 -0.2890760648 -0.2712710850 -0.2527053074 -0.2503491398 -0.2435004319 -0.2351968017 -0.2311674821
	27.800 -0.3483762413 -0.2890745481 -0.2712710037 -0.2526991427 -0.2503420971 -0.2432734384 -0.2352139481 -0.2311631577
	28.000 -0.3483760054 -0.2890730934 -0.2712709303 -0.2526935494 -0.2503357511 -0.2430481825 -0.2352302415 -0.2311591070
	30.000 -0.3483757783 -0.2890716956 -0.2712708621 -0.2526884639 -0.2503300204 -0.2428247747 -0.2352457066 -0.2311552998
	30.400 -0.3483755602 -0.2890703528 -0.2712707998 -0.2526838274 -0.2503248326 -0.2426033085 -0.2352603703 -0.2311517276
	31.000 -0.3483749551 -0.2890666269 -0.2712706406 -0.2526721518 -0.2503119639 -0.2419512845 -0.2352998135 -0.2311422184
	31.400 -0.3483745898 -0.2890643757 -0.2712705537 -0.2526658612 -0.2503051739 -0.2415274146 -0.2353225678 -0.2311367530
	31.600 -0.3483744180 -0.2890633151 -0.2712705148 -0.2526630766 -0.2503022085 -0.2413188282 -0.2353329527 -0.2311342453
	31.800 -0.3483742518 -0.2890622947 -0.2712704784 -0.2526604994 -0.2502994899 -0.2411124955 -0.2353427013 -0.2311318764
	32.200 -0.3483739377 -0.2890603709 -0.2712704120 -0.2526558943 -0.2502946988 -0.2407066805 -0.2353603700 -0.2311275076
	32.400 -0.3483737901 -0.2890594660 -0.2712703833 -0.2526538324 -0.2502925856 -0.2405071965 -0.2353683224 -0.2311254929
	32.600 -0.3483736472 -0.2890585956 -0.2712703553 -0.2526519110 -0.2502906354 -0.2403100188 -0.2353757047 -0.2311235839
	32.800 -0.3483735091 -0.2890577592 -0.2712703289 -0.2526501180 -0.2502888339 -0.2401152354 -0.2353825487 -0.2311217700

Table 2: (1-8)¹Π

3.000	-0.1884337956	-0.1774619484	-0.1399813496	-0.1347982592	-0.1302532385	-0.1186302743	-0.1158891234	-0.1123065902
3.200	-0.1975652289	-0.1855954949	-0.1503868663	-0.1441830655	-0.1392112458	-0.1281151900	-0.1253635212	-0.1214876270
3.400	-0.2070035307	-0.1940675315	-0.1607053273	-0.1538371490	-0.1485576782	-0.1380279352	-0.1352641318	-0.1311675681
3.800	-0.2255939217	-0.2107257924	-0.1801619561	-0.1728759319	-0.1674261201	-0.1580216281	-0.1552703309	-0.1509142952
4.000	-0.2343938947	-0.2185880559	-0.1891913051	-0.1819097402	-0.1765675313	-0.1677020771	-0.1649865512	-0.1605646545
4.200	-0.2427014488	-0.2260437020	-0.1977185920	-0.1904638889	-0.1853092430	-0.1769415932	-0.1742811562	-0.1698277043
4.400	-0.2504272690	-0.2330602932	-0.2056941449	-0.1984687392	-0.1935403496	-0.1855974542	-0.1830058139	-0.1785562715
4.600	-0.2575041318	-0.2396115292	-0.2130578113	-0.2058788831	-0.2011849531	-0.1935638529	-0.1910457830	-0.1866366547
4.800	-0.2638874502	-0.2456697225	-0.2197583584	-0.2126639299	-0.2081939843	-0.2007785298	-0.1983298251	-0.1939934661
5.200	-0.2745092636	-0.2562034657	-0.2310715458	-0.2243048350	-0.2201917017	-0.2128927431	-0.2105593527	-0.2064153120
5.400	-0.2787696210	-0.2606490562	-0.2356916154	-0.2291719452	-0.2251624554	-0.2178286214	-0.2155500662	-0.2114942255
5.600	-0.2823745077	-0.2645499339	-0.2396571218	-0.2334347149	-0.2294659246	-0.2220700984	-0.2198516869	-0.2158633816
5.800	-0.2853736742	-0.2679254311	-0.2430121860	-0.2371295117	-0.2331365990	-0.2256704369	-0.2235181178	-0.2195727071
6.000	-0.2878239466	-0.2708052445	-0.2458089241	-0.2402985172	-0.2362203821	-0.2286883035	-0.2266042510	-0.2226783264
6.200	-0.2897852636	-0.2732257216	-0.2481038417	-0.2429864674	-0.2387695070	-0.2311843893	-0.2291639230	-0.2252386905
6.400	-0.2913177899	-0.2752265458	-0.2499552003	-0.2452379936	-0.2408384046	-0.2332181551	-0.2312492113	-0.2273117417
6.600	-0.2924799646	-0.2768482069	-0.2514214341	-0.2470954526	-0.2424808537	-0.2348458862	-0.2329102166	-0.2289532786
6.800	-0.2933272553	-0.2777343392	-0.2525602325	-0.2485971996	-0.2437481947	-0.2361191078	-0.2341951740	-0.23023158238
7.000	-0.2939111776	-0.2791101577	-0.2534279242	-0.2497764904	-0.2446883155	-0.2370837397	-0.2351504461	-0.2311479904
7.200	-0.2942790520	-0.2798227926	-0.2540783921	-0.2506614390	-0.2453451473	-0.2377797812	-0.2358200618	-0.2317940166
7.400	-0.2944734441	-0.2803003515	-0.2545613637	-0.2512769569	-0.2457586337	-0.2382429558	-0.2362458856	-0.2321941746
7.600	-0.2945319328	-0.2805723074	-0.2549180034	-0.2516480937	-0.2459645974	-0.2385037317	-0.2364657343	-0.2323840178
7.800	-0.2944870561	-0.2806658972	-0.2551782696	-0.2518037387	-0.2459950446	-0.2385893147	-0.2365135623	-0.2323950610
8.000	-0.2943663082	-0.2806064215	-0.2553608272	-0.2517768684	-0.2458783899	-0.2385240421	-0.2364190083	-0.2322549654
8.200	-0.2941923229	-0.2804176729	-0.2554765725	-0.2516017482	-0.2456397283	-0.2383298703	-0.2362072207	-0.2319878852
8.400	-0.2939831422	-0.2801220146	-0.2555326124	-0.2513101734	-0.2453010273	-0.2380263626	-0.2358987494	-0.2316146946
8.600	-0.2937527944	-0.2797406848	-0.2555352372	-0.2509295949	-0.2448814661	-0.2376315312	-0.2355101987	-0.2311538167
8.800	-0.2935117987	-0.2792935898	-0.2554906793	-0.2504824594	-0.2443975307	-0.2371613753	-0.2350543470	-0.2306211544
9.000	-0.2932678039	-0.2787992195	-0.2554053427	-0.2499866299	-0.2438632640	-0.2366304742	-0.2345410789	-0.2300308466
9.200	-0.2930261784	-0.2782744448	-0.2552855854	-0.2494560022	-0.2432904431	-0.2360519727	-0.2339781117	-0.2293956005
9.400	-0.2927905496	-0.2777343392	-0.2551375155	-0.2489011491	-0.2426888053	-0.2354375280	-0.2333717078	-0.2287264987
9.600	-0.2925632534	-0.2771920304	-0.2549668717	-0.2483299468	-0.2420663320	-0.2347976219	-0.2327275056	-0.2280337577
9.800	-0.2923456913	-0.2766586225	-0.2547789489	-0.2477481433	-0.2414295316	-0.2341415516	-0.2320510168	-0.2273265708
10.000	-0.2921386248	-0.2761431638	-0.2545785832	-0.2471599027	-0.2407837180	-0.2334774027	-0.2313478016	-0.2266131122
10.200	-0.2919423658	-0.2756526893	-0.2543701548	-0.2465683115	-0.2401332753	-0.2328121932	-0.2306237562	-0.2259010652
10.400	-0.2917569339	-0.2751923338	-0.2541575974	-0.2459758303	-0.2394818457	-0.2321518974	-0.2298849190	-0.2251973894
10.600	-0.2915821562	-0.2747654735	-0.2539444019	-0.2453846651	-0.2388324734	-0.2315015283	-0.2291375132	-0.2245090001
10.800	-0.2914177305	-0.2743739465	-0.2537336084	-0.2447970632	-0.2381876580	-0.2308651417	-0.2283875304	-0.2238423593
11.000	-0.2912632930	-0.2740182643	-0.2535277919	-0.2442154919	-0.2375494077	-0.2302460393	-0.2276408376	-0.2232045626
11.200	-0.2911184189	-0.2736978859	-0.2533290522	-0.2436427338	-0.2369192422	-0.2296468191	-0.2269028971	-0.2226025047
11.400	-0.2909826634	-0.2734114289	-0.2531390166	-0.2430818745	-0.2362981951	-0.2290695242	-0.2261786925	-0.2220440820
11.600	-0.2908555658	-0.2731569355	-0.2529588464	-0.2425362159	-0.2356868554	-0.2285157351	-0.2254725839	-0.2215357641
11.800	-0.2907366647	-0.2729320590	-0.2527892765	-0.2420091390	-0.2350854415	-0.2279866839	-0.2247885526	-0.2210816349
12.000	-0.2906254951	-0.2727342348	-0.2526306582	-0.2415039119	-0.2344938908	-0.2274833085	-0.2241297861	-0.2206899988
12.200	-0.2905216070	-0.2725608390	-0.2524830186	-0.2410234947	-0.2339120127	-0.2270062932	-0.2234990288	-0.2204064173
12.400	-0.2904245538	-0.2724092807	-0.2523461190	-0.2405703747	-0.2333396393	-0.2265560649	-0.2228986913	-0.2202298528
12.600	-0.2903339144	-0.2722770792	-0.2522195291	-0.2401464087	-0.2327767672	-0.2261327462	-0.2223310372	-0.2201000362
12.800	-0.2902492772	-0.2721619139	-0.2521026710	-0.2397527566	-0.2322237285	-0.2257361482	-0.2217989135	-0.2199958903
13.000	-0.2901702538	-0.2720616667	-0.2519948834	-0.2393898418	-0.2316811982	-0.2253656892	-0.2213062216	-0.2199065805
13.200	-0.2900964762	-0.2719744097	-0.2518954536	-0.2390573969	-0.2311502578	-0.2250204141	-0.2208601380	-0.2198206473
13.400	-0.2900276018	-0.2718984247	-0.2518036619	-0.2387545564	-0.2306323795	-0.2246990215	-0.2204758211	-0.2197197342
13.600	-0.2899633008	-0.2718321920	-0.2517188007	-0.2384799719	-0.2301293442	-0.2243999236	-0.2201825635	-0.2195718698
13.800	-0.2899032709	-0.2717743875	-0.2516401970	-0.2382319448	-0.2296431505	-0.2241213449	-0.2199998923	-0.2193548698
14.000	-0.2898472280	-0.2717238471	-0.2515672210	-0.2380085506	-0.2291759055	-0.2238614311	-0.2198938241	-0.2190996059
14.200	-0.2897949099	-0.2716795614	-0.2514992964	-0.2378077583	-0.2287297131	-0.2236183774	-0.2198210367	-0.2188455868
14.400	-0.2897460729	-0.2716406599	-0.2514359037	-0.2376275118	-0.2283065416	-0.2233905401	-0.2197597767	-0.2186100773
14.600	-0.2897004826	-0.2716064056	-0.2513765778	-0.2374658100	-0.2279081288	-0.2231765439	-0.2197003844	-0.2183978322
14.800	-0.2896579252	-0.2715761529	-0.2513209078	-0.2373207411	-0.2275358491	-0.2229753486	-0.2196379125	-0.2182088392
15.000	-0.2896182031	-0.2715493617	-0.2512685336	-0.2371905299	-0.2271906514	-0.2227862933	-0.2195694059	-0.2180413496
15.200	-0.2895811317	-0.2715255528	-0.2512191404	-0.2370735348	-0.2268729712	-0.2226090547	-0.2194929435	-0.2178930290
15.400	-0.2895465328	-0.2715043389	-0.2511724548	-0.2369682738	-0.2265827272	-0.2224436605	-0.2194073072	-0.2177615847
15.600	-0.2895142476	-0.2714853729	-0.2511282438	-0.2368734041	-0.2263193176	-0.2222902457	-0.2193118782	-0.2176447259
15.800	-0.2894841224	-0.2714683648	-0.2510863038	-0.2367877309	-0.2260816730	-0.2221489901	-0.2192066150	-0.2175404250
16.000	-0.2894560126	-0.2714530691	-0.2510464586	-0.2367101907	-0.2258683465	-0.2220199502	-0.2190920533	-0.2174468806
16.200	-0.2894297846	-0.2714392709	-0.2510085562	-0.2366398398	-0.2256776171	-0.2219029580	-0.2189698597	-0.2173625162
16.400	-0.2894053150	-0.2714267912	-0.2509724684	-0.2365758477	-0.2255075993	-0.2217975770	-0.2188397016	-0.2172859692
16.600	-0.2893824826	-0.2714154755	-0.2509380807	-0.2365174852	-0.2253563400	-0.2217031177	-0.2187051979	-0.2172160740
16.800	-0.2893611803	-0.2714051848	-0.2509052946	-0.2364641091	-0.2252218948	-0.2216186689	-0.2185676394	-0.2171518331
17.000	-0.2893413022	-0.2713958097	-0.2508740215	-0.2364151567	-0.2251024106	-0.2215432352	-0.2184289402	-0.2170924261
17.200	-0.2893227521	-0.2713872442	-0.2508441835	-0.2363701350	-0.2249961442	-0.2214757673	-0.2182908597	-0.2170371649
17.400	-0.2893054393	-0.2713794046	-0.2508157137	-0.2363286111	-0.2249015028	-0.2214152425	-0.2181549352	-0.2169854873
17.600	-0.2892892800	-0.2713722132	-0.2507885455	-0.2362902084	-0.2248170420	-0.2213607076	-0.2180224317	-0.2169369394

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3	17.800 -0.2892741930 -0.2713656063 -0.2507626244 -0.2362545974 -0.2247414733 -0.2213113025 -0.2178943234 -0.2168911522
4	18.000 -0.2892601062 -0.2713595276 -0.2507378961 -0.2362214872 -0.2246736563 -0.2212662674 -0.2177713155 -0.2168478315
5	18.200 -0.2892469492 -0.2713539225 -0.2507143128 -0.2361906253 -0.2246125812 -0.2212249484 -0.2176538612 -0.2168067416
6	18.400 -0.2892346581 -0.2713487482 -0.2506918264 -0.2361617911 -0.2245573709 -0.2211867828 -0.2175422150 -0.2167676948
7	18.600 -0.2892231720 -0.2713439649 -0.2506703918 -0.2361347881 -0.2245072557 -0.2211512969 -0.2174364499 -0.2167305381
8	18.800 -0.2892124363 -0.2713395356 -0.2506499685 -0.2361094452 -0.2244615664 -0.2211180920 -0.2173365086 -0.2166951422
9	19.000 -0.2892023980 -0.2713354305 -0.2506305165 -0.2360856156 -0.2244197223 -0.2210868300 -0.2172422438 -0.2166614009
10	19.200 -0.2891930086 -0.2713316207 -0.2506119972 -0.2360631636 -0.2243812226 -0.2210572352 -0.2171534478 -0.2166292201
11	19.400 -0.2891842236 -0.2713280814 -0.2505943717 -0.2360419754 -0.2243456303 -0.2210290693 -0.2170698583 -0.2165985118
12	19.600 -0.2891760004 -0.2713247903 -0.2505776030 -0.2360219460 -0.2243125703 -0.2210021381 -0.2169912065 -0.2165691907
13	19.800 -0.2891682999 -0.2713217270 -0.2505616551 -0.2360029861 -0.2242817119 -0.2209762612 -0.2169172162 -0.2165411706
14	20.000 -0.2891610874 -0.2713188716 -0.2505464933 -0.2359850150 -0.2242527878 -0.2209513377 -0.2168476281 -0.2165143638
15	20.200 -0.2891543270 -0.2713162089 -0.2505320866 -0.2359679578 -0.2242255502 -0.2209272353 -0.2167821958 -0.2164886677
16	20.400 -0.2891479894 -0.2713137245 -0.2505183992 -0.2359517558 -0.2241997932 -0.2209038568 -0.2167207137 -0.2164639663
17	20.600 -0.2891420442 -0.2713114022 -0.2505053979 -0.2359363457 -0.2241753401 -0.2208811231 -0.2166630145 -0.2164401150
18	20.800 -0.2891364654 -0.2713092327 -0.2504930548 -0.2359216774 -0.2241520354 -0.2208589683 -0.2166089949 -0.2164169275
19	21.000 -0.2891312270 -0.2713072021 -0.2504813362 -0.2359077063 -0.2241297509 -0.2208373329 -0.2165586364 -0.2163941529
20	21.200 -0.2891263060 -0.2713053000 -0.2504702154 -0.2358943868 -0.2241083758 -0.2208161756 -0.2165120385 -0.2163714385
21	21.400 -0.2891216805 -0.2713035180 -0.2504596631 -0.2358816823 -0.2240878120 -0.2207954505 -0.2164694513 -0.2163482992
22	21.600 -0.2891173316 -0.2713018475 -0.2504496493 -0.2358695579 -0.2240679839 -0.2207751297 -0.2164312753 -0.2163241265
23	21.800 -0.2891132390 -0.2713002793 -0.2504401509 -0.2358579798 -0.2240488179 -0.2207551840 -0.2163978977 -0.2162983208
24	22.000 -0.2891093865 -0.2712988060 -0.2504311385 -0.2358469191 -0.2240302585 -0.2207355938 -0.2163693945 -0.2162706254
25	22.200 -0.2891057586 -0.2712974224 -0.2504225939 -0.2358363494 -0.2240122574 -0.2207163395 -0.2163452843 -0.2162413453
26	22.400 -0.2891023390 -0.2712961208 -0.2504144880 -0.2358262428 -0.2239947719 -0.2206974088 -0.2163247039 -0.2162111888
27	22.600 -0.2890991143 -0.2712948955 -0.2504067994 -0.2358165784 -0.2239777707 -0.2206787914 -0.2163067754 -0.2161808717
28	22.800 -0.2890960708 -0.2712937407 -0.2503995069 -0.2358073320 -0.2239612203 -0.2206604706 -0.2162908216 -0.2161509381
29	23.000 -0.2890931988 -0.2712926542 -0.2503925916 -0.2357984852 -0.2239451020 -0.2206424527 -0.2162763715 -0.2161217249
30	23.200 -0.2890904854 -0.2712916283 -0.2503860322 -0.2357900172 -0.2239293943 -0.2206247276 -0.2162631066 -0.2160934287
31	23.400 -0.2890879199 -0.2712906594 -0.2503798085 -0.2357819110 -0.2239140814 -0.2206072939 -0.2162508106 -0.2160661549
32	23.600 -0.2890854937 -0.2712897443 -0.2503739073 -0.2357741470 -0.2238991500 -0.2205901509 -0.2162393321 -0.2160399374
33	23.800 -0.2890831989 -0.2712888804 -0.2503683095 -0.2357667133 -0.2238845912 -0.2205732996 -0.2162285613 -0.2160147917
34	24.000 -0.2890810252 -0.2712880627 -0.2503629985 -0.2357595902 -0.2238703941 -0.2205567402 -0.2162184111 -0.2159907066
35	24.200 -0.2890789655 -0.2712872885 -0.2503579589 -0.2357527671 -0.2238565534 -0.2205404764 -0.2162088153 -0.2159676608
36	24.400 -0.2890770131 -0.2712865552 -0.2503531794 -0.2357462276 -0.2238430627 -0.2205245096 -0.2161997216 -0.2159456188
37	24.600 -0.2890750431 -0.2712858229 -0.2503484000 -0.2357397833 -0.2238297700 -0.2205085428 -0.2161915716 -0.2159235708
38	24.800 -0.2890734031 -0.2712852002 -0.2503443382 -0.2357339538 -0.2238171157 -0.2204934851 -0.2161828613 -0.2159044222
39	25.000 -0.2890717338 -0.2712845737 -0.2503402552 -0.2357281939 -0.2238046513 -0.2204784341 -0.2161750235 -0.2158851925
40	25.200 -0.2890699911 -0.2712839413 -0.2503361726 -0.2357224320 -0.2237918092 -0.2204633828 -0.2161673348 -0.2158664938
41	25.400 -0.2890686406 -0.2712834136 -0.2503327003 -0.2357173779 -0.2237807302 -0.2204492729 -0.2161603874 -0.2158492830
42	25.600 -0.2890672068 -0.2712828761 -0.2503292078 -0.2357123000 -0.2237692673 -0.2204351685 -0.2161535409 -0.2158325345
43	25.800 -0.2890658422 -0.2712823639 -0.2503258947 -0.2357074310 -0.2237581317 -0.2204213862 -0.2161469785 -0.2158165335
44	26.000 -0.2890645438 -0.2712818769 -0.2503227497 -0.2357027613 -0.2237473223 -0.2204079292 -0.2161406845 -0.2158012619
45	26.200 -0.2890632454 -0.2712813900 -0.2503196421 -0.2356980958 -0.2237366658 -0.2203944721 -0.2161344916 -0.2157859708
46	26.400 -0.2890621279 -0.2712809692 -0.2503169281 -0.2356939858 -0.2237266658 -0.2203819940 -0.2161288307 -0.2157727440
47	26.600 -0.2890610042 -0.2712805460 -0.2503142374 -0.2356898633 -0.2237168120 -0.2203695172 -0.2161232423 -0.2157594418
48	26.800 -0.2890599330 -0.2712801425 -0.2503116810 -0.2356859106 -0.2237072707 -0.2203573709 -0.2161178625 -0.2157467399
49	27.000 -0.2890589108 -0.2712797566 -0.2503092548 -0.2356821184 -0.2236980369 -0.2203455567 -0.2161126801 -0.2157346077
50	27.200 -0.2890579358 -0.2712793885 -0.2503069506 -0.2356784815 -0.2236891048 -0.2203340654 -0.2161076839 -0.2157230187
51	27.400 -0.2890570043 -0.2712790353 -0.2503047604 -0.2356749933 -0.2236804691 -0.2203228962 -0.2161028630 -0.2157119505
52	27.600 -0.2890561149 -0.2712786980 -0.2503026806 -0.2356716468 -0.2236721257 -0.2203120498 -0.2160982101 -0.2157013774
53	27.800 -0.2890552287 -0.2712783711 -0.2503006908 -0.2356683000 -0.2236637929 -0.2203015600 -0.2160948101 -0.2156918043
54	28.000 -0.2890544542 -0.2712780651 -0.2502988285 -0.2356653612 -0.2236562900 -0.2202913106 -0.2160893756 -0.2156816203
55	28.200 -0.2890536781 -0.2712777681 -0.2502970431 -0.2356624102 -0.2236487854 -0.2202814093 -0.2160851783 -0.2156723947
56	28.400 -0.2890529287 -0.2712774711 -0.2502952683 -0.2356597673 -0.2236413726 -0.2202718184 -0.2160809851 -0.2156632096
57	28.600 -0.2890522287 -0.2712772116 -0.2502937346 -0.2356572200 -0.2236345721 -0.2202625204 -0.2160771942 -0.2156551516
58	28.800 -0.2890515506 -0.2712769493 -0.2502921998 -0.2356546289 -0.2236278482 -0.2202535221 -0.2160733945 -0.2156470946
59	29.000 -0.2890496879 -0.2712762243 -0.2502880283 -0.2356470998 -0.2236209122 -0.2202449333 -0.2160697045 -0.2156398399
60	30.200 -0.2890475554 -0.2712753810 -0.2502833330 -0.2356388602 -0.2235872577 -0.2201982818 -0.2160499364 -0.2155997220
	30.400 -0.2890470774 -0.2712751899 -0.2502822912 -0.2356370114 -0.2235822965 -0.2201914175 -0.2160469847 -0.2155940711
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	31.600 -0.2890446005 -0.2712741802 -0.2502769589 -0.2356274480 -0.2235562339 -0.2201549559 -0.2160310382 -0.2155648334
	31.800 -0.2890442448 -0.2712740323 -0.2502762008 -0.2356260801 -0.2235524461 -0.2201496054 -0.2160286489 -0.2155606486

Table 3: $(1-4)^1\Delta$

3.000	-0.1749474437	-0.1296050565	-0.1211436535	-0.1132829031
3.200	-0.1836639487	-0.1389201858	-0.1307701885	-0.1224014734
3.400	-0.1925902325	-0.1487730016	-0.1407172238	-0.1323583898
3.800	-0.2096017770	-0.1685718183	-0.1606577642	-0.1523644417
4.000	-0.2173529267	-0.1780356811	-0.1703552809	-0.1620166185
4.200	-0.2245151675	-0.1869902664	-0.1796819732	-0.1712355647
4.400	-0.2310727497	-0.1953206528	-0.1885037498	-0.1798917291
4.600	-0.2370249483	-0.2029454852	-0.1967075769	-0.1878811019
4.800	-0.2423767725	-0.2098164681	-0.2042107323	-0.1951322969
5.200	-0.2513129498	-0.2212531544	-0.2169509722	-0.2073034658
5.400	-0.2549244972	-0.2258572603	-0.2221823854	-0.2122387474
5.600	-0.2579937587	-0.2297726259	-0.2266911623	-0.2164542284
5.800	-0.2605509936	-0.2330523794	-0.2305247590	-0.2200023557
6.000	-0.2626321089	-0.2357538980	-0.2337388830	-0.2229418164
6.200	-0.2642767919	-0.2379356169	-0.2363924205	-0.2253331329
6.400	-0.2655266297	-0.2396554019	-0.2385434903	-0.2272357884
6.600	-0.2664235494	-0.2409713019	-0.2402452208	-0.2287065133
6.800	-0.2670085822	-0.2419519329	-0.2415333100	-0.2297983637
7.000	-0.2673210174	-0.2427230757	-0.2423783355	-0.2305603294
7.200	-0.2673978133	-0.2433551287	-0.2427978461	-0.2310374579
7.400	-0.2672732711	-0.2437822626	-0.2429371674	-0.2312719178
7.600	-0.2669788971	-0.2440065423	-0.2428655173	-0.2313085949
7.800	-0.2665433801	-0.2440534245	-0.2426209275	-0.2312204417
8.000	-0.2659926900	-0.2439495674	-0.2422330000	-0.2310615227
8.200	-0.2653502525	-0.2437193613	-0.2417269673	-0.2308026161
8.400	-0.2646371348	-0.2433843844	-0.2411248634	-0.2304453493
8.600	-0.2638722456	-0.2429634225	-0.2404461047	-0.2300048281
8.800	-0.2630725203	-0.2424726307	-0.2397078375	-0.2294965474
9.000	-0.2622530648	-0.2419257406	-0.2389252343	-0.2289344372
9.200	-0.2614272798	-0.2413342699	-0.2381117161	-0.2283306125
9.400	-0.2606069403	-0.2407077498	-0.2372791491	-0.2276954811
9.600	-0.2598022648	-0.2400539697	-0.2364379966	-0.2270379892
9.800	-0.2590219347	-0.2393792157	-0.2355974379	-0.2263658402
10.000	-0.2582731413	-0.2386885911	-0.2347655095	-0.2256859125
10.200	-0.2575615967	-0.2379862509	-0.2339491584	-0.2250044529
10.400	-0.2568915768	-0.2372757078	-0.2331543203	-0.2243274245
10.600	-0.2562659801	-0.2365600664	-0.2323859696	-0.2236607619
10.800	-0.2556864241	-0.2358422319	-0.2316481603	-0.2230105977
11.000	-0.2551533588	-0.2351250716	-0.2309440564	-0.2223834094
11.200	-0.2546662246	-0.2344115086	-0.2302759527	-0.2217860673
11.400	-0.2542236204	-0.2337045763	-0.2296453191	-0.2212256984
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12.000	-0.2531402370	-0.2316555272	-0.2279811803	-0.2198309385
12.200	-0.2528512647	-0.2310074084	-0.2274998064	-0.2194747749
12.400	-0.2525933547	-0.2303822515	-0.2270522372	-0.2191728402
12.600	-0.2523635237	-0.2297832795	-0.2266359587	-0.2189206981
12.800	-0.2521589087	-0.2292135984	-0.2262480476	-0.2187119813
13.000	-0.2519768246	-0.2286761360	-0.2258852825	-0.2185394505
13.200	-0.2518147826	-0.2281735584	-0.2255442812	-0.2183958664
13.400	-0.2516705116	-0.2277081293	-0.2252216931	-0.2182745725
13.600	-0.2515419626	-0.2272815304	-0.2249144339	-0.2181697878
13.800	-0.2514272960	-0.2268946364	-0.2246199502	-0.2180767021
14.000	-0.2513248727	-0.2265473134	-0.2243364627	-0.2179914547
14.200	-0.2512332419	-0.2262383192	-0.2240630996	-0.2179110543
14.400	-0.2511511256	-0.2259653753	-0.2237998564	-0.2178332662
14.600	-0.2510774014	-0.2257254132	-0.2235473783	-0.2177565026
14.800	-0.2510110835	-0.2255149117	-0.2233066430	-0.2176797250
15.000	-0.2509513106	-0.2253302532	-0.2230786529	-0.2176023390
15.200	-0.2508973272	-0.2251679754	-0.2228642007	-0.2175241059
15.400	-0.2508484765	-0.2250249347	-0.2226637493	-0.2174450579
15.600	-0.2508041822	-0.2248983743	-0.2224774013	-0.2173654282
15.800	-0.2507639414	-0.2247859235	-0.2223049318	-0.2172855791
16.000	-0.2507273125	-0.2246855804	-0.2221458512	-0.2172059530
16.200	-0.2506939104	-0.2245956522	-0.2219994714	-0.2171270118
16.400	-0.2506633967	-0.2245147237	-0.2218649874	-0.2170492179
16.600	-0.2506354735	-0.2244416020	-0.2217415214	-0.2169729972
16.800	-0.2506098758	-0.2243752847	-0.2216281817	-0.2168987228
17.000	-0.2505863767	-0.2243149279	-0.2215240875	-0.2168267031
17.200	-0.2505647696	-0.2242598126	-0.2214283980	-0.2167571849
17.400	-0.2505448715	-0.2242093305	-0.2213403267	-0.2166903488
17.600	-0.2505265230	-0.2241629592	-0.2212591473	-0.2166263194

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3	17.800 -0.2505095808 -0.2241202527 -0.2211841961 -0.2165651630
4	18.000 -0.2504939174 -0.2240808264 -0.2211148768 -0.2165069043
5	18.200 -0.2504794167 -0.2240443453 -0.2210506520 -0.2164515279
6	18.400 -0.2504659781 -0.2240105214 -0.2209910432 -0.2163989886
7	18.600 -0.2504535082 -0.2239790990 -0.2209356202 -0.2163492152
8	18.800 -0.2504419260 -0.2239498568 -0.2208840043 -0.2163021190
9	19.000 -0.2504311558 -0.2239226005 -0.2208358583 -0.2162575982
10	19.200 -0.2504211317 -0.2238971571 -0.2207908803 -0.2162155436
11	19.400 -0.2504117919 -0.2238733720 -0.2207488011 -0.2161758399
12	19.600 -0.2504030817 -0.2238511094 -0.2207093852 -0.2161383724
13	19.800 -0.2503949512 -0.2238302479 -0.2206724185 -0.2161030220
14	20.000 -0.2503873561 -0.2238106771 -0.2206377109 -0.2160696702
15	20.200 -0.2503802536 -0.2237922982 -0.2206050904 -0.2160382085
16	20.400 -0.2503736080 -0.2237750239 -0.2205744046 -0.2160085264
17	20.600 -0.2503673834 -0.2237587713 -0.2205455127 -0.2159805189
18	20.800 -0.2503615494 -0.2237434693 -0.2205182906 -0.2159540889
19	21.000 -0.2503560777 -0.2237290506 -0.2204926228 -0.2159291378
20	21.200 -0.2503509414 -0.2237154538 -0.2204684062 -0.2159055792
21	21.400 -0.2503461172 -0.2237026240 -0.2204455445 -0.2158833245
22	21.600 -0.2503415826 -0.2236905099 -0.2204239527 -0.2158623017
23	21.800 -0.2503373172 -0.2236790644 -0.2204035483 -0.2158424319
24	22.000 -0.2503333021 -0.2236682455 -0.2203842589 -0.2158236456
25	22.200 -0.2503295227 -0.2236580127 -0.2203660179 -0.2158058780
26	22.400 -0.2503259608 -0.2236483293 -0.2203487597 -0.2157890655
27	22.600 -0.2503226025 -0.2236391613 -0.2203324265 -0.2157731531
28	22.800 -0.2503194327 -0.2236304765 -0.2203169635 -0.2157580874
29	23.000 -0.2503164428 -0.2236222473 -0.2203023213 -0.2157438170
30	23.200 -0.2503136183 -0.2236144452 -0.2202884523 -0.2157302958
31	23.400 -0.2503109488 -0.2236070446 -0.2202753100 -0.2157174782
32	23.600 -0.2503084249 -0.2236000225 -0.2202628553 -0.2157053259
33	23.800 -0.2503060387 -0.2235933587 -0.2202510490 -0.2156937994
34	24.000 -0.2503037797 -0.2235870289 -0.2202398526 -0.2156828616
35	24.200 -0.2503016410 -0.2235810156 -0.2202292181 -0.2156724791
36	24.400 -0.2502996146 -0.2235753022 -0.2202191441 -0.2156626206
37	24.600 -0.2502978730 -0.2235697043 -0.2202095114 -0.2156535888
38	24.800 -0.2502964152 -0.2235642589 -0.2202005114 -0.2156443588
39	25.000 -0.2502941452 -0.2235597905 -0.2201918969 -0.2156359016
40	25.200 -0.2502920949 -0.2235550661 -0.2201759457 -0.2156270214
41	25.400 -0.2502909490 -0.2235506617 -0.2201615449 -0.2156185619
42	25.600 -0.2502894704 -0.2235464210 -0.2201485302 -0.2156103153
43	25.800 -0.2502880649 -0.2235423816 -0.2201367538 -0.2156022143
44	26.000 -0.2502867291 -0.2235385335 -0.2201251134 -0.2155942488
45	26.200 -0.2502854580 -0.2235348636 -0.2201131289 -0.2155862606
46	26.400 -0.2502842490 -0.2235313641 -0.2201014249 -0.2155781697
47	26.600 -0.2502830976 -0.2235280260 -0.2200899006 -0.2155700656
48	26.800 -0.2502820017 -0.2235248413 -0.2200788077 -0.2155619279
49	27.000 -0.2502809572 -0.2235218005 -0.2200687070 -0.2155537703
50	27.200 -0.2502799623 -0.2235188976 -0.2200595935 -0.2155456081
51	27.400 -0.2502790129 -0.2235161230 -0.2200509239 -0.2155371178
52	27.600 -0.2502781619 -0.2235136410 -0.2200424959 -0.2155286643
53	27.800 -0.2502774152 -0.2235112988 -0.2200342226 -0.2155203004
54	28.000 -0.2502764194 -0.2235085187 -0.2200260422 -0.2155119219
55	28.200 -0.2502754799 -0.2235059356 -0.2200179218 -0.2155036259
56	28.400 -0.2502747999 -0.2235034854 -0.2200098575 -0.2154953717
57	28.600 -0.2502741619 -0.2235011656 -0.2200018906 -0.2154871697
58	28.800 -0.2502734750 -0.2234989354 -0.2200000066 -0.2154790656
59	29.000 -0.2502728175 -0.2234978902 -0.2200085775 -0.2154709656
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Table 4: $(1-7)^3\Sigma^+$

3.000	-0.2335943633	-0.1731659151	-0.1562110030	-0.1399503851	-0.1270926298	-0.1228883145	-0.1208365903
3.200	-0.2421948590	-0.1819727013	-0.1658266096	-0.1491571437	-0.1363599196	-0.1326369051	-0.1303355318
3.400	-0.2512112446	-0.1910369255	-0.1760183469	-0.1588951809	-0.1460294954	-0.1429244796	-0.1403253666
3.800	-0.2691382890	-0.2093045039	-0.1968960673	-0.1788220998	-0.1655776384	-0.1640301719	-0.1606358737
4.000	-0.2776734074	-0.2184033590	-0.2070658258	-0.1885955165	-0.1751979762	-0.1743549718	-0.1705439971
4.200	-0.2857685411	-0.2274468295	-0.2166991841	-0.1980039395	-0.1848951767	-0.1838851345	-0.1800569599
4.400	-0.2933494213	-0.2363692889	-0.2255641981	-0.2068948527	-0.1943989483	-0.1925699436	-0.1890310804
4.600	-0.3003659390	-0.2450227901	-0.2335413840	-0.2151470139	-0.2032729898	-0.2005860951	-0.1973513975
4.800	-0.3067885143	-0.2532078282	-0.2406244246	-0.2226776707	-0.2113624188	-0.2079125731	-0.2049359043
5.200	-0.3178214551	-0.2675410014	-0.2522923974	-0.2354330972	-0.2249761964	-0.2204046985	-0.2177382331
5.400	-0.3224549026	-0.2735406315	-0.2569799785	-0.2406662817	-0.2305060928	-0.2255777531	-0.2229538067
5.600	-0.3265359556	-0.2787569840	-0.2609726911	-0.2451809947	-0.2352368664	-0.2300728279	-0.2274195163
5.800	-0.3301028526	-0.2832299551	-0.2643254099	-0.2490289446	-0.2392289743	-0.2339343817	-0.2311872137
6.000	-0.3331986522	-0.2870170076	-0.2670944363	-0.2522687695	-0.2425502573	-0.2372138365	-0.2343173495
6.200	-0.3358684025	-0.2901835805	-0.2693360603	-0.2549614297	-0.2452706646	-0.2399660366	-0.2368733262
6.400	-0.3381570441	-0.2927970474	-0.2711053745	-0.2571671607	-0.2474590076	-0.2422468627	-0.2389177140
6.600	-0.3401079573	-0.2949230490	-0.2724553947	-0.2589435933	-0.2491811664	-0.2441117103	-0.2405100746
6.800	-0.3417620498	-0.2966234423	-0.2734364157	-0.2603446916	-0.2504994439	-0.2456147496	-0.2417059239
7.000	-0.3431571907	-0.2979551811	-0.2740955649	-0.2614201487	-0.2514723565	-0.2468090292	-0.2425561766
7.200	-0.3443279139	-0.2989698682	-0.2744765943	-0.2622155184	-0.2521556765	-0.2477477585	-0.2431071721
7.400	-0.3453053024	-0.2997136779	-0.2746198113	-0.2627705272	-0.2526046018	-0.2484870149	-0.2434011604
7.600	-0.3461169915	-0.3002275282	-0.2745621983	-0.2631225916	-0.2528791979	-0.2490890923	-0.2434825650
7.800	-0.3467872898	-0.3005473984	-0.2743376296	-0.2633037560	-0.2530569000	-0.2496182077	-0.2442820250
8.000	-0.3473373813	-0.3007047421	-0.2739772327	-0.2633427642	-0.2532580648	-0.2500990251	-0.2454319884
8.200	-0.3477856112	-0.3007269252	-0.2735098392	-0.2632655238	-0.2536563734	-0.2504374779	-0.2460968614
8.400	-0.3481477716	-0.3006376880	-0.2729625277	-0.2630941924	-0.2543547186	-0.2504989847	-0.2463496939
8.600	-0.3484374204	-0.3004575649	-0.2723612801	-0.2628509168	-0.2552567481	-0.2503002449	-0.2463101472
8.800	-0.3486661770	-0.3002042920	-0.2717317497	-0.2625558671	-0.2562068900	-0.2499346543	-0.2460726856
9.000	-0.3488439689	-0.2998931530	-0.2711001212	-0.2622302684	-0.2570980000	-0.2494708226	-0.2456981227
9.200	-0.3489792855	-0.2995372907	-0.2704939866	-0.2618985017	-0.2578607098	-0.2489486670	-0.2452256918
9.400	-0.3490793607	-0.2991479859	-0.2699427768	-0.2615907178	-0.2584387662	-0.2483919942	-0.2446828044
9.600	-0.3491503571	-0.2987348919	-0.2694768700	-0.2613395759	-0.2587813306	-0.2478158145	-0.2440903832
9.800	-0.3491975101	-0.2983062372	-0.2691239488	-0.2611556551	-0.2588656105	-0.2472299291	-0.2434655089
10.000	-0.3492527229	-0.2978690144	-0.2689021746	-0.2609968656	-0.2587317308	-0.2466408328	-0.2428227067
10.200	-0.3492374004	-0.2974291233	-0.2688131464	-0.2607972406	-0.2584597211	-0.2460528393	-0.2421745481
10.400	-0.3492370771	-0.2969915080	-0.2688405387	-0.2605204308	-0.2581168118	-0.2454688152	-0.2415319490
10.600	-0.3492269786	-0.2965602639	-0.2689565483	-0.2601666585	-0.2577436966	-0.2448906613	-0.2409043368
10.800	-0.3492093394	-0.2961387294	-0.2691312209	-0.2597545822	-0.2573632139	-0.2443196506	-0.2402997227
11.000	-0.3491860298	-0.2957295714	-0.2693388203	-0.2593066785	-0.2569885073	-0.2437566823	-0.2397247953
11.200	-0.3491585867	-0.2953348545	-0.2695600123	-0.2588426673	-0.2566273975	-0.2432024003	-0.2391849135
11.400	-0.3491282718	-0.2949561128	-0.2697814472	-0.2583778555	-0.2562845141	-0.2426573859	-0.2386842244
11.600	-0.3490961097	-0.2945944046	-0.2699944804	-0.2579234427	-0.2559623400	-0.2421221307	-0.2382256355
11.800	-0.3490629165	-0.2942503840	-0.2701938541	-0.2574873802	-0.2556617661	-0.2415971378	-0.2378109251
12.000	-0.3490293384	-0.2939243595	-0.2703766748	-0.2570752307	-0.2553824423	-0.2410829237	-0.2374408279
12.200	-0.3489958788	-0.2936163386	-0.2705416501	-0.2566908410	-0.2551230134	-0.2405799862	-0.2371150745
12.400	-0.3489629156	-0.2933260983	-0.2706885609	-0.2563368459	-0.2548813505	-0.2400888484	-0.2368325920
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12.800	-0.3488995464	-0.2927971527	-0.2709305157	-0.2557260823	-0.2544405790	-0.2391439183	-0.2363896717
13.000	-0.3488694858	-0.2925572196	-0.2710276562	-0.2554702561	-0.2542360080	-0.2386910349	-0.2362240648
13.200	-0.3488406492	-0.2923326860	-0.2711106087	-0.2552465227	-0.2540390616	-0.2382517631	-0.2360916403
13.400	-0.3488130899	-0.2921227637	-0.2711807440	-0.2550528823	-0.2538485568	-0.2378265021	-0.2359891406
13.600	-0.3487868319	-0.2919266461	-0.2712394154	-0.2548864282	-0.2536641650	-0.2374156491	-0.2359132599
13.800	-0.3487618817	-0.2917435174	-0.2712879274	-0.2547436992	-0.2534861747	-0.2370196309	-0.2358607176
14.000	-0.3487382236	-0.2915725743	-0.2713275202	-0.2546210814	-0.2533151653	-0.2366389304	-0.2358283107
14.200	-0.3487158321	-0.2914130302	-0.2713593273	-0.2545151478	-0.2531517209	-0.2362743056	-0.2358128487
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14.800	-0.3486558940	-0.2909953826	-0.2714180356	-0.2542692148	-0.2527099277	-0.2358494979	-0.2357242252
15.000	-0.3486381833	-0.2908742083	-0.2714282017	-0.2542039466	-0.2525788866	-0.2358788923	-0.2349769336
15.200	-0.3486215276	-0.2907610154	-0.2714348473	-0.2541443550	-0.2524555900	-0.2359147336	-0.2346974823
15.400	-0.3486058795	-0.2906552368	-0.2714385591	-0.2540892905	-0.2523396750	-0.2359553203	-0.2344363498
15.600	-0.3485911919	-0.2905563523	-0.2714398542	-0.2540378380	-0.2522307392	-0.2359992972	-0.2341937649
15.800	-0.3485774150	-0.2904638797	-0.2714391622	-0.2539892624	-0.2521283522	-0.2360454894	-0.2339696780
16.000	-0.3485645030	-0.2903773684	-0.2714368770	-0.2539429926	-0.2520320884	-0.2360929049	-0.2337637690
16.200	-0.3485524092	-0.2902964073	-0.2714333217	-0.2538985763	-0.2519415244	-0.2361407051	-0.2335754456
16.400	-0.3485410888	-0.2902206207	-0.2714287739	-0.2538556742	-0.2518562637	-0.2361881830	-0.2334038408
16.600	-0.3485304984	-0.2901496562	-0.2714234708	-0.2538140187	-0.2517759234	-0.2362347384	-0.2332478783
16.800	-0.3485205958	-0.2900831879	-0.2714176050	-0.2537734166	-0.2517001504	-0.2362798785	-0.2331063072
17.000	-0.3485113397	-0.2900209139	-0.2714113568	-0.2537337311	-0.2516286165	-0.2363231966	-0.2329777861
17.200	-0.3485026910	-0.2899625525	-0.2714048608	-0.2536948602	-0.2515610170	-0.2363643589	-0.2328609649
17.400	-0.3484946115	-0.2899078483	-0.2713982237	-0.2536567439	-0.2514970740	-0.2364031126	-0.2327545326
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17.800	-0.3484800200	-0.2898084426	-0.2713849096	-0.2535826456	-0.2513791480	-0.2364725575	-0.2325679863

1	
2	
3	18.000 -0.3484734417 -0.2897633080 -0.2713783669 -0.2535466471 -0.2513247172 -0.2365029950 -0.2324857729
4	18.200 -0.3484672990 -0.2897209456 -0.2713719749 -0.2535113577 -0.2512730413 -0.2365304686 -0.2324097353
5	18.400 -0.3484615642 -0.2896811796 -0.2713657556 -0.2534767943 -0.2512239406 -0.2365549338 -0.2323391334
6	18.600 -0.3484562087 -0.2896438315 -0.2713597567 -0.2534429794 -0.2511772507 -0.2365763908 -0.2322733226
7	18.800 -0.3484512068 -0.2896087472 -0.2713539878 -0.2534099358 -0.2511328226 -0.2365948564 -0.2322117760
8	19.000 -0.3484465348 -0.2895757788 -0.2713484621 -0.2533776902 -0.2510905224 -0.2366103764 -0.2321540349
9	19.200 -0.3484421694 -0.2895447921 -0.2713431927 -0.2533462660 -0.2510502252 -0.2366230133 -0.2320997181
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12	19.800 -0.3484307082 -0.2894624917 -0.2713289569 -0.2532571294 -0.2509402787 -0.2366445167 -0.2319543631
13	20.000 -0.3484273709 -0.2894382546 -0.2713247288 -0.2532291863 -0.2509069662 -0.2366465718 -0.2319109986
14	20.200 -0.3484242476 -0.2894154575 -0.2713207526 -0.2532021448 -0.2508751896 -0.2366462767 -0.2318698718
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16	20.600 -0.3484185844 -0.2893738536 -0.2713135197 -0.2531507920 -0.2508159606 -0.2366391543 -0.2317937580
17	20.800 -0.3484160177 -0.2893548917 -0.2713102503 -0.2531264794 -0.2507883830 -0.2366326017 -0.2317585331
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19	21.400 -0.3484092329 -0.2893045637 -0.2713016889 -0.2530589320 -0.2507131351 -0.2366026296 -0.2316629514
20	21.600 -0.3484072429 -0.2892897706 -0.2712992214 -0.2530381760 -0.2506903829 -0.2365896555 -0.2316341775
21	22.000 -0.3484036142 -0.2892628210 -0.2712948047 -0.2529992118 -0.2506480942 -0.2365600217 -0.2315808106
22	22.200 -0.3484019611 -0.2892505689 -0.2712928344 -0.2529809664 -0.2506284709 -0.2365436152 -0.2315690921
23	22.400 -0.3484004047 -0.2892390660 -0.2712910091 -0.2529635181 -0.2506098121 -0.2365263030 -0.2315325981
24	23.600 -0.3483927710 -0.2891834572 -0.2712826433 -0.2528742433 -0.2505158255 -0.2364094892 -0.2314143406
25	24.000 -0.3483907572 -0.2891691430 -0.2712806502 -0.2528497726 -0.2504904639 -0.2363678600 -0.2313824151
26	24.200 -0.3483898306 -0.2891626324 -0.2712797704 -0.2528384181 -0.2504787464 -0.2363469033 -0.2313676602
27	24.400 -0.3483889532 -0.2891565154 -0.2712789634 -0.2528276161 -0.2504676284 -0.2363259384 -0.2313536577
28	24.800 -0.3483873335 -0.2891453591 -0.2712775397 -0.2528075835 -0.2504470743 -0.2362842195 -0.2313277693
29	25.000 -0.3483865858 -0.2891402730 -0.2712769161 -0.2527983052 -0.2504375818 -0.2362635678 -0.2313158099
30	25.400 -0.3483852023 -0.2891309791 -0.2712758157 -0.2527811170 -0.2504200318 -0.2362229125 -0.2312937055
31	25.600 -0.3483845621 -0.2891267311 -0.2712753352 -0.2527731654 -0.2504119275 -0.2362029812 -0.2312834951
32	25.800 -0.3483839529 -0.2891227252 -0.2712748943 -0.2527656131 -0.2504042386 -0.2361833597 -0.2312738127
33	26.000 -0.3483833742 -0.2891189459 -0.2712744903 -0.2527584450 -0.2503969453 -0.2361640738 -0.2312646241
34	26.200 -0.3483828226 -0.2891153756 -0.2712741206 -0.2527516393 -0.2503900250 -0.2361451466 -0.2312559082
35	26.400 -0.3483822977 -0.2891120012 -0.2712737838 -0.2527451776 -0.2503834557 -0.2361266012 -0.2312476414
36	26.600 -0.3483817971 -0.2891088086 -0.2712734741 -0.2527390440 -0.2503772256 -0.2361084492 -0.2312397966
37	26.800 -0.3483813204 -0.2891057862 -0.2712731924 -0.2527332237 -0.2503713118 -0.2360907102 -0.2312323481
38	27.000 -0.3483808653 -0.2891029210 -0.2712729335 -0.2527276999 -0.2503657032 -0.2360733914 -0.2312252814
39	27.200 -0.3483804316 -0.2891002030 -0.2712726982 -0.2527224557 -0.2503603797 -0.2360565016 -0.2312185784
40	27.400 -0.3483800167 -0.2890976205 -0.2712724827 -0.2527174782 -0.2503553274 -0.2360400453 -0.2312122137
41	27.600 -0.3483796204 -0.2890951655 -0.2712722857 -0.2527127528 -0.2503505312 -0.2360240278 -0.2312061684
42	28.000 -0.3483788801 -0.2890906021 -0.2712719408 -0.2527040107 -0.2503416628 -0.2359933143 -0.2311949823
43	28.200 -0.3483785334 -0.2890884780 -0.2712717906 -0.2526999681 -0.2503375628 -0.2359786147 -0.2311898057
44	28.400 -0.3483782024 -0.2890864505 -0.2712716538 -0.2526961306 -0.2503336719 -0.2359643504 -0.2311848913
45	28.600 -0.3483778858 -0.2890845132 -0.2712715289 -0.2526924860 -0.2503299803 -0.2359505191 -0.2311802219
46	28.800 -0.3483775818 -0.2890826591 -0.2712714138 -0.2526890242 -0.2503264742 -0.2359371120 -0.2311757823
47	29.000 -0.3483772901 -0.2890808825 -0.2712713079 -0.2526857352 -0.2503231472 -0.2359241252 -0.2311715606
48	29.200 -0.3483770118 -0.2890791819 -0.2712712119 -0.2526826120 -0.2503199926 -0.2359115540 -0.2311675506
49	29.400 -0.3483767444 -0.2890775503 -0.2712711237 -0.2526796433 -0.2503169959 -0.2358993891 -0.2311637384
50	29.600 -0.3483764879 -0.2890759846 -0.2712710426 -0.2526768216 -0.2503141546 -0.2358876260 -0.2311601089
51	29.800 -0.3483762411 -0.2890744800 -0.2712709677 -0.2526741399 -0.2503114589 -0.2358762508 -0.2311566559
52	30.000 -0.3483760053 -0.2890730355 -0.2712708996 -0.2526715882 -0.2503089027 -0.2358652619 -0.2311533742
53	30.200 -0.3483757782 -0.2890716464 -0.2712708360 -0.2526691630 -0.2503064775 -0.2358546489 -0.2311502459
54	30.400 -0.3483755601 -0.2890703103 -0.2712707772 -0.2526668548 -0.2503041783 -0.2358444024 -0.2311472722
55	31.000 -0.3483749558 -0.2890666011 -0.2712706259 -0.2526605778 -0.2502979761 -0.2358157815 -0.2311391674
56	31.200 -0.3483747695 -0.2890654575 -0.2712705830 -0.2526586827 -0.2502961215 -0.2358069206 -0.2311367168
57	31.400 -0.3483745903 -0.2890643573 -0.2712705431 -0.2526568760 -0.2502943638 -0.2357983844 -0.2311343841
58	31.600 -0.3483744183 -0.2890632995 -0.2712705058 -0.2526551557 -0.2502926995 -0.2357901663 -0.2311321580
59	31.800 -0.3483742521 -0.2890622815 -0.2712704705 -0.2526535148 -0.2502911226 -0.2357822565 -0.2311300377
60	32.200 -0.3483739379 -0.2890603617 -0.2712704065 -0.2526504590 -0.2502882144 -0.2357673281 -0.2311260815
	32.400 -0.3483737903 -0.2890594577 -0.2712703786 -0.2526490362 -0.2502868746 -0.2357602954 -0.2311242371
	32.600 -0.3483736473 -0.2890585887 -0.2712703513 -0.2526476780 -0.2502856045 -0.2357535362 -0.2311224782
	32.800 -0.3483735092 -0.2890577534 -0.2712703255 -0.2526463810 -0.2502844011 -0.2357470452 -0.2311207963
	33.000 -0.3483733762 -0.2890569512 -0.2712703014 -0.2526451426 -0.2502832596 -0.2357408122 -0.2311191918
	34.200 -0.3483726702 -0.2890527633 -0.2712701812 -0.2526387793 -0.2502775250 -0.2357083960 -0.2311109430
	34.400 -0.3483725667 -0.2890521588 -0.2712701645 -0.2526378742 -0.2502767269 -0.2357037467 -0.2311097711

Table 5: (1-8)³ Π

3.000	-0.2270437781	-0.1750253864	-0.1452565874	-0.1391513817	-0.1308664866	-0.1205854973	-0.1154865235	-0.1131086051
3.200	-0.2371259118	-0.1827506849	-0.1552473634	-0.1487620898	-0.1394974773	-0.1302013003	-0.1250188863	-0.1220890475
3.400	-0.2471603180	-0.1909577019	-0.1651021338	-0.1587841149	-0.1486221464	-0.1402866058	-0.1350285286	-0.1316048739
3.800	-0.2659503363	-0.2076869514	-0.1831489289	-0.1789303765	-0.1672762007	-0.1606975145	-0.1553533135	-0.1510786239
4.000	-0.2744171709	-0.2158566843	-0.1911299772	-0.1886445228	-0.1764231374	-0.1706282219	-0.1652572752	-0.1606215665
4.200	-0.2821583929	-0.2237229508	-0.1986003636	-0.1976999537	-0.1852362197	-0.1801596768	-0.1747558846	-0.1698032575
4.400	-0.2891311241	-0.2311807503	-0.2068622406	-0.2046946847	-0.1935804008	-0.1891557976	-0.1837038487	-0.1784798339
4.600	-0.2953143545	-0.2381430035	-0.2148777373	-0.2106118617	-0.2013463066	-0.1975070115	-0.1919863764	-0.1865373097
4.800	-0.3007060949	-0.2445432712	-0.2221745897	-0.2159086109	-0.2084550753	-0.2051352790	-0.1995240084	-0.1938963513
5.200	-0.3091901477	-0.2555078839	-0.2344054894	-0.2249520275	-0.2205444098	-0.2180715109	-0.2122206954	-0.2063722305
5.400	-0.3123548979	-0.2600549727	-0.2393416405	-0.2288143663	-0.2255195690	-0.2233746905	-0.2173843295	-0.2114915654
5.600	-0.3148673474	-0.2640004463	-0.2435345275	-0.2323034828	-0.2298182586	-0.2279344128	-0.2218007364	-0.2159066388
5.800	-0.3167849997	-0.2673790001	-0.2470359642	-0.2354596931	-0.2334908552	-0.2317938178	-0.2255212350	-0.2196683654
6.000	-0.3181678243	-0.2702340029	-0.2499056437	-0.2383119493	-0.2366004982	-0.2350058957	-0.2286049096	-0.2228354788
6.200	-0.3190756185	-0.2726133238	-0.2522063096	-0.2408800735	-0.2392137181	-0.2376316321	-0.2311139539	-0.2254688976
6.400	-0.3195661521	-0.2745662444	-0.2540004604	-0.2431847371	-0.2413882275	-0.2397361393	-0.2331102177	-0.2276276845
6.600	-0.3196939911	-0.2761413568	-0.2553483041	-0.2452519638	-0.2431704329	-0.2413828854	-0.2346532000	-0.2293671927
6.800	-0.3195094411	-0.2773852180	-0.2563066163	-0.2471081073	-0.2446016702	-0.2426303366	-0.2373712772	-0.2337388882
7.000	-0.3190602341	-0.2783415269	-0.2569282716	-0.2487750145	-0.2457224118	-0.2435314302	-0.2365985301	-0.2317908694
7.200	-0.3183874668	-0.2790506539	-0.2572623011	-0.2502690277	-0.2465723281	-0.2441337108	-0.2370993644	-0.2325681949
7.400	-0.3175297166	-0.2795494779	-0.2573550962	-0.2516014517	-0.2471891540	-0.2444798241	-0.2373442281	-0.2331135626
7.600	-0.3165211731	-0.2798712242	-0.2572564999	-0.2527768439	-0.2476076357	-0.2446073333	-0.2373712772	-0.2334672703
7.800	-0.3153923739	-0.2800455916	-0.2570094691	-0.2537856245	-0.2478591643	-0.2445494815	-0.2372149383	-0.2336681099
8.000	-0.3141704603	-0.2800988272	-0.2567226801	-0.2545706488	-0.2479716389	-0.2443353527	-0.2369063896	-0.2337540631
8.200	-0.312795731	-0.2800539279	-0.2566396474	-0.2549203756	-0.2479695086	-0.2439904942	-0.2364744741	-0.2337627461
8.400	-0.3115841234	-0.2799307347	-0.2569719089	-0.2546553571	-0.2478738196	-0.2435370544	-0.2359472919	-0.2337294501
8.600	-0.3101741701	-0.2797462154	-0.2574713369	-0.2540530368	-0.2477024335	-0.2429945352	-0.2353580705	-0.2336802194
8.800	-0.3087956652	-0.2795145589	-0.2579622396	-0.2533158745	-0.2474700561	-0.2423797853	-0.2347671197	-0.2336024422
9.000	-0.3074207123	-0.2792473893	-0.2583995658	-0.2525136455	-0.2471884131	-0.2417074839	-0.2343404645	-0.2333595892
9.200	-0.3060627530	-0.2789539501	-0.2587736405	-0.2516789679	-0.2468663928	-0.2409903230	-0.2342336051	-0.2328048533
9.400	-0.3047337075	-0.2786413472	-0.2590845447	-0.2508330621	-0.2465102636	-0.2402392516	-0.2342899306	-0.2320887922
9.600	-0.3034440893	-0.2783148318	-0.2593355427	-0.2499923762	-0.2461239980	-0.2394637642	-0.2343875642	-0.2313231571
9.800	-0.3022030429	-0.2779781327	-0.2595309127	-0.2491706464	-0.2457096874	-0.2386722279	-0.2344808827	-0.2305457063
10.000	-0.3010183776	-0.2776338308	-0.2596750426	-0.2483795914	-0.2452680770	-0.2378723448	-0.2345486050	-0.2297739168
10.200	-0.2998965385	-0.2772837524	-0.2597719777	-0.2476290247	-0.2447991971	-0.2370721725	-0.2345789511	-0.2290185143
10.400	-0.2988425719	-0.2769293440	-0.2598251877	-0.2469266838	-0.2443030664	-0.2362831272	-0.2345620401	-0.2282868852
10.600	-0.2978600907	-0.2765720166	-0.2598374524	-0.2462779315	-0.2437803215	-0.2355325056	-0.2344750288	-0.2275840283
10.800	-0.2969512457	-0.2762134114	-0.2598108916	-0.2456856051	-0.2432326035	-0.2349254143	-0.2342188373	-0.2269130104
11.000	-0.2961167450	-0.2758555604	-0.2597470482	-0.2451501978	-0.2426625749	-0.2346106823	-0.2336515494	-0.2262753878
11.200	-0.2953559121	-0.2755009511	-0.2596470623	-0.2446703631	-0.2420735755	-0.2344263795	-0.2329422580	-0.2256714014
11.400	-0.2946668149	-0.2751524493	-0.2595118721	-0.2442434570	-0.2414693068	-0.2342572830	-0.2322131891	-0.2251002754
11.600	-0.2940464466	-0.2748131715	-0.2593424410	-0.2438659133	-0.2408537445	-0.2340797808	-0.2314943736	-0.2245604271
11.800	-0.2934909428	-0.2744862585	-0.2591399606	-0.2435334479	-0.2402313277	-0.2338886192	-0.2307966309	-0.2240497816
12.000	-0.2929958181	-0.2741746377	-0.2589060222	-0.2432412067	-0.2396072026	-0.2336818615	-0.2301260501	-0.2235658174
12.200	-0.2925562150	-0.2738808309	-0.2586427313	-0.2429839484	-0.2389874680	-0.2334576212	-0.2294869988	-0.2231058568
12.400	-0.2921671173	-0.2736067843	-0.2583527574	-0.2427562755	-0.2383793274	-0.2332129869	-0.2288828660	-0.2226672365
12.600	-0.2918235340	-0.2733537708	-0.2580393162	-0.2425528414	-0.2377910536	-0.2329436407	-0.2283162159	-0.2222474645
12.800	-0.2915206480	-0.2731223898	-0.2577060904	-0.2423685529	-0.2372317640	-0.2326441457	-0.2277888239	-0.2218445017
13.000	-0.2912539081	-0.2729126136	-0.2573571125	-0.2421986734	-0.2367106305	-0.2323084042	-0.2273015710	-0.2214567584
13.200	-0.2910191134	-0.2727238637	-0.2569966071	-0.2420389120	-0.2362356617	-0.2319310973	-0.2268544585	-0.2210832930
13.400	-0.2908124273	-0.2725551493	-0.2566288509	-0.2418854754	-0.2358121406	-0.2315092349	-0.2264466266	-0.2207238218
13.600	-0.2906303982	-0.2724051748	-0.2562580247	-0.2417350743	-0.2354414447	-0.2310433695	-0.2260764338	-0.2203786614
13.800	-0.2904699490	-0.2722724747	-0.2558880889	-0.2415849280	-0.2351209623	-0.2305377628	-0.2257415998	-0.2200486097
14.000	-0.2903283596	-0.2721554856	-0.2555226823	-0.2414327476	-0.2348451220	-0.2299994136	-0.2254393709	-0.2197347595
14.200	-0.2902032382	-0.2720526334	-0.2551650450	-0.2412767224	-0.2346069365	-0.2294365753	-0.2251666847	-0.2194383104
14.400	-0.2900924945	-0.2719623988	-0.2548179785	-0.2411154990	-0.2343993000	-0.2288575122	-0.2249203205	-0.2191603712
14.600	-0.2899943005	-0.2718833524	-0.2544838186	-0.2409481669	-0.2342157623	-0.2282697922	-0.2246969847	-0.2189017909
14.800	-0.2899070694	-0.2718141623	-0.2541644196	-0.2407742219	-0.2340508155	-0.2276801144	-0.2244933372	-0.2186630460
15.000	-0.2898294250	-0.2717536279	-0.2538611773	-0.2405935481	-0.2338998998	-0.2270944568	-0.2243059208	-0.2184441826
15.200	-0.2897601741	-0.2717006519	-0.2535750477	-0.2404063838	-0.2337593005	-0.2265184941	-0.2241309204	-0.2182448671
15.400	-0.2896982780	-0.2716542820	-0.2533065818	-0.2402132609	-0.2336259106	-0.2259582715	-0.2239635855	-0.2180642028
15.600	-0.2896428417	-0.2716136596	-0.2530559740	-0.2400150034	-0.2334972105	-0.2254216349	-0.2237970684	-0.2179011530
15.800	-0.2895930858	-0.2715780355	-0.2528231088	-0.2398126550	-0.2333710747	-0.2249208987	-0.2236197840	-0.2177544129
16.000	-0.2895483344	-0.2715467583	-0.2526076109	-0.2396074336	-0.2332456970	-0.2244772496	-0.2234110941	-0.2176225634
16.200	-0.2895080007	-0.2715192563	-0.2524088971	-0.2394006817	-0.2331195258	-0.2241199684	-0.2231421441	-0.2175041596
16.400	-0.2894715753	-0.2714950370	-0.2522262311	-0.2391938179	-0.2329912235	-0.2238621875	-0.2228001273	-0.2173978094
16.600	-0.2894386110	-0.2714736736	-0.2520587610	-0.2389882754	-0.2328596037	-0.2236814110	-0.2224077571	-0.2173021916
16.800	-0.2894087224	-0.2714547902	-0.2519055649	-0.2387854911	-0.2327237203	-0.2235466879	-0.2219961801	-0.2172161634
17.000	-0.2893815694	-0.2714380708	-0.2517656813	-0.2385868108	-0.2325827115	-0.2234385099	-0.2215849533	-0.2171386575
17.200	-0.2893568563	-0.2714232325	-0.2516381393	-0.2383934813	-0.2324358944	-0.2233468240	-0.2211841062	-0.217087529
17.400	-0.2893343209	-0.2714100387	-0.2515219825	-0.2382066132	-0.2322827409	-0.2232663710	-0.2207987609	-0.2170056523
17.600	-0.2893137372	-0.2713982792	-0.2514162793	-0.2380271545	-0.2321228862	-0.2231941787	-0.2204316361	-0.2169486702

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17.800	-0.2892949031	-0.2713877770	-0.2513201453	-0.2378558729	-0.2319561350	-0.2231284218	-0.2200841670	-0.2168972139
18.000	-0.2892776419	-0.2713783778	-0.2512327407	-0.2376933406	-0.2317824390	-0.2230678866	-0.2197570321	-0.2168507732
18.200	-0.2892617956	-0.2713699442	-0.2511532831	-0.2375399424	-0.2316019158	-0.2230117159	-0.2194504333	-0.2168089099
18.400	-0.2892472272	-0.2713623610	-0.2510810440	-0.2373958791	-0.2314148237	-0.2229592660	-0.2191641915	-0.2167712436
18.600	-0.2892338125	-0.2713555271	-0.2510153519	-0.2372611832	-0.2312215485	-0.2229100330	-0.2188978669	-0.2167374444
18.800	-0.2892214432	-0.2713493530	-0.2509555925	-0.2371357364	-0.2310225800	-0.2228636052	-0.2186507927	-0.2167072211
19.000	-0.2892100217	-0.2713437637	-0.2509012041	-0.2370193067	-0.2308185274	-0.2228196555	-0.2184221853	-0.2166803233
19.200	-0.2891994608	-0.2713386920	-0.2508516757	-0.2369115496	-0.2306099707	-0.2227778608	-0.2182110577	-0.2166565204
19.400	-0.2891896840	-0.2713340801	-0.2508065420	-0.2368120604	-0.2303976151	-0.2227379743	-0.2180163935	-0.2166356124
19.600	-0.2891806212	-0.2713298776	-0.2507653828	-0.2367203796	-0.2301821635	-0.2226997668	-0.2178371398	-0.2166174138
19.800	-0.2891722100	-0.2713260399	-0.2507278173	-0.2366360177	-0.2299642723	-0.2226630147	-0.2176721695	-0.2166017505
20.000	-0.2891643951	-0.2713225268	-0.2506935023	-0.2365584804	-0.2297447265	-0.2226275446	-0.2175204907	-0.2165884750
20.200	-0.2891571255	-0.2713193060	-0.2506621311	-0.2364872659	-0.2295241522	-0.2225931639	-0.2173810168	-0.2165774313
20.400	-0.2891503570	-0.2713163481	-0.2506334217	-0.2364218904	-0.2293031934	-0.2225597014	-0.2172527537	-0.2165684755
20.600	-0.2891440469	-0.2713136241	-0.2506071221	-0.2363618829	-0.2290824592	-0.2225269946	-0.2171347567	-0.2165614610
20.800	-0.2891381593	-0.2713111140	-0.2505830080	-0.2363068019	-0.2288625263	-0.2224948837	-0.2170261556	-0.2165562407
21.000	-0.2891326595	-0.2713087945	-0.2505608732	-0.2362562338	-0.2286439332	-0.2224632168	-0.2169261543	-0.2165526560
21.200	-0.2891275177	-0.2713066474	-0.2505405360	-0.2362097885	-0.2284271865	-0.2224318453	-0.2168340481	-0.2165505203
21.400	-0.2891227051	-0.2713046578	-0.2505218298	-0.2361671113	-0.2282127573	-0.2224006228	-0.2167492624	-0.2165495771
21.600	-0.2891181980	-0.2713028114	-0.2505046037	-0.2361278729	-0.2280010827	-0.2223694074	-0.2166715751	-0.2165492824
21.800	-0.2891139717	-0.2713010942	-0.2504887264	-0.2360917708	-0.2277925762	-0.2223380528	-0.2166028198	-0.2165470748
22.000	-0.2891100060	-0.2712994950	-0.2504740726	-0.2360585292	-0.2275876201	-0.2223064232	-0.2165661253	-0.2165191625
22.200	-0.2891062823	-0.2712980048	-0.2504605393	-0.2360278990	-0.2273865780	-0.2222743786	-0.2165643046	-0.2164621057
22.400	-0.2891027814	-0.2712966129	-0.2504480219	-0.2359996483	-0.2271897790	-0.2222417796	-0.2165673916	-0.2164052969
22.600	-0.2890994884	-0.2712953110	-0.2504364334	-0.2359735724	-0.2269975465	-0.2222084951	-0.2165717337	-0.2163518344
22.800	-0.2890963869	-0.2712940917	-0.2504256925	-0.2359494801	-0.2268101605	-0.2221743859	-0.2165766639	-0.2163018752
23.000	-0.2890934660	-0.2712929504	-0.2504157293	-0.2359272029	-0.2266279250	-0.2221393386	-0.2165818926	-0.2162552458
23.200	-0.2890907112	-0.2712918784	-0.2504064754	-0.2359065826	-0.2264510886	-0.2221032250	-0.2165872008	-0.2162117173
23.400	-0.2890881107	-0.2712908704	-0.2503978700	-0.2358874796	-0.2262798854	-0.2220659361	-0.2165924060	-0.2161710636
23.600	-0.2890856550	-0.2712899223	-0.2503898638	-0.2358697636	-0.2261145372	-0.2220273690	-0.2165973435	-0.2161330533
23.800	-0.2890833349	-0.2712890306	-0.2503824052	-0.2358533219	-0.2259552418	-0.2219874358	-0.2166018605	-0.2160974907
24.000	-0.2890811400	-0.2712881894	-0.2503754502	-0.2358380438	-0.2258021680	-0.2219460636	-0.2166058120	-0.2160641856
24.200	-0.2890790626	-0.2712873951	-0.2503689574	-0.2358238372	-0.2256554611	-0.2219032031	-0.2166090660	-0.2160329702
24.400	-0.2890770952	-0.2712866452	-0.2503628939	-0.2358106123	-0.2255152333	-0.2218588197	-0.2166114988	-0.2160036822
24.800	-0.2890734617	-0.2712852641	-0.2503519155	-0.2357868010	-0.2252545278	-0.2217655136	-0.2166134925	-0.2159503413
25.000	-0.2890717833	-0.2712846277	-0.2503469466	-0.2357760746	-0.2251341008	-0.2217166675	-0.2166128721	-0.2159260353
25.400	-0.2890686756	-0.2712834520	-0.2503379182	-0.2357566834	-0.2249129451	-0.2216150176	-0.2166080648	-0.2158816039
25.600	-0.2890672365	-0.2712829084	-0.2503338148	-0.2357479128	-0.2248120366	-0.2215624773	-0.2166037873	-0.2158612886
25.800	-0.2890658673	-0.2712823910	-0.2503299621	-0.2357396979	-0.2247173924	-0.2215090187	-0.2165982298	-0.2158421155
26.000	-0.2890645650	-0.2712818995	-0.2503263405	-0.2357319962	-0.2246288312	-0.2214548383	-0.2165913898	-0.2158240227
26.400	-0.2890621431	-0.2712809852	-0.2503197265	-0.2357179834	-0.2244690889	-0.2213451931	-0.2165739349	-0.2157907637
26.600	-0.2890610166	-0.2712805596	-0.2503167073	-0.2357116044	-0.2243974118	-0.2212901961	-0.2165633956	-0.2157754748
26.800	-0.2890599436	-0.2712801539	-0.2503138609	-0.2357056069	-0.2243308427	-0.2212354048	-0.2165517273	-0.2157610053
27.000	-0.2890589197	-0.2712797662	-0.2503111789	-0.2356999613	-0.2242691208	-0.2211810985	-0.2165390816	-0.2157472994
27.200	-0.2890579434	-0.2712793965	-0.2503086487	-0.2356946448	-0.2242119102	-0.2211274108	-0.2165253893	-0.2157343107
27.400	-0.2890570107	-0.2712790422	-0.2503062591	-0.2356889634	-0.2241589504	-0.2210745985	-0.2165108263	-0.2157219976
27.600	-0.2890561203	-0.2712787037	-0.2503040030	-0.2356849079	-0.2241099592	-0.2210228577	-0.2164954991	-0.2157103160
28.000	-0.2890544581	-0.2712780691	-0.2502998579	-0.2356762385	-0.2240227928	-0.2209232644	-0.2164630095	-0.2156886957
28.200	-0.2890536815	-0.2712777715	-0.2502979511	-0.2356722605	-0.2239840990	-0.2208756896	-0.2164460815	-0.2156786896
28.600	-0.2890522311	-0.2712772139	-0.2502944415	-0.2356649461	-0.2239152931	-0.2207855083	-0.2164114511	-0.2156601329
28.800	-0.2890515526	-0.2712769513	-0.2502928234	-0.2356615801	-0.2238847419	-0.2207430410	-0.2163939714	-0.2156515256
29.400	-0.2890496891	-0.2712762254	-0.2502884562	-0.2356525222	-0.2238061699	-0.2206265337	-0.2163420921	-0.2156281019
30.200	-0.2890475561	-0.2712753816	-0.2502835916	-0.2356424955	-0.2237259489	-0.2204963206	-0.2162771195	-0.2156016725
30.400	-0.2890470780	-0.2712751904	-0.2502825192	-0.2356402997	-0.2237093874	-0.2204680198	-0.2162619996	-0.2155958054
31.400	-0.2890449707	-0.2712743333	-0.2502778719	-0.2356308627	-0.2236424968	-0.2203491198	-0.2161944284	-0.2155701644
31.600	-0.2890446007	-0.2712741804	-0.2502770655	-0.2356292460	-0.2236317485	-0.2203293967	-0.2161825651	-0.2155656891
31.800	-0.2890442450	-0.2712740325	-0.2502762949	-0.2356277051	-0.2236217208	-0.2203108685	-0.2161712408	-0.2155614091

Table 6: $(1-4)^3\Delta$

3.000	-0.1687538801	-0.1286505238	-0.1198988754	-0.1120315433
3.200	-0.1753802913	-0.1372170288	-0.1292849684	-0.1208909282
3.400	-0.1827819674	-0.1463046996	-0.1391771238	-0.1304262472
3.800	-0.1984558187	-0.1649047134	-0.1593047312	-0.1499575687
4.000	-0.2062693481	-0.1740214868	-0.1691314419	-0.1595125541
4.200	-0.2138439186	-0.1828012627	-0.1785692275	-0.1686958667
4.400	-0.2210479384	-0.1911115137	-0.1874718116	-0.1773665673
4.600	-0.2277740146	-0.1988466255	-0.1957214001	-0.1854134754
4.800	-0.2339404185	-0.2059319407	-0.2032334012	-0.1927586651
5.200	-0.2444035564	-0.2180119809	-0.2158758153	-0.2051981265
5.400	-0.2486709783	-0.2230045748	-0.2210002692	-0.2102931701
5.600	-0.2523137576	-0.2273306234	-0.2253674250	-0.2146774707
5.800	-0.2553661016	-0.2310289238	-0.2290317949	-0.2183993753
6.000	-0.2578720844	-0.2341449608	-0.2320576671	-0.2215148969
6.200	-0.2598810496	-0.2367284388	-0.2345120904	-0.2240828837
6.400	-0.2614442024	-0.2388311096	-0.2364604053	-0.2261617374
6.600	-0.2626122994	-0.2405047362	-0.2379640282	-0.2278074056
6.800	-0.2634341404	-0.2417993770	-0.2390795738	-0.2290722728
7.000	-0.2639556672	-0.2427622050	-0.2398586114	-0.2300046191
7.200	-0.2642194697	-0.2434367916	-0.2403477343	-0.2306484157
7.400	-0.2642645695	-0.2438627653	-0.2405887546	-0.2310433231
7.600	-0.2641264080	-0.2440757235	-0.2406189831	-0.2312247982
7.800	-0.2638369503	-0.2441073143	-0.2404715553	-0.2312243104
8.000	-0.2634248784	-0.2439854412	-0.2401758059	-0.2310696142
8.200	-0.2629158388	-0.2437345151	-0.2397576304	-0.2307850686
8.400	-0.2623326913	-0.2433757588	-0.2392398533	-0.2303919720
8.600	-0.2616957404	-0.2429274946	-0.2386425654	-0.2299089063
8.800	-0.2610229441	-0.2424054475	-0.2379834320	-0.2293520777
9.000	-0.2603300598	-0.2418230350	-0.2372779518	-0.2287356341
9.200	-0.2596307856	-0.2411916501	-0.2365396920	-0.2280719881
9.400	-0.2589368429	-0.2405209587	-0.2357804983	-0.2273721158
9.600	-0.2582580658	-0.2398191861	-0.2350106717	-0.2266458509
9.800	-0.2576024705	-0.2390933953	-0.2342391293	-0.2259021537
10.000	-0.2569763543	-0.2383497671	-0.2334735560	-0.2251493919
10.200	-0.2563843874	-0.2375938202	-0.2327205145	-0.2243955880
10.400	-0.2558297510	-0.2368306225	-0.2319855470	-0.2236486978
10.600	-0.2553142843	-0.2360649325	-0.2312732536	-0.2229169234
10.800	-0.2548386659	-0.2353012992	-0.2305873489	-0.2222091092
11.000	-0.2544025938	-0.2345441256	-0.2299307104	-0.2215352077
11.200	-0.2540049828	-0.2337976826	-0.2293054033	-0.2209066893
11.400	-0.2536441487	-0.2330661042	-0.2287127265	-0.2203364023
11.600	-0.2533179868	-0.2323533659	-0.2281532361	-0.2198369403
11.800	-0.2530241145	-0.2316632508	-0.2276268049	-0.2194170373
12.000	-0.2527600108	-0.2309993097	-0.2271326728	-0.2190778467
12.200	-0.2525231136	-0.2303648169	-0.2266695412	-0.2188124896
12.400	-0.2523108999	-0.2297627242	-0.2262356700	-0.2186090742
12.600	-0.2521209525	-0.2291955877	-0.2258290058	-0.2184543536
12.800	-0.2519509858	-0.2286654980	-0.2254473305	-0.2183360122
13.000	-0.2517988825	-0.2281739846	-0.2250884293	-0.2182435958
13.200	-0.2516626966	-0.2277219216	-0.2247502547	-0.2181686462
13.400	-0.2515406619	-0.2273094416	-0.2244310776	-0.2181045486
13.600	-0.2514311914	-0.2269358971	-0.2241295922	-0.2180462618
13.800	-0.2513328626	-0.2265998776	-0.2238449428	-0.2179900655
14.000	-0.2512444085	-0.2262993041	-0.2235766787	-0.2179333132
14.200	-0.2511647064	-0.2260315886	-0.2233246380	-0.2178742432
14.400	-0.2510927659	-0.2257938272	-0.2230887963	-0.2178118071
14.600	-0.2510277151	-0.2255829926	-0.2228691210	-0.2177455226
14.800	-0.2509687858	-0.2253960911	-0.2226654524	-0.2176753640
15.000	-0.2509153035	-0.2252302908	-0.2224774458	-0.2176016408
15.200	-0.2508666746	-0.2250829858	-0.2223045453	-0.2175249042
15.400	-0.2508223802	-0.2249518343	-0.2221460066	-0.2174458549
15.600	-0.2507819625	-0.2248347682	-0.2220009359	-0.2173652747
15.800	-0.2507450201	-0.2247299727	-0.2218683453	-0.2172839550
16.000	-0.2507111970	-0.2246358815	-0.2217472003	-0.2172026588
16.200	-0.2506801821	-0.2245511342	-0.2216364607	-0.2171220749
16.400	-0.2506516994	-0.2244745646	-0.2215351265	-0.2170428112
16.600	-0.2506255045	-0.2244051665	-0.2214422481	-0.2169653756
16.800	-0.2506013780	-0.2243420753	-0.2213569533	-0.2168901768
17.000	-0.2505791313	-0.2242845494	-0.2212784445	-0.2168175241
17.200	-0.2505585905	-0.2242319465	-0.2212060081	-0.2167476443
17.400	-0.2505396002	-0.2241837155	-0.2211390093	-0.2166806851
17.600	-0.2505220249	-0.2241393772	-0.2210768865	-0.2166167322
17.800	-0.2505057417	-0.2240985181	-0.2210191441	-0.2165558121

1	
2	
3	18.000 -0.2504906399 -0.2240607792 -0.2209653510 -0.2164979126
4	18.200 -0.2504766177 -0.2240258456 -0.2209151270 -0.2164429831
5	18.400 -0.2504635870 -0.2239934448 -0.2208681421 -0.2163909502
6	18.600 -0.2504514653 -0.2239633343 -0.2208241026 -0.2163417182
7	18.800 -0.2504401799 -0.2239353032 -0.2207827550 -0.2162951778
8	19.000 -0.2504296631 -0.2239091664 -0.2207438761 -0.2162512135
9	19.200 -0.2504198553 -0.2238847585 -0.2207072663 -0.2162097028
10	19.400 -0.2504107002 -0.2238619315 -0.2206727491 -0.2161705223
11	19.600 -0.2504021476 -0.2238405558 -0.2206401715 -0.2161335522
12	19.800 -0.2503941519 -0.2238205152 -0.2206093933 -0.2160986684
13	20.000 -0.2503866719 -0.2238017039 -0.2205802911 -0.2160657518
14	20.200 -0.2503796676 -0.2237840279 -0.2205527512 -0.2160346915
15	20.400 -0.2503731062 -0.2237674039 -0.2205266743 -0.2160053776
16	20.600 -0.2503669535 -0.2237517526 -0.2205019664 -0.2159777067
17	20.800 -0.2503611811 -0.2237370065 -0.2204785454 -0.2159515824
18	21.000 -0.2503557619 -0.2237231014 -0.2204563330 -0.2159269075
19	21.200 -0.2503506707 -0.2237099791 -0.2204352600 -0.2159035982
20	21.400 -0.2503458852 -0.2236975877 -0.2204152597 -0.2158815673
21	21.600 -0.2503413835 -0.2236858777 -0.2203962739 -0.2158607454
22	21.800 -0.2503371464 -0.2236748053 -0.2203782446 -0.2158410550
23	22.000 -0.2503331556 -0.2236643304 -0.2203611206 -0.2158224290
24	22.200 -0.2503293969 -0.2236544147 -0.2203448551 -0.2158048041
25	22.400 -0.2503258529 -0.2236450241 -0.2203293997 -0.2157881186
26	22.600 -0.2503225097 -0.2236361253 -0.2203147124 -0.2157723186
27	22.800 -0.2503193532 -0.2236276884 -0.2203007528 -0.2157573525
28	23.000 -0.2503163745 -0.2236196875 -0.2202874840 -0.2157431704
29	23.200 -0.2503135597 -0.2236120958 -0.2202748704 -0.2157297270
30	23.400 -0.2503108985 -0.2236048885 -0.2202628756 -0.2157169785
31	23.600 -0.2503083817 -0.2235980441 -0.2202514705 -0.2157048870
32	23.800 -0.2503060017 -0.2235915437 -0.2202406242 -0.2156934143
33	24.000 -0.2503037478 -0.2235853641 -0.2202303062 -0.2156825236
34	24.200 -0.2503016133 -0.2235794894 -0.2202204856 -0.2156721826
35	24.400 -0.2502995909 -0.2235739029 -0.2202111472 -0.2156623606
36	24.600 -0.2502975556 -0.2235683288 -0.2202019380 -0.2156525386
37	24.800 -0.2502955856 -0.2235635288 -0.2201938039 -0.2156441595
38	25.000 -0.2502941303 -0.2235587132 -0.2201857536 -0.2156357271
39	25.200 -0.2502927850 -0.2235545929 -0.2201777921 -0.2156273946
40	25.400 -0.2502909381 -0.2235497576 -0.2201707921 -0.2156200806
41	25.600 -0.2502894609 -0.2235455929 -0.2201638417 -0.2156128229
42	25.800 -0.2502880566 -0.2235416231 -0.2201572217 -0.2156059129
43	26.000 -0.2502867221 -0.2235378390 -0.2201509145 -0.2155993353
44	26.200 -0.2502854521 -0.2235342278 -0.2201449036 -0.2155930696
45	26.400 -0.2502842439 -0.2235307820 -0.2201391746 -0.2155871013
46	26.600 -0.2502830931 -0.2235274932 -0.2201337121 -0.2155814127
47	26.800 -0.2502819979 -0.2235243537 -0.2201285041 -0.2155759904
48	27.000 -0.2502809539 -0.2235213545 -0.2201235368 -0.2155708201
49	27.200 -0.2502799596 -0.2235184896 -0.2201187984 -0.2155658882
50	27.400 -0.2502790106 -0.2235157499 -0.2201142758 -0.2155611839
51	27.600 -0.2502781179 -0.2235131355 -0.2201101906 -0.2155566896
52	27.800 -0.2502772888 -0.2235106471 -0.2201062758 -0.2155524003
53	28.000 -0.2502764179 -0.2235082335 -0.2201019062 -0.2155483140
54	28.200 -0.2502755999 -0.2235059349 -0.2200981421 -0.2155444297
55	28.400 -0.2502748788 -0.2235037471 -0.2200945597 -0.2155406703
56	28.600 -0.2502741633 -0.2235016699 -0.2200911124 -0.2155370459
57	28.800 -0.2502734539 -0.2234996981 -0.2200878124 -0.2155335574
58	29.000 -0.2502727499 -0.2234978361 -0.2200846500 -0.2155302049
59	29.200 -0.2502720519 -0.2234960761 -0.2200816271 -0.2155269874
60	29.400 -0.2502713599 -0.2234944199 -0.2200787446 -0.2155239049

The following tables display the dipole moment functions between the four lowest Σ^+ states with the seven lowest Σ states of **NaK**, for singlet (Tables 1 to 4) and triplet (Tables 5 to 8) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 2.54158059 Debye. All states are identified with their number with increasing energy. When both indexes are equal, the function corresponds to the permanent dipole moment.

Table 1: (1) $^1\Sigma^+$ -(1-7) $^1\Sigma^+$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	-0.703200E+00	0.309080E+01	0.111870E+01	-0.202600E+00	-0.195100E+00	-0.103200E+00	0.149000E+00
3.200	-0.762200E+00	0.310650E+01	0.113810E+01	-0.218200E+00	-0.222300E+00	-0.111700E+00	0.136900E+00
3.400	-0.806700E+00	0.312990E+01	0.114430E+01	-0.228100E+00	-0.242900E+00	-0.135600E+00	0.115800E+00
3.800	-0.867300E+00	0.319210E+01	0.111510E+01	-0.237200E+00	-0.256100E+00	-0.226600E+00	0.587000E-01
4.000	-0.888600E+00	0.322690E+01	0.108460E+01	-0.238400E+00	-0.251100E+00	-0.278800E+00	0.323000E-01
4.200	-0.906400E+00	0.326250E+01	0.104950E+01	-0.237600E+00	-0.243400E+00	-0.325600E+00	0.126000E-01
4.400	-0.922300E+00	0.329850E+01	0.101440E+01	-0.234600E+00	-0.235700E+00	-0.363700E+00	-0.900000E-03
4.600	-0.937100E+00	0.333540E+01	0.982500E+00	-0.229900E+00	-0.229000E+00	-0.392500E+00	-0.320000E-02
4.800	-0.951800E+00	0.337380E+01	0.955700E+00	-0.224200E+00	-0.222700E+00	-0.413100E+00	-0.180000E-02
5.200	-0.982100E+00	0.345700E+01	0.920100E+00	-0.213400E+00	-0.206500E+00	-0.437500E+00	-0.900000E-02
5.400	-0.998100E+00	0.350230E+01	0.911600E+00	-0.209500E+00	-0.194400E+00	-0.444900E+00	-0.153000E-01
5.600	-0.101450E+01	0.355020E+01	0.908900E+00	-0.206900E+00	-0.178400E+00	-0.450700E+00	-0.209000E-01
5.800	-0.103130E+01	0.360050E+01	0.911900E+00	-0.205400E+00	-0.157700E+00	-0.455600E+00	-0.253000E-01
6.000	-0.104800E+01	0.365280E+01	0.920200E+00	-0.204900E+00	-0.132000E+00	-0.459700E+00	-0.283000E-01
6.200	-0.106430E+01	0.370680E+01	0.933400E+00	-0.205000E+00	-0.101000E+00	-0.462500E+00	-0.295000E-01
6.400	-0.107980E+01	0.376210E+01	0.951200E+00	-0.205400E+00	-0.646000E-01	-0.463300E+00	-0.286000E-01
6.600	-0.109400E+01	0.381800E+01	0.973500E+00	-0.205700E+00	-0.233000E-01	-0.461300E+00	-0.254000E-01
6.800	-0.110630E+01	0.387390E+01	0.999900E+00	-0.205000E+00	0.218000E-01	-0.455300E+00	-0.197000E-01
7.000	-0.111620E+01	0.392910E+01	0.103050E+01	-0.202400E+00	0.696000E-01	-0.444900E+00	-0.112000E-01
7.200	-0.112310E+01	0.398290E+01	0.106490E+01	-0.196400E+00	0.119000E+00	-0.430000E+00	-0.100000E-03
7.400	-0.112640E+01	0.403440E+01	0.110320E+01	-0.184600E+00	0.169200E+00	-0.411000E+00	0.136000E-01
7.600	-0.112560E+01	0.408290E+01	0.114510E+01	-0.163000E+00	0.219800E+00	-0.388500E+00	0.295000E-01
7.800	-0.112020E+01	0.412760E+01	0.119040E+01	-0.126800E+00	0.269200E+00	-0.363400E+00	0.473000E-01
8.000	-0.110970E+01	0.416750E+01	0.123890E+01	-0.739000E-01	0.312800E+00	-0.336000E+00	0.663000E-01
8.200	-0.109380E+01	0.420180E+01	0.129010E+01	0.100000E-01	0.344600E+00	-0.306900E+00	0.861000E-01
8.400	-0.107210E+01	0.423000E+01	0.134360E+01	0.534000E-01	0.363700E+00	-0.276100E+00	0.106200E+00
8.600	-0.104470E+01	0.425120E+01	0.139880E+01	0.109900E+00	0.374400E+00	-0.243700E+00	0.126300E+00
8.800	-0.101150E+01	0.426490E+01	0.145490E+01	0.159200E+00	0.380900E+00	-0.209600E+00	0.145900E+00
9.000	-0.972900E+00	0.427080E+01	0.151130E+01	0.203500E+00	0.385200E+00	-0.173800E+00	0.164700E+00
9.200	-0.929400E+00	0.426860E+01	0.156720E+01	0.244900E+00	0.388200E+00	-0.136400E+00	0.162400E+00
9.400	-0.881600E+00	0.425820E+01	0.162180E+01	0.284600E+00	0.390000E+00	-0.973000E-01	0.198500E+00
9.600	-0.830300E+00	0.423990E+01	0.167460E+01	0.323600E+00	0.390600E+00	-0.568000E-01	0.212800E+00
9.800	-0.776600E+00	0.421410E+01	0.172490E+01	0.362200E+00	0.389800E+00	-0.150000E-01	0.225000E+00
10.000	-0.721300E+00	0.418130E+01	0.177230E+01	0.400300E+00	0.387600E+00	0.276000E-01	0.234800E+00
10.200	-0.665500E+00	0.414240E+01	0.181650E+01	0.437700E+00	0.384000E+00	0.707000E-01	0.242100E+00
10.400	-0.610100E+00	0.409820E+01	0.185740E+01	0.473900E+00	0.379200E+00	0.113900E+00	0.246800E+00
10.600	-0.556000E+00	0.404980E+01	0.189500E+01	0.508300E+00	0.373400E+00	0.156700E+00	0.248700E+00
10.800	-0.503800E+00	0.399830E+01	0.192940E+01	0.540200E+00	0.366700E+00	0.198700E+00	0.248000E+00
11.000	-0.454200E+00	0.394480E+01	0.196080E+01	0.568800E+00	0.359500E+00	0.239400E+00	0.244500E+00
11.200	-0.407500E+00	0.389020E+01	0.198950E+01	0.593300E+00	0.351900E+00	0.278500E+00	0.238200E+00
11.400	-0.364100E+00	0.383560E+01	0.201600E+01	0.613200E+00	0.344100E+00	0.315300E+00	0.229100E+00
11.600	-0.324100E+00	0.378190E+01	0.204040E+01	0.627600E+00	0.336200E+00	0.349400E+00	0.217200E+00
11.800	-0.287500E+00	0.372990E+01	0.206320E+01	0.635800E+00	0.328300E+00	0.380100E+00	0.202900E+00
12.000	-0.254200E+00	0.368010E+01	0.208460E+01	0.637400E+00	0.320400E+00	0.407100E+00	0.186900E+00
12.200	-0.224200E+00	0.363320E+01	0.210490E+01	0.631800E+00	0.312500E+00	0.429900E+00	0.170000E+00
12.400	-0.197200E+00	0.358950E+01	0.212420E+01	0.618400E+00	0.304600E+00	0.448300E+00	0.152900E+00
12.600	-0.173100E+00	0.354930E+01	0.214270E+01	0.596900E+00	0.296600E+00	0.466200E+00	0.136200E+00
12.800	-0.151600E+00	0.351280E+01	0.216010E+01	0.567100E+00	0.288500E+00	0.472800E+00	0.120100E+00
13.000	-0.132500E+00	0.348010E+01	0.217640E+01	0.528800E+00	0.280200E+00	0.479200E+00	0.104700E+00
13.200	-0.115600E+00	0.345110E+01	0.219110E+01	0.482300E+00	0.271700E+00	0.482200E+00	0.901000E-01
13.400	-0.100700E+00	0.342580E+01	0.220400E+01	0.428100E+00	0.263100E+00	0.482100E+00	0.757000E-01
13.600	-0.875000E-01	0.340400E+01	0.221440E+01	0.367200E+00	0.254200E+00	0.479200E+00	0.612000E-01
13.800	-0.760000E-01	0.338550E+01	0.222200E+01	0.301300E+00	0.245200E+00	0.473900E+00	0.459000E-01
14.000	-0.658000E-01	0.336990E+01	0.222620E+01	0.232600E+00	0.236200E+00	0.466300E+00	0.287000E-01
14.200	-0.568000E-01	0.335700E+01	0.222690E+01	0.164400E+00	0.227000E+00	0.456500E+00	0.820000E-02
14.400	-0.490000E-01	0.334640E+01	0.222440E+01	0.100600E+00	0.218000E+00	0.444200E+00	-0.182000E-01
14.600	-0.421000E-01	0.333760E+01	0.221920E+01	0.457000E-01	0.209000E+00	0.427900E+00	-0.548000E-01
14.800	-0.361000E-01	0.333040E+01	0.221230E+01	-0.430000E-02	0.200200E+00	0.403200E+00	-0.107500E+00
15.000	-0.308000E-01	0.332440E+01	0.220480E+01	-0.194000E-01	0.191600E+00	0.361400E+00	-0.177300E+00
15.200	-0.261000E-01	0.331910E+01	0.219760E+01	-0.222000E-01	0.183400E+00	0.301200E+00	-0.243400E+00
15.400	-0.221000E-01	0.331450E+01	0.219110E+01	0.340000E-02	0.175400E+00	0.242900E+00	-0.281400E+00
15.600	-0.185000E-01	0.331010E+01	0.218500E+01	0.348000E-01	0.167800E+00	0.199700E+00	-0.294700E+00
15.800	-0.154000E-01	0.330580E+01	0.217870E+01	0.865000E-01	0.160600E+00	0.169800E+00	-0.295000E+00
16.000	-0.127000E-01	0.330140E+01	0.217180E+01	0.143800E+00	0.153700E+00	0.148500E+00	-0.289000E+00
16.200	-0.103000E-01	0.329680E+01	0.216470E+01	0.198700E+00	0.147200E+00	0.132600E+00	-0.279800E+00
16.400	-0.820000E-02	0.329190E+01	0.215820E+01	0.245600E+00	0.141100E+00	0.120200E+00	-0.269100E+00

16.600	-0.640000E-02	0.328680E+01	0.215330E+01	0.281900E+00	0.135300E+00	0.110200E+00	-0.257700E+00
16.800	-0.480000E-02	0.328130E+01	0.215040E+01	0.307200E+00	0.129800E+00	0.101800E+00	-0.245900E+00
17.000	-0.340000E-02	0.327540E+01	0.214960E+01	0.322800E+00	0.124700E+00	0.947000E-01	-0.234200E+00
17.200	-0.210000E-02	0.326930E+01	0.215090E+01	0.330400E+00	0.119800E+00	0.885000E-01	-0.222500E+00
17.400	-0.110000E-02	0.326290E+01	0.215400E+01	0.331700E+00	0.115300E+00	0.830000E-01	-0.211200E+00
17.600	-0.100000E-03	0.325630E+01	0.215840E+01	0.328400E+00	0.111000E+00	0.780000E-01	-0.200100E+00
17.800	0.700000E-03	0.324950E+01	0.216390E+01	0.321700E+00	0.106900E+00	0.736000E-01	-0.189300E+00
18.000	0.140000E-02	0.324260E+01	0.217020E+01	0.312700E+00	0.103100E+00	0.695000E-01	-0.178900E+00
18.200	0.210000E-02	0.323560E+01	0.217700E+01	0.302200E+00	0.995000E-01	0.658000E-01	-0.168900E+00
18.400	0.260000E-02	0.322850E+01	0.218430E+01	0.290700E+00	0.961000E-01	0.623000E-01	-0.159100E+00
18.600	0.310000E-02	0.322140E+01	0.219170E+01	0.278700E+00	0.929000E-01	0.592000E-01	-0.149700E+00
18.800	0.350000E-02	0.321440E+01	0.219930E+01	0.266500E+00	0.899000E-01	0.562000E-01	-0.140600E+00
19.000	0.390000E-02	0.320730E+01	0.220690E+01	0.254400E+00	0.870000E-01	0.535000E-01	-0.131800E+00
19.200	0.430000E-02	0.320030E+01	0.221440E+01	0.242400E+00	0.843000E-01	0.510000E-01	-0.123200E+00
19.400	0.450000E-02	0.319340E+01	0.222190E+01	0.230800E+00	0.818000E-01	0.486000E-01	-0.114800E+00
19.600	0.480000E-02	0.318660E+01	0.222930E+01	0.219600E+00	0.794000E-01	0.464000E-01	-0.106600E+00
19.800	0.500000E-02	0.317990E+01	0.223640E+01	0.208800E+00	0.772000E-01	0.444000E-01	-0.986000E-01
20.000	0.520000E-02	0.317330E+01	0.224350E+01	0.198500E+00	0.751000E-01	0.426000E-01	-0.907000E-01
20.200	0.540000E-02	0.316690E+01	0.225030E+01	0.188700E+00	0.731000E-01	0.409000E-01	-0.828000E-01
20.400	0.550000E-02	0.316060E+01	0.225700E+01	0.179400E+00	0.712000E-01	0.394000E-01	-0.747000E-01
20.600	0.560000E-02	0.315440E+01	0.226350E+01	0.170500E+00	0.695000E-01	0.380000E-01	-0.659000E-01
20.800	0.570000E-02	0.314840E+01	0.226980E+01	0.162000E+00	0.679000E-01	0.367000E-01	0.538000E-01
21.200	0.590000E-02	0.313670E+01	0.228180E+01	0.146400E+00	0.651000E-01	0.346000E-01	0.155400E+00
21.400	0.590000E-02	0.313120E+01	0.228750E+01	0.139200E+00	0.639000E-01	0.338000E-01	0.161400E+00
21.600	0.600000E-02	0.312570E+01	0.229310E+01	0.132300E+00	0.627000E-01	0.331000E-01	0.164000E+00
22.000	0.610000E-02	0.311530E+01	0.230360E+01	0.119400E+00	0.609000E-01	0.322000E-01	0.167500E+00
22.200	0.610000E-02	0.311020E+01	0.230870E+01	0.113300E+00	0.601000E-01	0.320000E-01	0.168900E+00
22.400	0.610000E-02	0.310540E+01	0.231350E+01	0.107500E+00	0.595000E-01	0.319000E-01	0.170100E+00
23.600	0.600000E-02	0.307890E+01	0.233970E+01	0.753000E-01	0.578000E-01	0.346000E-01	0.176200E+00
24.000	0.600000E-02	0.307100E+01	0.234730E+01	0.649000E-01	0.575000E-01	0.368000E-01	0.177700E+00
24.200	0.600000E-02	0.306730E+01	0.235090E+01	0.597000			

Table 2: $(2)^1\Sigma^+ - (2-6)^1\Sigma^+$ transitions

R	2-2	2-3	2-4	2-5	2-6
3.000	0.874900E+00	0.117050E+01	0.188730E+01	-0.962000E+00	0.286540E+01
3.200	0.901700E+00	0.127720E+01	0.190580E+01	-0.110500E+01	0.288580E+01
3.400	0.905300E+00	0.140070E+01	0.191170E+01	-0.128060E+01	0.288160E+01
3.800	0.880100E+00	0.171890E+01	0.186410E+01	-0.163420E+01	0.275370E+01
4.000	0.863200E+00	0.190550E+01	0.180860E+01	-0.175610E+01	0.265110E+01
4.200	0.847000E+00	0.209790E+01	0.173690E+01	-0.182920E+01	0.254350E+01
4.400	0.831700E+00	0.228480E+01	0.165580E+01	-0.186310E+01	0.244030E+01
4.600	0.816900E+00	0.245590E+01	0.157350E+01	-0.187320E+01	0.234880E+01
4.800	0.801500E+00	0.260360E+01	0.149800E+01	-0.187480E+01	0.227530E+01
5.200	0.766300E+00	0.281230E+01	0.139140E+01	-0.189720E+01	0.219150E+01
5.400	0.745600E+00	0.287120E+01	0.136700E+01	-0.193380E+01	0.218070E+01
5.600	0.722200E+00	0.290070E+01	0.136320E+01	-0.199430E+01	0.218580E+01
5.800	0.695700E+00	0.290250E+01	0.138000E+01	-0.208210E+01	0.220110E+01
6.000	0.665300E+00	0.287790E+01	0.141700E+01	-0.219920E+01	0.221870E+01
6.200	0.630000E+00	0.282850E+01	0.147450E+01	-0.234570E+01	0.223030E+01
6.400	0.588900E+00	0.275570E+01	0.155380E+01	-0.251870E+01	0.222720E+01
6.600	0.540500E+00	0.266050E+01	0.165790E+01	-0.271070E+01	0.220160E+01
6.800	0.483700E+00	0.254430E+01	0.179200E+01	-0.291000E+01	0.215050E+01
7.000	0.417000E+00	0.240830E+01	0.196510E+01	-0.309760E+01	0.207490E+01
7.200	0.339100E+00	0.225380E+01	0.219090E+01	-0.324940E+01	0.198110E+01
7.400	0.248400E+00	0.208290E+01	0.248880E+01	-0.333270E+01	0.187780E+01
7.600	0.143700E+00	0.189750E+01	0.288060E+01	-0.330360E+01	0.177410E+01
7.800	0.238000E-01	0.170020E+01	0.337270E+01	-0.310800E+01	0.167700E+01
8.000	-0.112100E+00	0.149420E+01	0.391860E+01	-0.271630E+01	0.159100E+01
8.200	-0.264600E+00	0.128270E+01	0.441380E+01	-0.219140E+01	0.151840E+01
8.400	-0.433600E+00	0.106930E+01	0.478390E+01	-0.166990E+01	0.145970E+01
8.600	-0.618700E+00	0.857500E+00	0.503530E+01	-0.124260E+01	0.141480E+01
8.800	-0.818900E+00	0.650600E+00	0.520660E+01	-0.923100E+00	0.138270E+01
9.000	-0.103240E+01	0.451500E+00	0.532830E+01	-0.691800E+00	0.136230E+01
9.200	-0.125710E+01	0.262500E+00	0.541850E+01	-0.525900E+00	0.135240E+01
9.400	-0.149030E+01	0.852000E-01	0.548750E+01	-0.408000E+00	0.135150E+01
9.600	-0.172890E+01	-0.795000E-01	0.554150E+01	-0.325600E+00	0.135750E+01
9.800	-0.196970E+01	-0.231600E+00	0.558480E+01	-0.269800E+00	0.136860E+01
10.000	-0.220950E+01	-0.371400E+00	0.562040E+01	-0.234300E+00	0.138240E+01
10.200	-0.244480E+01	-0.500100E+00	0.565050E+01	-0.214100E+00	0.139640E+01
10.400	-0.267280E+01	-0.618800E+00	0.567710E+01	-0.205300E+00	0.140790E+01
10.600	-0.289060E+01	-0.729300E+00	0.570160E+01	-0.204700E+00	0.141450E+01
10.800	-0.309580E+01	-0.833300E+00	0.572510E+01	-0.209400E+00	0.141350E+01
11.000	-0.328600E+01	-0.932500E+00	0.574840E+01	-0.217500E+00	0.140340E+01
11.200	-0.345970E+01	-0.102880E+01	0.577200E+01	-0.227100E+00	0.138300E+01
11.400	-0.361520E+01	-0.112380E+01	0.579630E+01	-0.237100E+00	0.135250E+01
11.600	-0.375120E+01	-0.121910E+01	0.582100E+01	-0.246600E+00	0.131280E+01
11.800	-0.386680E+01	-0.131610E+01	0.584590E+01	-0.255100E+00	0.126620E+01
12.000	-0.396110E+01	-0.141610E+01	0.587050E+01	-0.262400E+00	0.121580E+01
12.200	-0.403360E+01	-0.152020E+01	0.589380E+01	-0.268400E+00	0.116480E+01
12.400	-0.408370E+01	-0.162930E+01	0.591470E+01	-0.273000E+00	0.111600E+01
12.600	-0.411110E+01	-0.174420E+01	0.593200E+01	-0.276300E+00	0.107200E+01
12.800	-0.411570E+01	-0.186500E+01	0.594390E+01	-0.278600E+00	0.103430E+01
13.000	-0.409740E+01	-0.199170E+01	0.594900E+01	-0.279700E+00	0.100400E+01
13.200	-0.405670E+01	-0.212340E+01	0.594570E+01	-0.280000E+00	0.981800E+00
13.400	-0.399390E+01	-0.225810E+01	0.593250E+01	-0.279300E+00	0.968300E+00
13.600	-0.391000E+01	-0.239280E+01	0.590870E+01	-0.277700E+00	0.964200E+00
13.800	-0.380600E+01	-0.252310E+01	0.587410E+01	-0.275200E+00	0.970700E+00
14.000	-0.368360E+01	-0.264260E+01	0.582990E+01	-0.271700E+00	0.990000E+00
14.200	-0.354440E+01	-0.274330E+01	0.577880E+01	-0.267300E+00	0.102590E+01
14.400	-0.339080E+01	-0.281580E+01	0.572500E+01	-0.261800E+00	0.108560E+01
14.600	-0.322530E+01	-0.284970E+01	0.567360E+01	-0.255200E+00	0.118080E+01
14.800	-0.305060E+01	-0.283480E+01	0.563050E+01	-0.247400E+00	0.132670E+01
15.000	-0.286940E+01	-0.276220E+01	0.559990E+01	-0.238300E+00	0.152120E+01
15.200	-0.268480E+01	-0.262620E+01	0.558330E+01	-0.227900E+00	0.171090E+01
15.400	-0.249950E+01	-0.242740E+01	0.557740E+01	-0.216200E+00	0.185490E+01
15.600	-0.231600E+01	-0.217450E+01	0.557380E+01	-0.203200E+00	0.197360E+01
15.800	-0.213670E+01	-0.188600E+01	0.556110E+01	-0.188900E+00	0.208620E+01
16.000	-0.196360E+01	-0.158600E+01	0.552920E+01	-0.173300E+00	0.219760E+01
16.200	-0.179810E+01	-0.129850E+01	0.547270E+01	-0.156600E+00	0.230770E+01
16.400	-0.164160E+01	-0.104070E+01	0.539180E+01	-0.138700E+00	0.241560E+01
16.600	-0.149470E+01	-0.821000E+00	0.529080E+01	-0.119700E+00	0.251980E+01
16.800	-0.135800E+01	-0.640200E+00	0.517530E+01	-0.998000E-01	0.261980E+01
17.000	-0.123160E+01	-0.494600E+00	0.505060E+01	-0.791000E-01	0.271500E+01
17.200	-0.111540E+01	-0.379000E+00	0.492090E+01	-0.575000E-01	0.280510E+01
17.400	-0.100910E+01	-0.287800E+00	0.478930E+01	-0.353000E-01	0.288990E+01
17.600	-0.912400E+00	-0.216100E+00	0.465870E+01	-0.127000E-01	0.296910E+01
17.800	-0.824700E+00	-0.159700E+00	0.453040E+01	0.104000E-01	0.304280E+01
18.000	-0.745400E+00	-0.115300E+00	0.440580E+01	0.338000E-01	0.311120E+01
18.200	-0.673900E+00	-0.803000E-01	0.428560E+01	0.572000E-01	0.317440E+01
18.400	-0.609500E+00	-0.527000E-01	0.417060E+01	0.807000E-01	0.323250E+01
18.600	-0.551700E+00	-0.308000E-01	0.406120E+01	0.104000E+00	0.328580E+01

1					
2					
3	18.800	-0.499800E+00	-0.135000E-01	0.395770E+01	0.126900E+00 0.333430E+01
4	19.000	-0.453300E+00	0.200000E-03	0.386020E+01	0.149300E+00 0.337830E+01
5	19.200	-0.411600E+00	0.110000E-01	0.376880E+01	0.171000E+00 0.341800E+01
6	19.400	-0.374300E+00	0.195000E-01	0.368370E+01	0.191800E+00 0.345360E+01
7	19.600	-0.340800E+00	0.262000E-01	0.360480E+01	0.211300E+00 0.348520E+01
8	19.800	-0.310900E+00	0.315000E-01	0.353210E+01	0.229500E+00 0.351310E+01
9	20.000	-0.284100E+00	0.356000E-01	0.346550E+01	0.245900E+00 0.353720E+01
10	20.200	-0.260100E+00	0.387000E-01	0.340520E+01	0.260300E+00 0.355780E+01
11	20.400	-0.238500E+00	0.410000E-01	0.335090E+01	0.272400E+00 0.357500E+01
12	20.600	-0.219200E+00	0.427000E-01	0.330280E+01	0.281700E+00 0.358880E+01
13	20.800	-0.201800E+00	0.439000E-01	0.326070E+01	0.287700E+00 0.359940E+01
14	21.200	-0.172100E+00	0.451000E-01	0.319480E+01	0.288300E+00 0.361080E+01
15	21.400	-0.159500E+00	0.453000E-01	0.317100E+01	0.281700E+00 0.361160E+01
16	21.600	-0.148000E+00	0.453000E-01	0.315320E+01	0.269500E+00 0.360900E+01
17	22.000	-0.128300E+00	0.447000E-01	0.313610E+01	0.225300E+00 0.359350E+01
18	22.200	-0.119800E+00	0.442000E-01	0.313660E+01	0.191400E+00 0.358010E+01
19	22.400	-0.112000E+00	0.436000E-01	0.314320E+01	0.148200E+00 0.356270E+01
20	23.600	-0.778000E-01	0.390000E-01	0.328670E+01	0.384900E+00 0.334440E+01
21	24.000	-0.698000E-01	0.373000E-01	0.335030E+01	0.698500E+00 0.321050E+01
22	24.200	-0.662000E-01	0.365000E-01	0.337690E+01	0.882200E+00 0.312810E+01
23	24.400	-0.629000E-01	0.356000E-01	0.339710E+01	0.108140E+01 0.303430E+01
24	24.800	-0.570000E-01	0.339000E-01	0.341170E+01	0.150980E+01 0.281170E+01
25	25.000	-0.544000E-01	0.331000E-01	0.340480E+01	0.172830E+01 0.268370E+01
26	25.400	-0.496000E-01	0.315000E-01	0.336610E+01	0.214520E+01 0.240220E+01
27	25.600	-0.475000E-01	0.308000E-01	0.333750E+01	0.233410E+01 0.225360E+01
28	25.800	-0.455000E-01	0.300000E-01	0.330540E+01	0.250590E+01 0.210370E+01
29	26.000	-0.436000E-01	0.292000E-01	0.327130E+01	0.265920E+01 0.195560E+01
30	26.200	-0.418000E-01	0.285000E-01	0.323680E+01	0.279390E+01 0.181160E+01
31	26.400	-0.402000E-01	0.278000E-01	0.320290E+01	0.291080E+01 0.167380E+01
32	26.600	-0.386000E-01	0.271000E-01	0.317040E+01	0.301140E+01 0.154380E+01
33	26.800	-0.372000E-01	0.264000E-01	0.313980E+01	0.309740E+01 0.142230E+01
34	27.000	-0.358000E-01	0.257000E-01	0.311120E+01	0.317050E+01 0.130980E+01
35	27.200	-0.345000E-01	0.251000E-01	0.308470E+01	0.323260E+01 0.120630E+01
36	27.400	-0.333000E-01	0.245000E-01	0.306040E+01	0.328530E+01 0.111160E+01
37	27.600	-0.321000E-01	0.238000E-01	0.303820E+01	0.332990E+01 0.102520E+01
38	27.800	-0.311000E-01	0.232000E-01	0.301800E+01	0.336780E+01 0.946400E+00
39	28.000	-0.301000E-01	0.227000E-01	0.299950E+01	0.340010E+01 0.874700E+00
40	28.200	-0.291000E-01	0.221000E-01	0.298280E+01	0.342750E+01 0.809500E+00
41	28.400	-0.282000E-01	0.215000E-01	0.296760E+01	0.345100E+01 0.750200E+00
42	28.600	-0.273000E-01	0.210000E-01	0.295380E+01	0.347100E+01 0.696300E+00
43	28.800	-0.265000E-01	0.205000E-01	0.294130E+01	0.348820E+01 0.647200E+00
44	29.000	-0.257000E-01	0.200000E-01	0.292990E+01	0.350300E+01 0.602400E+00
45	29.200	-0.250000E-01	0.195000E-01	0.291950E+01	0.351580E+01 0.561500E+00
46	29.400	-0.243000E-01	0.190000E-01	0.291000E+01	0.352680E+01 0.524200E+00
47	29.600	-0.237000E-01	0.185000E-01	0.290140E+01	0.353630E+01 0.490000E+00
48	29.800	-0.230000E-01	0.181000E-01	0.289350E+01	0.354450E+01 0.458600E+00
49	30.000	-0.225000E-01	0.176000E-01	0.288630E+01	0.355170E+01 0.429800E+00
50	30.200	-0.219000E-01	0.172000E-01	0.287960E+01	0.355790E+01 0.403400E+00
51	30.400	-0.214000E-01	0.168000E-01	0.287350E+01	0.356330E+01 0.379000E+00
52	31.000	-0.199000E-01	0.156000E-01	0.285800E+01	0.357560E+01 0.316500E+00
53	31.400	-0.190000E-01	0.149000E-01	0.284960E+01	0.358140E+01 0.282200E+00
54	31.600	-0.186000E-01	0.145000E-01	0.284580E+01	0.358380E+01 0.266800E+00
55	31.800	-0.182000E-01	0.142000E-01	0.284230E+01	0.358590E+01 0.252600E+00
56	32.200	-0.175000E-01	0.135000E-01	0.283600E+01	0.358920E+01 0.227100E+00
57	32.400	-0.172000E-01	0.132000E-01	0.283300E+01	0.359050E+01 0.215400E+00
58	32.600	-0.168000E-01	0.129000E-01	0.283050E+01	0.359170E+01 0.204600E+00
59	32.800	-0.165000E-01	0.126000E-01	0.282800E+01	0.359270E+01 0.194100E+00
60	34.200	-0.145000E-01	0.107000E-01	0.281420E+01	0.359670E+01 0.138800E+00
	34.400	-0.142000E-01	0.105000E-01	0.281260E+01	0.359690E+01 0.132500E+00

Table 3: $(3)^1\Sigma^+ - (3-7)^1\Sigma^+$ transitions

R	3-3	3-4	3-5	3-6	3-7
3.000	-0.642300E+00	-0.101060E+01	0.217480E+01	-0.114510E+01	-0.200190E+01
3.200	-0.664200E+00	-0.103190E+01	0.225390E+01	-0.102450E+01	-0.215950E+01
3.400	-0.706100E+00	-0.105130E+01	0.234930E+01	-0.912000E+00	-0.220690E+01
3.800	-0.836000E+00	-0.108110E+01	0.260460E+01	-0.778800E+00	-0.218420E+01
4.000	-0.908600E+00	-0.109180E+01	0.276890E+01	-0.737400E+00	-0.216400E+01
4.200	-0.977200E+00	-0.110040E+01	0.295190E+01	-0.696200E+00	-0.215320E+01
4.400	-0.103760E+01	-0.110610E+01	0.314100E+01	-0.656700E+00	-0.215690E+01
4.600	-0.108720E+01	-0.110730E+01	0.332220E+01	-0.625400E+00	-0.217760E+01
4.800	-0.112430E+01	-0.110320E+01	0.348330E+01	-0.608800E+00	-0.221220E+01
5.200	-0.116270E+01	-0.107910E+01	0.371680E+01	-0.637900E+00	-0.230200E+01
5.400	-0.116830E+01	-0.105980E+01	0.378350E+01	-0.690900E+00	-0.234710E+01
5.600	-0.116830E+01	-0.103600E+01	0.381570E+01	-0.774500E+00	-0.238990E+01
5.800	-0.116460E+01	-0.100770E+01	0.381310E+01	-0.892300E+00	-0.243170E+01
6.000	-0.115850E+01	-0.974600E+00	0.377450E+01	-0.104670E+01	-0.247470E+01
6.200	-0.115060E+01	-0.936000E+00	0.369820E+01	-0.123760E+01	-0.252130E+01
6.400	-0.114080E+01	-0.891200E+00	0.358200E+01	-0.146090E+01	-0.257360E+01
6.600	-0.112850E+01	-0.838900E+00	0.342510E+01	-0.170730E+01	-0.263220E+01
6.800	-0.111260E+01	-0.777500E+00	0.323000E+01	-0.196400E+01	-0.269720E+01
7.000	-0.109150E+01	-0.704200E+00	0.300370E+01	-0.221530E+01	-0.276650E+01
7.200	-0.106340E+01	-0.615300E+00	0.275740E+01	-0.244770E+01	-0.283790E+01
7.400	-0.102620E+01	-0.506000E+00	0.250460E+01	-0.265200E+01	-0.290620E+01
7.600	-0.977900E+00	-0.371400E+00	0.225680E+01	-0.282580E+01	-0.296810E+01
7.800	-0.916300E+00	-0.213700E+00	0.201950E+01	-0.297160E+01	-0.302020E+01
8.000	-0.839800E+00	-0.552000E-01	0.179190E+01	-0.309480E+01	-0.306060E+01
8.200	-0.747100E+00	0.599000E-01	0.157610E+01	-0.320210E+01	-0.308960E+01
8.400	-0.637800E+00	0.102600E+00	0.138240E+01	-0.330010E+01	-0.310690E+01
8.600	-0.512000E+00	0.825000E-01	0.121740E+01	-0.339460E+01	-0.311340E+01
8.800	-0.370600E+00	0.270000E-01	0.107720E+01	-0.349050E+01	-0.310970E+01
9.000	-0.215600E+00	-0.410000E-01	0.954400E+00	-0.359160E+01	-0.309650E+01
9.200	-0.492000E-01	-0.106200E+00	0.842500E+00	-0.370060E+01	-0.307400E+01
9.400	0.125500E+00	-0.159900E+00	0.736700E+00	-0.381910E+01	-0.304200E+01
9.600	0.305300E+00	-0.196900E+00	0.634500E+00	-0.394730E+01	-0.299970E+01
9.800	0.486900E+00	-0.214800E+00	0.534700E+00	-0.408480E+01	-0.294650E+01
10.000	0.666700E+00	-0.212600E+00	0.437500E+00	-0.423030E+01	-0.288150E+01
10.200	0.841600E+00	-0.190600E+00	0.344000E+00	-0.438150E+01	-0.280390E+01
10.400	0.100830E+01	-0.149600E+00	0.256100E+00	-0.453590E+01	-0.271230E+01
10.600	0.116420E+01	-0.911000E-01	0.175600E+00	-0.469050E+01	-0.260550E+01
10.800	0.130660E+01	0.164000E-01	0.104500E+00	-0.484160E+01	-0.248120E+01
11.000	0.143340E+01	0.727000E-01	0.443000E-01	-0.498570E+01	-0.233820E+01
11.200	0.154240E+01	0.174900E+00	0.410000E-02	-0.511880E+01	-0.217530E+01
11.400	0.163190E+01	0.288900E+00	-0.405000E-01	-0.523730E+01	-0.199540E+01
11.600	0.170040E+01	0.414100E+00	-0.652000E-01	-0.533800E+01	-0.180470E+01
11.800	0.174630E+01	0.549700E+00	-0.789000E-01	-0.541880E+01	-0.161300E+01
12.000	0.176830E+01	0.695700E+00	-0.827000E-01	-0.547960E+01	-0.143230E+01
12.200	0.176520E+01	0.852100E+00	-0.781000E-01	-0.552080E+01	-0.127200E+01
12.400	0.173580E+01	0.101930E+01	-0.663000E-01	-0.554490E+01	-0.113980E+01
12.600	0.167890E+01	0.119780E+01	-0.489000E-01	-0.555450E+01	-0.103880E+01
12.800	0.159360E+01	0.138790E+01	-0.273000E-01	-0.555230E+01	-0.968800E+00
13.000	0.147890E+01	0.159010E+01	0.260000E-02	-0.554060E+01	-0.926700E+00
13.200	0.133450E+01	0.180390E+01	0.240000E-01	-0.552110E+01	-0.906900E+00
13.400	0.116040E+01	0.202850E+01	0.517000E-01	-0.549550E+01	-0.901900E+00
13.600	0.958100E+00	0.226180E+01	0.797000E-01	-0.546580E+01	-0.901600E+00
13.800	0.731000E+00	0.250030E+01	0.107500E+00	-0.543380E+01	-0.892000E+00
14.000	0.485400E+00	0.273910E+01	0.134400E+00	-0.540210E+01	-0.853500E+00
14.200	0.230900E+00	0.297140E+01	0.160000E+00	-0.537370E+01	-0.758000E+00
14.400	-0.179000E-01	0.318910E+01	0.183300E+00	-0.534840E+01	-0.559700E+00
14.600	-0.242700E+00	0.338250E+01	0.203500E+00	-0.531600E+01	-0.186700E+00
14.800	-0.422100E+00	0.354000E+01	0.219400E+00	-0.522820E+01	0.466800E+00
15.000	-0.534600E+00	0.364770E+01	0.229400E+00	-0.495440E+01	0.145630E+01
15.200	-0.564000E+00	0.368940E+01	0.232100E+00	-0.438540E+01	0.252820E+01
15.400	-0.505500E+00	0.364830E+01	0.226400E+00	-0.368660E+01	0.329310E+01
15.600	-0.372000E+00	0.351270E+01	0.211900E+00	-0.304440E+01	0.372400E+01
15.800	-0.193000E+00	0.328370E+01	0.189600E+00	-0.248690E+01	0.395170E+01
16.000	-0.600000E-02	0.298030E+01	0.161800E+00	-0.200010E+01	0.406250E+01
16.200	0.157700E+00	0.263530E+01	0.131400E+00	-0.157760E+01	0.410130E+01
16.400	0.281500E+00	0.228410E+01	0.101400E+00	-0.121910E+01	0.409340E+01
16.600	0.363600E+00	0.195310E+01	0.735000E-01	-0.922100E+00	0.405630E+01
16.800	0.410300E+00	0.165770E+01	0.489000E-01	-0.681200E+00	0.400150E+01
17.000	0.430600E+00	0.140300E+01	0.277000E-01	-0.488800E+00	0.393720E+01
17.200	0.432900E+00	0.118790E+01	0.100000E-01	-0.336400E+00	0.386880E+01
17.400	0.423700E+00	0.100850E+01	0.480000E-02	-0.216700E+00	0.379860E+01
17.600	0.407600E+00	0.859500E+00	-0.170000E-01	-0.122500E+00	0.373080E+01
17.800	0.387700E+00	0.736100E+00	-0.270000E-01	-0.487000E-01	0.366560E+01
18.000	0.366100E+00	0.633700E+00	-0.353000E-01	0.890000E-02	0.360380E+01
18.200	0.344100E+00	0.548700E+00	-0.419000E-01	0.538000E-01	0.354500E+01
18.400	0.322500E+00	0.477800E+00	-0.474000E-01	0.888000E-01	0.349080E+01
18.600	0.301600E+00	0.418600E+00	-0.517000E-01	0.115800E+00	0.344080E+01

1						
2						
3	18.800	0.281900E+00	0.368900E+00	-0.552000E-01	0.136500E+00	0.339470E+01
4	19.000	0.263400E+00	0.327100E+00	-0.579000E-01	0.152200E+00	0.335190E+01
5	19.200	0.246200E+00	0.291800E+00	-0.600000E-01	0.163900E+00	0.331320E+01
6	19.400	0.230300E+00	0.262000E+00	-0.616000E-01	0.172300E+00	0.327780E+01
7	19.600	0.215500E+00	0.236600E+00	-0.626000E-01	0.178200E+00	0.324530E+01
8	19.800	0.201900E+00	0.215000E+00	-0.633000E-01	0.182000E+00	0.321550E+01
9	20.000	0.189400E+00	0.196600E+00	-0.636000E-01	0.184100E+00	0.318770E+01
10	20.200	0.177800E+00	0.181000E+00	-0.636000E-01	0.184900E+00	0.316170E+01
11	20.400	0.167200E+00	0.167600E+00	-0.632000E-01	0.184600E+00	0.313690E+01
12	20.600	0.157400E+00	0.156200E+00	-0.626000E-01	0.183500E+00	0.311190E+01
13	20.800	0.148400E+00	0.146400E+00	-0.618000E-01	0.181700E+00	0.308240E+01
14	21.200	0.132500E+00	0.131100E+00	-0.594000E-01	0.176500E+00	0.335800E+00
15	21.400	0.125400E+00	0.125200E+00	-0.578000E-01	0.173400E+00	0.144600E+00
16	21.600	0.118900E+00	0.120200E+00	-0.560000E-01	0.170000E+00	0.915000E-01
17	22.000	0.107200E+00	0.112700E+00	-0.516000E-01	0.162600E+00	0.554000E-01
18	22.200	0.102000E+00	0.110000E+00	-0.490000E-01	0.158700E+00	0.478000E-01
19	22.400	0.972000E-01	0.107800E+00	-0.462000E-01	0.154800E+00	0.429000E-01
20	23.600	0.744000E-01	0.104100E+00	-0.212000E-01	0.129200E+00	0.332000E-01
21	24.000	0.687000E-01	0.104400E+00	-0.940000E-02	0.120100E+00	0.319000E-01
22	24.200	0.660000E-01	0.104600E+00	-0.280000E-02	0.115200E+00	0.315000E-01
23	24.400	0.635000E-01	0.104600E+00	0.400000E-02	0.110200E+00	0.310000E-01
24	24.800	0.590000E-01	0.103900E+00	0.182000E-01	0.996000E-01	0.302000E-01
25	25.000	0.569000E-01	0.103000E+00	0.251000E-01	0.941000E-01	0.298000E-01
26	25.400	0.530000E-01	0.100400E+00	0.377000E-01	0.827000E-01	0.291000E-01
27	25.600	0.512000E-01	0.986000E-01	0.430000E-01	0.772000E-01	0.287000E-01
28	25.800	0.495000E-01	0.967000E-01	0.478000E-01	0.716000E-01	0.283000E-01
29	26.000	0.479000E-01	0.947000E-01	0.518000E-01	0.661000E-01	0.280000E-01
30	26.200	0.464000E-01	0.926000E-01	0.551000E-01	0.610000E-01	0.276000E-01
31	26.400	0.450000E-01	0.905000E-01	0.577000E-01	0.562000E-01	0.271000E-01
32	26.600	0.436000E-01	0.884000E-01	0.598000E-01	0.517000E-01	0.266000E-01
33	26.800	0.423000E-01	0.863000E-01	0.613000E-01	0.476000E-01	0.261000E-01
34	27.000	0.410000E-01	0.843000E-01	0.624000E-01	0.439000E-01	0.255000E-01
35	27.200	0.398000E-01	0.823000E-01	0.631000E-01	0.404000E-01	0.250000E-01
36	27.400	0.386000E-01	0.804000E-01	0.636000E-01	0.372000E-01	0.245000E-01
37	27.600	0.375000E-01	0.785000E-01	0.637000E-01	0.343000E-01	0.240000E-01
38	27.800	0.365000E-01	0.767000E-01	0.637000E-01	0.317000E-01	0.235000E-01
39	28.000	0.355000E-01	0.750000E-01	0.635000E-01	0.293000E-01	0.230000E-01
40	28.200	0.345000E-01	0.733000E-01	0.631000E-01	0.271000E-01	0.225000E-01
41	28.400	0.336000E-01	0.717000E-01	0.626000E-01	0.252000E-01	0.220000E-01
42	28.600	0.327000E-01	0.701000E-01	0.621000E-01	0.234000E-01	0.215000E-01
43	28.800	0.318000E-01	0.686000E-01	0.614000E-01	0.218000E-01	0.210000E-01
44	29.000	0.310000E-01	0.672000E-01	0.608000E-01	0.203000E-01	0.205000E-01
45	29.200	0.302000E-01	0.658000E-01	0.600000E-01	0.190000E-01	0.200000E-01
46	29.400	0.295000E-01	0.644000E-01	0.593000E-01	0.177000E-01	0.195000E-01
47	29.600	0.288000E-01	0.631000E-01	0.585000E-01	0.166000E-01	0.191000E-01
48	29.800	0.281000E-01	0.619000E-01	0.577000E-01	0.155000E-01	0.186000E-01
49	30.000	0.274000E-01	0.606000E-01	0.569000E-01	0.145000E-01	0.182000E-01
50	30.200	0.267000E-01	0.594000E-01	0.560000E-01	0.136000E-01	0.177000E-01
51	30.400	0.261000E-01	0.583000E-01	0.552000E-01	0.128000E-01	0.173000E-01
52	31.000	0.244000E-01	0.550000E-01	0.527000E-01	0.106000E-01	0.160000E-01
53	31.200	0.238000E-01	0.540000E-01	0.519000E-01	0.100000E-01	0.156000E-01
54	31.400	0.233000E-01	0.529000E-01	0.511000E-01	0.950000E-02	0.152000E-01
55	31.600	0.228000E-01	0.520000E-01	0.503000E-01	0.900000E-02	0.148000E-01
56	31.800	0.223000E-01	0.510000E-01	0.495000E-01	0.860000E-02	0.144000E-01
57	32.000	0.218000E-01	0.501000E-01	0.488000E-01	0.810000E-02	0.140000E-01
58	32.200	0.214000E-01	0.492000E-01	0.480000E-01	0.750000E-02	0.138000E-01
59	32.400	0.209000E-01	0.483000E-01	0.472000E-01	0.730000E-02	0.133000E-01
60	32.600	0.205000E-01	0.474000E-01	0.465000E-01	0.690000E-02	0.130000E-01
	32.800	0.201000E-01	0.466000E-01	0.458000E-01	0.660000E-02	0.126000E-01
	33.000	0.197000E-01	0.458000E-01	0.450000E-01	0.620000E-02	0.124000E-01
	34.200	0.175000E-01	0.413000E-01	0.410000E-01	0.440000E-02	0.107000E-01
	34.400	0.172000E-01	0.406000E-01	0.403000E-01	0.410000E-02	0.105000E-01

Table 4: $(4)^1\Sigma^+ - (4-7)^1\Sigma^+$ transitions

R	4-4	4-5	4-6	4-7
3.000	-0.757200E+00	-0.547970E+01	0.114700E+01	-0.772600E+00
3.200	-0.820400E+00	-0.536920E+01	0.139060E+01	-0.928000E+00
3.400	-0.860000E+00	-0.522430E+01	0.170650E+01	-0.100910E+01
3.800	-0.923200E+00	-0.483740E+01	0.236540E+01	-0.108010E+01
4.000	-0.958200E+00	-0.462500E+01	0.262450E+01	-0.111000E+01
4.200	-0.991500E+00	-0.442090E+01	0.282420E+01	-0.114380E+01
4.400	-0.101690E+01	-0.423480E+01	0.297750E+01	-0.118150E+01
4.600	-0.103150E+01	-0.407260E+01	0.310080E+01	-0.122530E+01
4.800	-0.103680E+01	-0.393790E+01	0.320790E+01	-0.127560E+01
5.200	-0.103250E+01	-0.374930E+01	0.341420E+01	-0.138590E+01
5.400	-0.102770E+01	-0.368950E+01	0.352580E+01	-0.143820E+01
5.600	-0.102130E+01	-0.364500E+01	0.364930E+01	-0.148630E+01
5.800	-0.101190E+01	-0.360890E+01	0.378810E+01	-0.153110E+01
6.000	-0.996200E+00	-0.357320E+01	0.394570E+01	-0.157620E+01
6.200	-0.970500E+00	-0.353200E+01	0.412400E+01	-0.162560E+01
6.400	-0.929200E+00	-0.348110E+01	0.432340E+01	-0.168370E+01
6.600	-0.865000E+00	-0.342000E+01	0.454190E+01	-0.175390E+01
6.800	-0.768200E+00	-0.335610E+01	0.477480E+01	-0.183930E+01
7.000	-0.623500E+00	-0.330020E+01	0.501500E+01	-0.193990E+01
7.200	-0.408000E+00	-0.326660E+01	0.525400E+01	-0.205360E+01
7.400	-0.877000E-01	-0.326260E+01	0.548040E+01	-0.217200E+01
7.600	0.382300E+01	-0.327060E+01	0.567390E+01	-0.228030E+01
7.800	0.103040E+01	-0.321900E+01	0.579200E+01	-0.234930E+01
8.000	0.178650E+01	-0.298750E+01	0.577210E+01	-0.234320E+01
8.200	0.243760E+01	-0.253080E+01	0.558960E+01	-0.225630E+01
8.400	0.280960E+01	-0.197660E+01	0.530770E+01	-0.214130E+01
8.600	0.291660E+01	-0.147280E+01	0.500920E+01	-0.206050E+01
8.800	0.285470E+01	-0.106990E+01	0.473180E+01	-0.204320E+01
9.000	0.269940E+01	-0.758100E+00	0.447850E+01	-0.209270E+01
9.200	0.249230E+01	-0.514700E+00	0.424070E+01	-0.220280E+01
9.400	0.225420E+01	-0.320600E+00	0.400910E+01	-0.236440E+01
9.600	0.199540E+01	-0.163000E+00	0.377700E+01	-0.256850E+01
9.800	0.172120E+01	-0.339000E-01	0.353990E+01	-0.280770E+01
10.000	0.143500E+01	0.720000E-01	0.329540E+01	-0.307530E+01
10.200	0.113890E+01	0.158000E+00	0.304330E+01	-0.336590E+01
10.400	0.835300E+00	0.226900E+00	0.278430E+01	-0.367500E+01
10.600	0.525800E+00	0.281000E+00	0.252010E+01	-0.399830E+01
10.800	0.212600E+00	0.322500E+00	0.225300E+01	-0.432920E+01
11.000	-0.102900E+00	0.353900E+00	0.198580E+01	-0.465970E+01
11.200	-0.418800E+00	0.377200E+00	0.172220E+01	-0.497740E+01
11.400	-0.734100E+00	0.394800E+00	0.146600E+01	-0.526920E+01
11.600	-0.104790E+01	0.408300E+00	0.122270E+01	-0.552280E+01
11.800	-0.135930E+01	0.419200E+00	0.998200E+00	-0.573160E+01
12.000	-0.166790E+01	0.428800E+00	0.797800E+00	-0.589650E+01
12.200	-0.197270E+01	0.437400E+00	0.626200E+00	-0.602030E+01
12.400	-0.227360E+01	0.445900E+00	0.485000E+00	-0.611110E+01
12.600	-0.256970E+01	0.454700E+00	0.373900E+00	-0.617600E+01
12.800	-0.286030E+01	0.464100E+00	0.289900E+00	-0.622110E+01
13.000	-0.314450E+01	0.474200E+00	0.228300E+00	-0.625110E+01
13.200	-0.342130E+01	0.485200E+00	0.182300E+00	-0.626910E+01
13.400	-0.368980E+01	0.497100E+00	0.143300E+00	-0.627750E+01
13.600	-0.395000E+01	0.510300E+00	0.100500E+00	-0.627790E+01
13.800	-0.420340E+01	0.524800E+00	0.388000E-01	-0.627150E+01
14.000	-0.445360E+01	0.540800E+00	0.629000E-01	-0.625880E+01
14.200	-0.470770E+01	0.559000E+00	0.235000E+00	-0.623810E+01
14.400	-0.497670E+01	0.579400E+00	0.527800E+00	-0.620210E+01
14.600	-0.527560E+01	0.603000E+00	0.101980E+01	-0.612290E+01
14.800	-0.562200E+01	0.630300E+00	0.182410E+01	-0.591950E+01
15.000	-0.603370E+01	0.662100E+00	0.298350E+01	-0.542170E+01
15.200	-0.652340E+01	0.698800E+00	0.419200E+01	-0.455760E+01
15.400	-0.709270E+01	0.740400E+00	0.504160E+01	-0.362110E+01
15.600	-0.772540E+01	0.786600E+00	0.554090E+01	-0.284700E+01
15.800	-0.838940E+01	0.836300E+00	0.584120E+01	-0.223830E+01
16.000	-0.904540E+01	0.888300E+00	0.603110E+01	-0.174980E+01
16.200	-0.965970E+01	0.941400E+00	0.615110E+01	-0.135350E+01
16.400	-0.102159E+02	0.995900E+00	0.622610E+01	-0.103310E+01
16.600	-0.107107E+02	0.105160E+01	0.627080E+01	-0.777400E+00
16.800	-0.111503E+02	0.110900E+01	0.629680E+01	-0.576100E+00
17.000	-0.115438E+02	0.116850E+01	0.631220E+01	-0.419200E+00
17.200	-0.118998E+02	0.123060E+01	0.632280E+01	-0.297500E+00
17.400	-0.122254E+02	0.129570E+01	0.633210E+01	-0.203400E+00
17.600	-0.125257E+02	0.136380E+01	0.634280E+01	-0.131000E+00
17.800	-0.128047E+02	0.143530E+01	0.635630E+01	-0.752000E-01
18.000	-0.130650E+02	0.151030E+01	0.637370E+01	-0.324000E-01
18.200	-0.133085E+02	0.158920E+01	0.639550E+01	0.500000E-03
18.400	-0.135369E+02	0.167200E+01	0.642230E+01	0.257000E-01
18.600	-0.137510E+02	0.175900E+01	0.645440E+01	0.448000E-01

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3	18.800	-0.139517E+02	0.185040E+01	0.649210E+01 0.593000E-01
4	19.000	-0.141394E+02	0.194650E+01	0.653550E+01 0.702000E-01
5	19.200	-0.143143E+02	0.204750E+01	0.658500E+01 0.782000E-01
6	19.400	-0.144766E+02	0.215370E+01	0.664080E+01 0.841000E-01
7	19.600	-0.146260E+02	0.226540E+01	0.670300E+01 0.883000E-01
8	19.800	-0.147624E+02	0.238290E+01	0.677190E+01 0.913000E-01
9	20.000	-0.148851E+02	0.250660E+01	0.684780E+01 0.937000E-01
10	20.200	-0.149935E+02	0.263670E+01	0.693090E+01 0.958000E-01
11	20.400	-0.150865E+02	0.277370E+01	0.702150E+01 0.987000E-01
12	20.600	-0.151630E+02	0.291790E+01	0.712000E+01 0.104400E+00
13	20.800	-0.152215E+02	0.306970E+01	0.722670E+01 0.121200E+00
14	21.000	-0.152767E+02	0.339770E+01	0.746600E+01 0.486200E+00
15	21.200	-0.152685E+02	0.357440E+01	0.759910E+01 0.384300E+00
16	21.400	-0.152325E+02	0.376000E+01	0.774140E+01 0.273500E+00
17	21.600	-0.150619E+02	0.415750E+01	0.805370E+01 0.193000E-01
18	22.000	-0.149179E+02	0.436860E+01	0.822310E+01 0.127200E+00
19	22.200	-0.147277E+02	0.458650E+01	0.840020E+01 0.288900E+00
20	22.400	-0.122382E+02	0.583650E+01	0.948190E+01 0.165460E+01
21	23.600	-0.107704E+02	0.603840E+01	0.971700E+01 0.227390E+01
22	24.000	-0.992550E+01	0.604250E+01	0.977190E+01 0.260370E+01
23	24.200	-0.902830E+01	0.596540E+01	0.977270E+01 0.293990E+01
24	24.400	-0.718010E+01	0.554920E+01	0.958850E+01 0.360180E+01
25	24.800	-0.628690E+01	0.522120E+01	0.940160E+01 0.391220E+01
26	25.000	-0.468520E+01	0.440830E+01	0.886590E+01 0.446320E+01
27	25.400	-0.400490E+01	0.396790E+01	0.853740E+01 0.469810E+01
28	25.600	-0.341080E+01	0.353230E+01	0.818390E+01 0.490570E+01
29	25.800	-0.289970E+01	0.311710E+01	0.781670E+01 0.508760E+01
30	26.000	-0.246460E+01	0.273290E+01	0.744570E+01 0.524600E+01
31	26.200	-0.209690E+01	0.238520E+01	0.707890E+01 0.538360E+01
32	26.400	-0.178740E+01	0.207600E+01	0.672230E+01 0.550310E+01
33	26.600	-0.152730E+01	0.180450E+01	0.638020E+01 0.560730E+01
34	26.800	-0.130880E+01	0.156830E+01	0.605540E+01 0.569840E+01
35	27.000	-0.112500E+01	0.136400E+01	0.574920E+01 0.577820E+01
36	27.200	-0.970000E+00	0.118800E+01	0.546240E+01 0.584840E+01
37	27.400	-0.839000E+00	0.103670E+01	0.519470E+01 0.591050E+01
38	27.600	-0.728000E+00	0.906800E+00	0.494560E+01 0.596560E+01
39	27.800	-0.633600E+00	0.795200E+00	0.471420E+01 0.601470E+01
40	28.000	-0.553000E+00	0.699300E+00	0.449960E+01 0.605860E+01
41	28.200	-0.483900E+00	0.616600E+00	0.430070E+01 0.609800E+01
42	28.400	-0.424700E+00	0.545400E+00	0.411640E+01 0.613350E+01
43	28.600	-0.373600E+00	0.483800E+00	0.394560E+01 0.616560E+01
44	28.800	-0.329400E+00	0.430400E+00	0.378740E+01 0.619470E+01
45	29.000	-0.291100E+00	0.384000E+00	0.364080E+01 0.622100E+01
46	29.200	-0.257800E+00	0.343700E+00	0.350490E+01 0.624490E+01
47	29.400	-0.228800E+00	0.308400E+00	0.337900E+01 0.626670E+01
48	29.600	-0.203400E+00	0.277600E+00	0.326220E+01 0.628650E+01
49	29.800	-0.181200E+00	0.250500E+00	0.315380E+01 0.630450E+01
50	30.000	-0.161600E+00	0.226800E+00	0.305340E+01 0.632090E+01
51	30.200	-0.144400E+00	0.205800E+00	0.296040E+01 0.633580E+01
52	30.400	-0.103900E+00	0.156300E+00	0.272110E+01 0.637250E+01
53	31.000	-0.933000E-01	0.143400E+00	0.265000E+01 0.638240E+01
54	31.200	-0.839000E-01	0.131800E+00	0.259090E+01 0.639120E+01
55	31.400	-0.756000E-01	0.121500E+00	0.253370E+01 0.639900E+01
56	31.600	-0.681000E-01	0.112300E+00	0.248160E+01 0.640570E+01
57	31.800	-0.614000E-01	0.104000E+00	0.243420E+01 0.641160E+01
58	32.000	-0.554000E-01	0.965000E-01	0.239130E+01 0.641640E+01
59	32.200	-0.500000E-01	0.898000E-01	0.235310E+01 0.642040E+01
60	32.400	-0.452000E-01	0.837000E-01	0.231930E+01 0.642340E+01
	32.600	-0.408000E-01	0.782000E-01	0.228990E+01 0.642540E+01
	32.800	-0.369000E-01	0.733000E-01	0.226480E+01 0.642660E+01
	33.000	-0.200000E-01	0.515000E-01	0.221260E+01 0.640980E+01
	34.000	-0.180000E-01	0.489000E-01	0.222220E+01 0.640200E+01

Table 5: $(1)^3\Sigma^+ - (1-7)^3\Sigma^+$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	0.782000E-01	0.345180E+01	0.323000E-01	0.819000E-01	-0.459000E-01	0.486200E+00	0.172700E+00
3.200	0.624000E-01	0.346710E+01	0.888000E-01	0.155700E+00	-0.482000E-01	0.532900E+00	0.173000E+00
3.400	0.721000E-01	0.349270E+01	0.123800E+00	0.219000E+00	-0.299000E-01	0.570600E+00	0.177300E+00
3.800	0.140400E+00	0.359530E+01	-0.455000E-01	0.310200E+00	-0.967000E-01	0.602200E+00	0.193600E+00
4.000	0.185000E+00	0.366650E+01	-0.115100E+00	0.336200E+00	-0.299600E+00	0.531300E+00	0.202500E+00
4.200	0.229200E+00	0.373320E+01	-0.365500E+00	0.348900E+00	-0.541000E+00	0.248700E+00	0.211100E+00
4.400	0.269200E+00	0.378120E+01	-0.662600E+00	0.349600E+00	-0.558400E+00	0.994000E-01	0.219600E+00
4.600	0.302300E+00	0.381350E+01	-0.937000E+00	0.341400E+00	-0.527200E+00	0.361000E-01	0.228100E+00
4.800	0.327100E+00	0.384500E+01	-0.114510E+01	0.327700E+00	-0.484100E+00	-0.370000E-02	0.237100E+00
5.200	0.350600E+00	0.393480E+01	-0.136110E+01	0.296500E+00	-0.392900E+00	-0.155000E-01	0.254400E+00
5.400	0.350500E+00	0.399060E+01	-0.139700E+01	0.282700E+00	-0.351800E+00	-0.110000E-01	0.261400E+00
5.600	0.343900E+00	0.404870E+01	-0.140190E+01	0.271500E+00	-0.315700E+00	-0.100000E-02	0.266300E+00
5.800	0.332100E+00	0.410600E+01	-0.138430E+01	0.263100E+00	-0.285200E+00	0.121000E-01	0.268800E+00
6.000	0.316300E+00	0.416030E+01	-0.135020E+01	0.257600E+00	-0.260600E+00	0.269000E-01	0.269000E+00
6.200	0.297700E+00	0.421010E+01	-0.130410E+01	0.254700E+00	-0.241600E+00	0.426000E-01	0.267200E+00
6.400	0.277100E+00	0.425470E+01	-0.124900E+01	0.254400E+00	-0.228100E+00	0.591000E-01	0.263800E+00
6.600	0.255500E+00	0.429340E+01	-0.118740E+01	0.256300E+00	-0.220000E+00	0.767000E-01	0.259200E+00
6.800	0.233300E+00	0.432620E+01	-0.112100E+01	0.260200E+00	-0.217500E+00	0.961000E-01	0.253900E+00
7.000	0.211200E+00	0.435290E+01	-0.105130E+01	0.266000E+00	-0.220900E+00	0.118500E+00	0.248500E+00
7.200	0.189600E+00	0.437380E+01	-0.979200E+00	0.273700E+00	-0.231200E+00	0.145700E+00	0.244000E+00
7.400	0.168700E+00	0.438910E+01	-0.905500E+00	0.283000E+00	-0.250700E+00	0.179800E+00	0.244100E+00
7.600	0.148700E+00	0.439890E+01	-0.830600E+00	0.294200E+00	-0.283700E+00	0.222100E+00	0.279500E+00
7.800	0.129900E+00	0.440370E+01	-0.754800E+00	0.307500E+00	-0.337800E+00	0.266900E+00	0.501500E+00
8.000	0.112400E+00	0.440380E+01	-0.677800E+00	0.323300E+00	-0.421600E+00	0.290000E+00	0.433500E+00
8.200	0.961000E-01	0.439970E+01	-0.599500E+00	0.342100E+00	-0.525700E+00	0.257100E+00	0.360100E+00
8.400	0.812000E-01	0.439160E+01	-0.519000E+00	0.365100E+00	-0.611900E+00	0.184900E+00	0.294800E+00
8.600	0.677000E-01	0.438000E+01	-0.435300E+00	0.393900E+00	-0.664700E+00	0.120400E+00	0.246200E+00
8.800	0.555000E-01	0.436520E+01	-0.346900E+00	0.430700E+00	-0.693500E+00	0.766000E-01	0.212700E+00
9.000	0.445000E-01	0.434770E+01	-0.252100E+00	0.479300E+00	-0.703700E+00	-0.481000E-01	0.190000E+00
9.200	0.348000E-01	0.432760E+01	-0.148600E+00	0.544300E+00	-0.691500E+00	-0.293000E-01	0.174600E+00
9.400	0.262000E-01	0.430540E+01	-0.344000E-01	0.629300E+00	-0.645000E+00	-0.166000E-01	0.164200E+00
9.600	0.187000E-01	0.428130E+01	0.911000E-01	0.726500E+00	-0.550700E+00	-0.790000E-02	0.157100E+00
9.800	0.122000E-01	0.425550E+01	0.226200E+00	0.806900E+00	-0.415900E+00	-0.180000E-02	0.152200E+00
10.000	0.660000E-02	0.422840E+01	0.365400E+00	0.842000E+00	-0.279500E+00	-0.260000E-02	0.148800E+00
10.200	0.190000E-02	0.420000E+01	0.501300E+00	0.833700E+00	-0.171600E+00	-0.560000E-02	0.146500E+00
10.400	-0.210000E-02	0.417060E+01	0.626900E+00	0.798700E+00	-0.944000E-01	-0.780000E-02	0.144900E+00
10.600	-0.540000E-02	0.414030E+01	0.739300E+00	0.751500E+00	-0.396000E-01	-0.930000E-02	0.143800E+00
10.800	-0.810000E-02	0.410940E+01	0.838400E+00	0.700900E+00	0.000000E+00	-0.103000E-01	0.143200E+00
11.000	-0.103000E-01	0.407790E+01	0.926300E+00	0.651500E+00	0.298000E-01	-0.107000E-01	0.142900E+00
11.200	-0.119000E-01	0.404600E+01	0.100520E+01	0.605200E+00	0.530000E-01	-0.108000E-01	0.143100E+00
11.400	-0.132000E-01	0.401380E+01	0.107710E+01	0.562800E+00	0.720000E-01	-0.105000E-01	0.143600E+00
11.600	-0.140000E-01	0.398150E+01	0.114370E+01	0.524100E+00	0.982000E-01	-0.990000E-02	0.144600E+00
11.800	-0.145000E-01	0.394920E+01	0.120600E+01	0.488700E+00	0.102800E+00	-0.890000E-02	0.146000E+00
12.000	-0.147000E-01	0.391700E+01	0.126480E+01	0.456000E+00	0.116500E+00	-0.770000E-02	0.147900E+00
12.200	-0.147000E-01	0.388500E+01	0.132050E+01	0.425400E+00	0.130100E+00	-0.620000E-02	0.150100E+00
12.400	-0.145000E-01	0.385330E+01	0.137360E+01	0.396300E+00	0.143700E+00	-0.450000E-02	0.152700E+00
12.600	-0.141000E-01	0.382210E+01	0.142420E+01	0.368200E+00	0.157500E+00	-0.260000E-02	0.155700E+00
12.800	-0.135000E-01	0.379140E+01	0.147250E+01	0.340600E+00	0.171100E+00	-0.700000E-03	0.158900E+00
13.000	-0.128000E-01	0.376140E+01	0.151850E+01	0.313600E+00	0.183800E+00	0.130000E-02	0.162200E+00
13.200	-0.121000E-01	0.373200E+01	0.156240E+01	0.287300E+00	0.195000E+00	0.320000E-02	0.165700E+00
13.400	-0.112000E-01	0.370340E+01	0.160410E+01	0.262200E+00	0.203800E+00	0.500000E-02	0.169100E+00
13.600	-0.104000E-01	0.367560E+01	0.164390E+01	0.238800E+00	0.210100E+00	0.660000E-02	0.172500E+00
13.800	-0.950000E-02	0.364870E+01	0.168170E+01	0.217500E+00	0.213600E+00	0.770000E-02	0.175800E+00
14.000	-0.860000E-02	0.362260E+01	0.171750E+01	0.198500E+00	0.214700E+00	0.790000E-02	0.179000E+00
14.200	-0.760000E-02	0.359740E+01	0.175150E+01	0.181800E+00	0.213900E+00	0.510000E-02	0.182100E+00
14.400	-0.670000E-02	0.357320E+01	0.178380E+01	0.167100E+00	0.211500E+00	0.249000E-01	0.183200E+00
14.600	-0.590000E-02	0.354990E+01	0.181430E+01	0.154300E+00	0.208100E+00	0.183000E+00	0.404000E-01
14.800	-0.500000E-02	0.352740E+01	0.184320E+01	0.142900E+00	0.203800E+00	0.187200E+00	0.299000E-01
15.000	-0.420000E-02	0.350590E+01	0.187050E+01	0.132900E+00	0.198900E+00	0.189500E+00	0.282000E-01
15.200	-0.340000E-02	0.348520E+01	0.189640E+01	0.123900E+00	0.193700E+00	0.191300E+00	0.280000E-01
15.400	-0.260000E-02	0.346540E+01	0.192090E+01	0.115800E+00	0.188300E+00	0.192800E+00	0.282000E-01
15.600	-0.190000E-02	0.344640E+01	0.194400E+01	0.108500E+00	0.182700E+00	0.194100E+00	0.285000E-01
15.800	-0.120000E-02	0.342820E+01	0.196590E+01	0.101800E+00	0.177100E+00	0.195100E+00	0.288000E-01
16.000	-0.600000E-03	0.341080E+01	0.198660E+01	0.956000E-01	0.171500E+00	0.196000E+00	0.290000E-01
16.400	0.600000E-03	0.337820E+01	0.202480E+01	0.846000E-01	0.160500E+00	0.197300E+00	0.288000E-01
16.600	0.110000E-02	0.336290E+01	0.204240E+01	0.796000E-01	0.155200E+00	0.197700E+00	0.285000E-01
16.800	0.160000E-02	0.334830E+01	0.205910E+01	0.750000E-01	0.149900E+00	0.198000E+00	0.280000E-01
17.000	0.210000E-02	0.333430E+01	0.207490E+01	0.706000E-01	0.144800E+00	0.198300E+00	0.273000E-01
17.200	0.250000E-02	0.332090E+01	0.208990E+01	0.665000E-01	0.139800E+00	0.198500E+00	0.265000E-01
17.400	0.290000E-02	0.330800E+01	0.210420E+01	0.627000E-01	0.135000E+00	0.198500E+00	0.257000E-01
17.600	0.320000E-02	0.329570E+01	0.211780E+01	0.590000E-01	0.130300E+00	0.198600E+00	0.247000E-01
17.800	0.350000E-02	0.328390E+01	0.213070E+01	0.556000E-01	0.125700E+00	0.198500E+00	0.237000E-01
18.000	0.380000E-02	0.327250E+01	0.214300E+01	0.523000E-01	0.121300E+00	0.198500E+00	0.226000E-01
18.200	0.410000E-02	0.326160E+01	0.215470E+01	0.493000E-01	0.117000E+00	0.198400E+00	0.215000E-01
18.400	0.440000E-02	0.325120E+01	0.216590E+01	0.464000E-01	0.112900E+00	0.198200E+00	0.204000E-01
18.600	0.460000E-02	0.324110E+01	0.217650E+01	0.436000E-01	0.108900E+00	0.198100E+00	0.193000E-01
18.800	0.480000E-02	0.323150E+01	0.218670E+01	0.410000E-01	0.105000E+00	0.197900E+00	0.183000E-01

1								
2								
3	19.000	0.500000E-02	0.322220E+01	0.219650E+01	0.386000E-01	0.101300E+00	0.197700E+00	0.172000E-01
4	19.200	0.510000E-02	0.321320E+01	0.220580E+01	0.363000E-01	0.976000E-01	0.197400E+00	0.161000E-01
5	19.400	0.530000E-02	0.320460E+01	0.221470E+01	0.341000E-01	0.942000E-01	0.197200E+00	0.151000E-01
6	19.600	0.540000E-02	0.319640E+01	0.222330E+01	0.321000E-01	0.908000E-01	0.196900E+00	0.142000E-01
7	19.800	0.550000E-02	0.318840E+01	0.223140E+01	0.301000E-01	0.876000E-01	0.196700E+00	0.132000E-01
8	20.000	0.560000E-02	0.318070E+01	0.223930E+01	0.283000E-01	0.844000E-01	0.196400E+00	0.123000E-01
9	20.200	0.570000E-02	0.317330E+01	0.224680E+01	0.266000E-01	0.814000E-01	0.196200E+00	0.114000E-01
10	20.400	0.580000E-02	0.316610E+01	0.225410E+01	0.250000E-01	0.785000E-01	0.195900E+00	0.106000E-01
11	20.600	0.590000E-02	0.315920E+01	0.226100E+01	0.235000E-01	0.757000E-01	0.195600E+00	0.980000E-02
12	20.800	0.600000E-02	0.315260E+01	0.226770E+01	0.220000E-01	0.730000E-01	0.195300E+00	0.910000E-02
13	21.200	0.600000E-02	0.313990E+01	0.228030E+01	0.195000E-01	0.680000E-01	0.194800E+00	0.770000E-02
14	21.400	0.610000E-02	0.313390E+01	0.228630E+01	0.183000E-01	0.656000E-01	0.194600E+00	0.700000E-02
15	21.600	0.610000E-02	0.312810E+01	0.229200E+01	0.172000E-01	0.632000E-01	0.194300E+00	0.640000E-02
16	22.000	0.610000E-02	0.311710E+01	0.230290E+01	0.152000E-01	0.589000E-01	0.193800E+00	0.530000E-02
17	22.200	0.610000E-02	0.311180E+01	0.230810E+01	0.143000E-01	0.568000E-01	0.193600E+00	0.480000E-02
18	22.400	0.610000E-02	0.310670E+01	0.231300E+01	0.134000E-01	0.548000E-01	0.193300E+00	0.430000E-02
19	23.600	0.610000E-02	0.307940E+01	0.233950E+01	0.940000E-02	0.444000E-01	0.192100E+00	0.190000E-02
20	24.000	0.600000E-02	0.307140E+01	0.234720E+01	0.840000E-02	0.415000E-01	0.191800E+00	0.130000E-02
21	24.200	0.600000E-02	0.306760E+01	0.235080E+01	0.790000E-02	0.401000E-01	0.191700E+00	0.110000E-02
22	24.400	0.590000E-02	0.306390E+01	0.235440E+01	0.750000E-02	0.387000E-01	0.191600E+00	0.800000E-03
23	24.800	0.590000E-02	0.305690E+01	0.236110E+01	0.670000E-02	0.362000E-01	0.191300E+00	0.400000E-03
24	25.000	0.580000E-02	0.305350E+01	0.236430E+01	0.640000E-02	0.350000E-01	0.191200E+00	0.200000E-03
25	25.400	0.570000E-02	0.304700E+01	0.237050E+01	0.570000E-02	0.328000E-01	0.191100E+00	0.200000E-03
26	25.600	0.570000E-02	0.304390E+01	0.237340E+01	0.550000E-02	0.317000E-01	0.191000E+00	0.300000E-03
27	25.800	0.560000E-02	0.304090E+01	0.237620E+01	0.520000E-02	0.307000E-01	0.190900E+00	0.500000E-03
28	26.000	0.560000E-02	0.303800E+01	0.237900E+01	0.500000E-02	0.298000E-01	0.190900E+00	0.600000E-03
29	26.200	0.550000E-02	0.303520E+01	0.238170E+01	0.470000E-02	0.288000E-01	0.190800E+00	0.700000E-03
30	26.400	0.550000E-02	0.303240E+01	0.238430E+01	0.450000E-02	0.279000E-01	0.190800E+00	0.900000E-03
31	26.600	0.550000E-02	0.302980E+01	0.238680E+01	0.430000E-02	0.271000E-01	0.190800E+00	0.100000E-02
32	26.800	0.540000E-02	0.302720E+01	0.238920E+01	0.410000E-02	0.262000E-01	0.190800E+00	0.110000E-02
33	27.000	0.540000E-02	0.302460E+01	0.239160E+01	0.400000E-02	0.254000E-01	0.190800E+00	0.110000E-02
34	27.200	0.530000E-02	0.302220E+01	0.239390E+01	0.380000E-02	0.247000E-01	0.190800E+00	0.120000E-02
35	27.400	0.530000E-02	0.301980E+01	0.239620E+01	0.370000E-02	0.239000E-01	0.190800E+00	0.130000E-02
36	27.600	0.520000E-02	0.301750E+01	0.239830E+01	0.350000E-02	0.232000E-01	0.190800E+00	0.140000E-02
37	28.000	0.510000E-02	0.301300E+01	0.240250E+01	0.330000E-02	0.219000E-01	0.190800E+00	0.150000E-02
38	28.200	0.510000E-02	0.301090E+01	0.240450E+01	0.320000E-02	0.213000E-01	0.190800E+00	0.150000E-02
39	28.400	0.500000E-02	0.300880E+01	0.240640E+01	0.310000E-02	0.206000E-01	0.190900E+00	0.160000E-02
40	28.600	0.500000E-02	0.300680E+01	0.240830E+01	0.300000E-02	0.201000E-01	0.190900E+00	0.160000E-02
41	28.800	0.490000E-02	0.300480E+01	0.241020E+01	0.290000E-02	0.195000E-01	0.190900E+00	0.160000E-02
42	29.000	0.490000E-02	0.300290E+01	0.241200E+01	0.280000E-02	0.189000E-01	0.191000E+00	0.170000E-02
43	29.200	0.480000E-02	0.300100E+01	0.241370E+01	0.270000E-02	0.184000E-01	0.191000E+00	0.170000E-02
44	29.400	0.480000E-02	0.299920E+01	0.241540E+01	0.260000E-02	0.179000E-01	0.191100E+00	0.170000E-02
45	29.600	0.480000E-02	0.299740E+01	0.241700E+01	0.260000E-02	0.174000E-01	0.191100E+00	0.170000E-02
46	29.800	0.470000E-02	0.299560E+01	0.241860E+01	0.250000E-02	0.170000E-01	0.191200E+00	0.170000E-02
47	30.000	0.470000E-02	0.299350E+01	0.241980E+01	0.240000E-02	0.165000E-01	0.191200E+00	0.170000E-02
48	30.200	0.460000E-02	0.299230E+01	0.242170E+01	0.240000E-02	0.161000E-01	0.191300E+00	0.180000E-02
49	30.400	0.460000E-02	0.299000E+01	0.242270E+01	0.230000E-02	0.156000E-01	0.191300E+00	0.180000E-02
50	31.000	0.450000E-02	0.298610E+01	0.242740E+01	0.220000E-02	0.144000E-01	0.191500E+00	0.180000E-02
51	31.200	0.440000E-02	0.298470E+01	0.242880E+01	0.210000E-02	0.141000E-01	0.191600E+00	0.180000E-02
52	31.400	0.440000E-02	0.298320E+01	0.242980E+01	0.210000E-02	0.137000E-01	0.191700E+00	0.180000E-02
53	31.600	0.430000E-02	0.298190E+01	0.243140E+01	0.210000E-02	0.134000E-01	0.191700E+00	0.180000E-02
54	31.800	0.430000E-02	0.298050E+01	0.243260E+01	0.200000E-02	0.130000E-01	0.191800E+00	0.180000E-02
55	32.200	0.420000E-02	0.297790E+01	0.243490E+01	0.200000E-02	0.124000E-01	0.191900E+00	0.170000E-02
56	32.400	0.420000E-02	0.297660E+01	0.243560E+01	0.190000E-02	0.121000E-01	0.192000E+00	0.170000E-02
57	32.600	0.410000E-02	0.297530E+01	0.243720E+01	0.190000E-02	0.118000E-01	0.192000E+00	0.170000E-02
58	32.800	0.410000E-02	0.297390E+01	0.243820E+01	0.190000E-02	0.115000E-01	0.192100E+00	0.170000E-02
59	33.000	0.410000E-02	0.297270E+01	0.243920E+01	0.180000E-02	0.112000E-01	0.192100E+00	0.170000E-02
60	34.200	0.390000E-02	0.296650E+01	0.244540E+01	0.170000E-02	0.970000E-02	0.192400E+00	0.160000E-02
	34.400	0.380000E-02	0.296550E+01	0.244630E+01	0.170000E-02	0.950000E-02	0.192500E+00	0.160000E-02

Table 6: $(2)^3\Sigma^+ - (2-7)^3\Sigma^+$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.000	0.207700E+00	0.717200E+00	0.409510E+01	-0.461000E-01	-0.661100E+00	-0.128520E+01
3.200	0.423600E+00	0.830900E+00	0.411950E+01	-0.360000E-02	-0.730200E+00	-0.136240E+01
3.400	0.582500E+00	0.962200E+00	0.419690E+01	0.275000E-01	-0.772900E+00	-0.145330E+01
3.800	0.657100E+00	0.135720E+01	0.452640E+01	0.307000E-01	-0.727300E+00	-0.160920E+01
4.000	0.507400E+00	0.162590E+01	0.475140E+01	0.102200E+00	-0.615900E+00	-0.162470E+01
4.200	0.201200E+00	0.188790E+01	0.495530E+01	0.184600E+00	-0.470300E+00	-0.157050E+01
4.400	-0.212100E+00	0.206790E+01	0.507370E+01	-0.380000E-02	-0.479300E+00	-0.145280E+01
4.600	-0.622400E+00	0.213650E+01	0.508350E+01	-0.222800E+00	-0.551100E+00	-0.130520E+01
4.800	-0.947500E+00	0.212950E+01	0.501580E+01	-0.414200E+00	-0.634200E+00	-0.116030E+01
5.200	-0.131010E+01	0.206460E+01	0.481260E+01	-0.648400E+00	-0.794900E+00	-0.917100E+00
5.400	-0.138880E+01	0.204640E+01	0.472160E+01	-0.707100E+00	-0.865500E+00	-0.815200E+00
5.600	-0.142600E+01	0.204340E+01	0.464730E+01	-0.739800E+00	-0.925900E+00	-0.723500E+00
5.800	-0.143500E+01	0.205440E+01	0.458980E+01	-0.754000E+00	-0.973800E+00	-0.641700E+00
6.000	-0.142510E+01	0.207710E+01	0.454740E+01	-0.755500E+00	-0.100800E+01	-0.569800E+00
6.200	-0.140260E+01	0.210960E+01	0.451760E+01	-0.748300E+00	-0.102740E+01	-0.507400E+00
6.400	-0.137170E+01	0.215000E+01	0.449770E+01	-0.735900E+00	-0.103050E+01	-0.453400E+00
6.600	-0.133540E+01	0.219660E+01	0.448500E+01	-0.721500E+00	-0.101450E+01	-0.406600E+00
6.800	-0.129610E+01	0.224850E+01	0.447680E+01	-0.708300E+00	-0.974600E+00	-0.363800E+00
7.000	-0.125530E+01	0.230450E+01	0.447050E+01	-0.700500E+00	-0.903000E+00	-0.322300E+00
7.200	-0.121430E+01	0.236400E+01	0.446350E+01	-0.704500E+00	-0.786700E+00	-0.275500E+00
7.400	-0.117400E+01	0.242640E+01	0.445290E+01	-0.730900E+00	-0.606400E+00	-0.201600E+00
7.600	-0.113520E+01	0.249110E+01	0.443570E+01	-0.799300E+00	-0.337400E+00	0.959000E-01
7.800	-0.109840E+01	0.255740E+01	0.440820E+01	-0.946600E+00	0.298000E-01	0.298470E+01
8.000	-0.106380E+01	0.262440E+01	0.436610E+01	-0.123160E+01	0.420000E+00	0.298290E+01
8.200	-0.103180E+01	0.266800E+01	0.430340E+01	-0.167930E+01	0.651100E+00	0.284440E+01
8.400	-0.100230E+01	0.275470E+01	0.421210E+01	-0.218330E+01	0.673700E+00	0.265530E+01
8.600	-0.975500E+00	0.281290E+01	0.407960E+01	-0.264460E+01	0.628100E+00	0.247430E+01
8.800	-0.951200E+00	0.286080E+01	0.388610E+01	-0.307660E+01	0.593600E+00	0.231980E+01
9.000	-0.929300E+00	0.289160E+01	0.359810E+01	-0.352360E+01	0.578000E+00	0.219040E+01
9.200	-0.909600E+00	0.289550E+01	0.315840E+01	-0.401940E+01	0.573100E+00	0.208070E+01
9.400	-0.891900E+00	0.285940E+01	0.247910E+01	-0.456510E+01	0.570700E+00	0.198630E+01
9.600	-0.876100E+00	0.276890E+01	0.148350E+01	-0.508150E+01	0.565500E+00	0.190420E+01
9.800	-0.861700E+00	0.261330E+01	0.256200E+00	-0.540520E+01	0.554000E+00	0.183260E+01
10.000	-0.848600E+00	0.239390E+01	0.924100E+00	-0.546390E+01	0.534600E+00	0.177010E+01
10.200	-0.836500E+00	0.212870E+01	0.187050E+01	-0.517310E+01	0.470600E+00	0.166760E+01
10.600	-0.814000E+00	0.157680E+01	0.311420E+01	-0.497260E+01	0.426700E+00	0.162500E+01
10.800	-0.803200E+00	0.133490E+01	0.352660E+01	-0.476410E+01	0.375900E+00	0.158630E+01
11.000	-0.792200E+00	0.112770E+01	0.385780E+01	-0.454940E+01	0.319100E+00	0.155020E+01
11.200	-0.781100E+00	0.954800E+00	0.413440E+01	-0.432640E+01	0.257500E+00	0.151520E+01
11.400	-0.769500E+00	0.812400E+00	0.437430E+01	-0.409150E+01	0.191700E+00	0.148010E+01
11.600	-0.757300E+00	0.696000E+00	0.458900E+01	-0.384080E+01	0.122900E+00	0.144360E+01
11.800	-0.744500E+00	0.600800E+00	0.478600E+01	-0.356930E+01	0.522000E-01	0.140470E+01
12.000	-0.730900E+00	0.523100E+00	0.496960E+01	-0.327210E+01	-0.199000E-01	0.136250E+01
12.200	-0.716600E+00	0.459500E+00	0.514140E+01	-0.294380E+01	-0.919000E-01	0.131680E+01
12.400	-0.701500E+00	0.407200E+00	0.530020E+01	-0.258010E+01	-0.163000E+00	0.126730E+01
12.600	-0.685600E+00	0.364200E+00	0.544190E+01	-0.217920E+01	-0.232400E+00	0.121410E+01
12.800	-0.669100E+00	0.328500E+00	0.555960E+01	-0.174410E+01	-0.299500E+00	0.115760E+01
13.000	-0.651900E+00	0.298800E+00	0.564540E+01	-0.128440E+01	-0.363800E+00	0.109830E+01
13.200	-0.634200E+00	0.273900E+00	0.569300E+01	-0.816500E+00	-0.424500E+00	0.103670E+01
13.400	-0.616000E+00	0.252800E+00	0.570060E+01	-0.360000E+00	-0.481300E+00	0.973300E+00
13.600	-0.597300E+00	0.234900E+00	0.567190E+01	0.670000E-01	-0.534600E+00	0.908800E+00
13.800	-0.578400E+00	0.219600E+00	0.561420E+01	0.452200E+00	-0.584500E+00	0.843100E+00
14.000	-0.559300E+00	0.206300E+00	0.553660E+01	0.790100E+00	-0.632300E+00	0.774600E+00
14.200	-0.540100E+00	0.194600E+00	0.544710E+01	0.108140E+01	-0.685700E+00	0.697100E+00
14.400	-0.520800E+00	0.184300E+00	0.535190E+01	0.133000E+01	-0.812500E+00	0.505900E+00
14.600	-0.501700E+00	0.175100E+00	0.525520E+01	0.154150E+01	-0.698200E+00	0.627200E+00
14.800	-0.482600E+00	0.166800E+00	0.515980E+01	0.172170E+01	-0.602800E+00	0.697000E+00
15.000	-0.463700E+00	0.159300E+00	0.506700E+01	0.187600E+01	-0.540000E+00	0.726200E+00
15.200	-0.445200E+00	0.152400E+00	0.497770E+01	0.200910E+01	-0.486000E+00	0.744500E+00
15.400	-0.426900E+00	0.146100E+00	0.489210E+01	0.212470E+01	-0.436700E+00	0.755500E+00
15.600	-0.409000E+00	0.140200E+00	0.481020E+01	0.222600E+01	-0.391000E+00	0.761400E+00
15.800	-0.391600E+00	0.134700E+00	0.473200E+01	0.231570E+01	-0.348500E+00	0.762500E+00
16.000	-0.374600E+00	0.129600E+00	0.465710E+01	0.239570E+01	-0.308700E+00	0.759300E+00
16.200	-0.358100E+00	0.124800E+00	0.458550E+01	0.246770E+01	-0.271500E+00	0.752200E+00
16.400	-0.342100E+00	0.120300E+00	0.451670E+01	0.253300E+01	-0.236900E+00	0.741900E+00
16.600	-0.326700E+00	0.116000E+00	0.445060E+01	0.259280E+01	-0.204500E+00	0.728600E+00
16.800	-0.311700E+00	0.112000E+00	0.438710E+01	0.264790E+01	-0.174400E+00	0.713400E+00
17.000	-0.297400E+00	0.108100E+00	0.432580E+01	0.269890E+01	-0.146500E+00	0.696400E+00
17.200	-0.283600E+00	0.104500E+00	0.426670E+01	0.274650E+01	-0.120500E+00	0.678200E+00
17.400	-0.270300E+00	0.101000E+00	0.420960E+01	0.279110E+01	-0.965000E-01	0.659600E+00
17.600	-0.257600E+00	0.977000E-01	0.415440E+01	0.283310E+01	-0.743000E-01	0.640300E+00
17.800	-0.245500E+00	0.945000E-01	0.410090E+01	0.287280E+01	-0.539000E-01	0.620900E+00
18.000	-0.233900E+00	0.915000E-01	0.404920E+01	0.291040E+01	-0.353000E-01	0.601700E+00
18.200	-0.222800E+00	0.886000E-01	0.399910E+01	0.294610E+01	-0.181000E-01	0.582900E+00
18.400	-0.212200E+00	0.859000E-01	0.395060E+01	0.298010E+01	-0.260000E-02	0.564400E+00
18.600	-0.202200E+00	0.832000E-01	0.390360E+01	0.301250E+01	0.116000E-01	0.546500E+00
18.800	-0.192600E+00	0.807000E-01	0.385800E+01	0.304350E+01	0.243000E-01	0.529100E+00

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3	19.000	-0.183500E+00	0.782000E-01	0.381390E+01	0.307320E+01	0.358000E-01	0.512500E+00
4	19.200	-0.174900E+00	0.759000E-01	0.377120E+01	0.310150E+01	0.460000E-01	0.496400E+00
5	19.400	-0.166700E+00	0.737000E-01	0.372980E+01	0.312860E+01	0.551000E-01	0.481000E+00
6	19.600	-0.158900E+00	0.715000E-01	0.368980E+01	0.315450E+01	0.631000E-01	0.466200E+00
7	19.800	-0.151500E+00	0.694000E-01	0.365110E+01	0.317940E+01	0.701000E-01	0.452000E+00
8	20.000	-0.144600E+00	0.674000E-01	0.361370E+01	0.320310E+01	0.762000E-01	0.438400E+00
9	20.200	-0.137900E+00	0.655000E-01	0.357760E+01	0.322580E+01	0.814000E-01	0.425400E+00
10	20.400	-0.131700E+00	0.636000E-01	0.354280E+01	0.324750E+01	0.857000E-01	0.413000E+00
11	20.600	-0.125700E+00	0.618000E-01	0.350920E+01	0.326810E+01	0.894000E-01	0.401000E+00
12	20.800	-0.120100E+00	0.601000E-01	0.347680E+01	0.328790E+01	0.923000E-01	0.389600E+00
13	21.200	-0.109700E+00	0.567000E-01	0.341560E+01	0.332460E+01	0.963000E-01	0.368100E+00
14	21.400	-0.104900E+00	0.552000E-01	0.338680E+01	0.334160E+01	0.975000E-01	0.358000E+00
15	21.600	-0.100400E+00	0.536000E-01	0.335910E+01	0.335780E+01	0.982000E-01	0.348300E+00
16	22.000	-0.920000E-01	0.507000E-01	0.330700E+01	0.338780E+01	0.984000E-01	0.330000E+00
17	22.200	-0.881000E-01	0.493000E-01	0.328250E+01	0.340160E+01	0.979000E-01	0.321400E+00
18	22.400	-0.844000E-01	0.480000E-01	0.325910E+01	0.341470E+01	0.970000E-01	0.313100E+00
19	23.600	-0.657000E-01	0.407000E-01	0.313870E+01	0.347930E+01	0.873000E-01	0.269300E+00
20	24.000	-0.606000E-01	0.386000E-01	0.310550E+01	0.349620E+01	0.826000E-01	0.256700E+00
21	24.200	-0.582000E-01	0.375000E-01	0.309010E+01	0.350390E+01	0.802000E-01	0.250600E+00
22	24.400	-0.559000E-01	0.365000E-01	0.307530E+01	0.351120E+01	0.778000E-01	0.244800E+00
23	24.800	-0.517000E-01	0.346000E-01	0.304800E+01	0.352420E+01	0.728000E-01	0.233700E+00
24	25.000	-0.498000E-01	0.337000E-01	0.303530E+01	0.353020E+01	0.703000E-01	0.228500E+00
25	25.400	-0.461000E-01	0.320000E-01	0.301170E+01	0.354090E+01	0.652000E-01	0.218400E+00
26	25.600	-0.444000E-01	0.311000E-01	0.300080E+01	0.354570E+01	0.626000E-01	0.213600E+00
27	25.800	-0.428000E-01	0.303000E-01	0.299040E+01	0.355020E+01	0.601000E-01	0.208900E+00
28	26.000	-0.413000E-01	0.295000E-01	0.298050E+01	0.355440E+01	0.576000E-01	0.204400E+00
29	26.200	-0.398000E-01	0.287000E-01	0.297110E+01	0.355830E+01	0.552000E-01	0.200000E+00
30	26.400	-0.384000E-01	0.280000E-01	0.296220E+01	0.356190E+01	0.528000E-01	0.195700E+00
31	26.600	-0.371000E-01	0.273000E-01	0.295370E+01	0.356530E+01	0.505000E-01	0.191500E+00
32	26.800	-0.359000E-01	0.266000E-01	0.294560E+01	0.356840E+01	0.482000E-01	0.187500E+00
33	27.000	-0.347000E-01	0.259000E-01	0.293800E+01	0.357130E+01	0.459000E-01	0.183600E+00
34	27.200	-0.335000E-01	0.252000E-01	0.293070E+01	0.357390E+01	0.438000E-01	0.179800E+00
35	27.400	-0.324000E-01	0.246000E-01	0.292370E+01	0.357640E+01	0.416000E-01	0.176100E+00
36	27.600	-0.314000E-01	0.239000E-01	0.291720E+01	0.357870E+01	0.396000E-01	0.172500E+00
37	28.000	-0.295000E-01	0.227000E-01	0.290500E+01	0.358270E+01	0.357000E-01	0.165600E+00
38	28.200	-0.286000E-01	0.221000E-01	0.289930E+01	0.358450E+01	0.338000E-01	0.162300E+00
39	28.400	-0.278000E-01	0.216000E-01	0.289390E+01	0.358620E+01	0.320000E-01	0.159000E+00
40	28.600	-0.270000E-01	0.210000E-01	0.288880E+01	0.358770E+01	0.303000E-01	0.155900E+00
41	28.800	-0.262000E-01	0.205000E-01	0.288400E+01	0.358900E+01	0.286000E-01	0.152800E+00
42	29.000	-0.255000E-01	0.200000E-01	0.287930E+01	0.359030E+01	0.270000E-01	0.149800E+00
43	29.200	-0.248000E-01	0.195000E-01	0.287490E+01	0.359140E+01	0.255000E-01	0.146900E+00
44	29.400	-0.241000E-01	0.190000E-01	0.287080E+01	0.359250E+01	0.240000E-01	0.144100E+00
45	29.600	-0.235000E-01	0.185000E-01	0.286680E+01	0.359340E+01	0.226000E-01	0.141300E+00
46	29.800	-0.229000E-01	0.181000E-01	0.286300E+01	0.359430E+01	0.213000E-01	0.138600E+00
47	30.000	-0.223000E-01	0.176000E-01	0.285940E+01	0.359500E+01	0.200000E-01	0.136000E+00
48	30.200	-0.218000E-01	0.172000E-01	0.285590E+01	0.359570E+01	0.188000E-01	0.133400E+00
49	30.400	-0.213000E-01	0.168000E-01	0.285270E+01	0.359630E+01	0.177000E-01	0.130900E+00
50	31.000	-0.198000E-01	0.156000E-01	0.284370E+01	0.359780E+01	0.146000E-01	0.123800E+00
51	31.200	-0.194000E-01	0.152000E-01	0.284100E+01	0.359820E+01	0.136000E-01	0.121500E+00
52	31.400	-0.190000E-01	0.149000E-01	0.283840E+01	0.359850E+01	0.128000E-01	0.119300E+00
53	31.600	-0.186000E-01	0.145000E-01	0.283600E+01	0.359880E+01	0.119000E-01	0.117200E+00
54	31.800	-0.182000E-01	0.142000E-01	0.283360E+01	0.359900E+01	0.111000E-01	0.115100E+00
55	32.200	-0.175000E-01	0.135000E-01	0.282920E+01	0.359940E+01	0.970000E-02	0.111000E+00
56	32.400	-0.171000E-01	0.132000E-01	0.282710E+01	0.359940E+01	0.900000E-02	0.109000E+00
57	32.600	-0.168000E-01	0.129000E-01	0.282520E+01	0.359960E+01	0.840000E-02	0.107100E+00
58	32.800	-0.165000E-01	0.126000E-01	0.282330E+01	0.359970E+01	0.790000E-02	0.105300E+00
59	33.000	-0.162000E-01	0.123000E-01	0.282160E+01	0.359980E+01	0.730000E-02	0.103400E+00
60	34.200	-0.145000E-01	0.107000E-01	0.281230E+01	0.359960E+01	0.470000E-02	0.933000E-01
	34.400	-0.142000E-01	0.105000E-01	0.281100E+01	0.359950E+01	0.430000E-02	0.917000E-01

Table 7: $(3)^3\Sigma^+ - (3-7)^3\Sigma^+$ transitions

R	3-3	3-4	3-5	3-6	3-7
3.000	-0.985300E+00	0.350800E+01	-0.736200E+00	0.117150E+01	-0.142670E+01
3.200	-0.113830E+01	0.351550E+01	-0.747500E+00	0.130810E+01	-0.140610E+01
3.400	-0.125280E+01	0.346340E+01	-0.751400E+00	0.142640E+01	-0.141760E+01
3.800	-0.129240E+01	0.302880E+01	-0.899200E+00	0.160910E+01	-0.157550E+01
4.000	-0.114350E+01	0.257440E+01	-0.136640E+01	0.143710E+01	-0.173610E+01
4.200	-0.840600E+00	0.196160E+01	-0.203320E+01	0.612400E+00	-0.194330E+01
4.400	-0.426700E+00	0.127490E+01	-0.221940E+01	0.338800E+00	-0.216250E+01
4.600	-0.920000E-02	0.639600E+00	-0.231600E+01	-0.375900E+00	-0.235060E+01
4.800	0.328800E+00	0.133800E+00	-0.238950E+01	-0.521100E+00	-0.248370E+01
5.200	0.722200E+00	-0.488400E+00	-0.253780E+01	-0.929600E+00	-0.257530E+01
5.400	0.813200E+00	-0.657800E+00	-0.262640E+01	-0.114050E+01	-0.254770E+01
5.600	0.857900E+00	-0.765500E+00	-0.272680E+01	-0.132850E+01	-0.248640E+01
5.800	0.868900E+00	-0.828300E+00	-0.283800E+01	-0.147950E+01	-0.240470E+01
6.000	0.855200E+00	-0.858400E+00	-0.295930E+01	-0.158550E+01	-0.231400E+01
6.200	0.822800E+00	-0.864800E+00	-0.308970E+01	-0.164380E+01	-0.222290E+01
6.400	0.776200E+00	-0.854000E+00	-0.322820E+01	-0.165360E+01	-0.213620E+01
6.600	0.718800E+00	-0.831300E+00	-0.337420E+01	-0.161390E+01	-0.205570E+01
6.800	0.653200E+00	-0.800700E+00	-0.352590E+01	-0.152190E+01	-0.198250E+01
7.000	0.581500E+00	-0.765700E+00	-0.368160E+01	-0.137000E+01	-0.191520E+01
7.200	0.505400E+00	-0.729500E+00	-0.383750E+01	-0.114310E+01	-0.185080E+01
7.400	0.426700E+00	-0.694500E+00	-0.398560E+01	-0.812400E+00	-0.177940E+01
7.600	0.346900E+00	-0.663300E+00	-0.410640E+01	-0.326200E+00	-0.161170E+01
7.800	0.267500E+00	-0.638000E+00	-0.415040E+01	0.398400E+00	-0.103860E+01
8.000	0.190300E+00	-0.620800E+00	-0.399840E+01	0.142980E+01	-0.122830E+01
8.200	0.117100E+00	-0.614100E+00	-0.349670E+01	0.262690E+01	-0.113340E+01
8.400	0.506000E-01	-0.620200E+00	-0.277120E+01	0.358320E+01	-0.861600E+00
8.600	-0.640000E-02	-0.641900E+00	-0.214480E+01	0.415540E+01	-0.487600E+00
8.800	-0.500000E-01	-0.682500E+00	-0.170280E+01	0.447520E+01	-0.597000E-01
9.000	-0.752000E-01	-0.745700E+00	-0.139160E+01	0.464760E+01	0.396400E+00
9.200	-0.765000E-01	-0.834300E+00	-0.114920E+01	0.471730E+01	0.862400E+00
9.400	-0.485000E-01	-0.946200E+00	-0.923600E+00	0.469920E+01	0.131930E+01
9.600	0.122000E-01	-0.106080E+01	-0.676600E+00	0.459740E+01	0.174350E+01
9.800	0.102700E+00	-0.113370E+01	-0.411700E+00	0.441630E+01	0.210800E+01
10.000	0.212200E+00	-0.113540E+01	-0.179800E+00	0.417000E+01	0.238780E+01
10.200	0.323900E+00	-0.108160E+01	-0.150000E-01	0.388610E+01	0.257140E+01
10.400	0.422900E+00	-0.100180E+01	-0.893000E-01	0.359940E+01	0.266600E+01
10.600	0.502000E+00	-0.916600E+00	-0.152700E+00	0.333890E+01	0.269220E+01
10.800	0.561000E+00	-0.836600E+00	-0.192300E+00	0.312080E+01	0.267280E+01
11.000	0.603200E+00	-0.765400E+00	-0.219200E+00	0.294970E+01	0.262610E+01
11.200	0.632400E+00	-0.702600E+00	-0.240000E+00	0.282230E+01	0.256400E+01
11.400	0.651800E+00	-0.646400E+00	-0.258400E+00	0.273380E+01	0.249200E+01
11.600	0.663900E+00	-0.594300E+00	-0.276300E+00	0.267740E+01	0.241380E+01
11.800	0.670200E+00	-0.544200E+00	-0.294300E+00	0.264740E+01	0.233050E+01
12.000	0.672000E+00	-0.494300E+00	-0.312500E+00	0.263940E+01	0.224250E+01
12.200	0.670000E+00	-0.443200E+00	-0.330400E+00	0.264740E+01	0.215080E+01
12.400	0.664800E+00	-0.390100E+00	-0.347100E+00	0.266860E+01	0.205540E+01
12.600	0.656900E+00	-0.334400E+00	-0.361500E+00	0.269970E+01	0.195670E+01
12.800	0.646700E+00	-0.276500E+00	-0.372100E+00	0.273840E+01	0.185540E+01
13.000	0.634600E+00	-0.217300E+00	-0.377400E+00	0.278270E+01	0.175180E+01
13.200	0.620800E+00	-0.158600E+00	-0.376400E+00	0.283050E+01	0.164700E+01
13.400	0.605600E+00	-0.102300E+00	-0.368700E+00	0.288080E+01	0.154080E+01
13.600	0.589300E+00	-0.502000E-01	-0.354700E+00	0.293310E+01	0.143330E+01
13.800	0.572100E+00	0.350000E-02	-0.335600E+00	0.298740E+01	0.132220E+01
14.000	0.554100E+00	0.374000E-01	-0.312700E+00	0.304510E+01	0.119910E+01
14.200	0.535700E+00	0.726000E-01	-0.287500E+00	0.311720E+01	0.103260E+01
14.400	0.517000E+00	0.102600E+00	-0.261000E+00	0.327230E+01	0.393400E+00
14.600	0.498100E+00	0.127900E+00	-0.234100E+00	0.140320E+01	0.299850E+01
14.800	0.479100E+00	0.149100E+00	-0.207400E+00	0.113080E+01	0.312840E+01
15.000	0.460300E+00	0.166900E+00	-0.181500E+00	0.100970E+01	0.318620E+01
15.200	0.441600E+00	0.181600E+00	-0.156600E+00	0.921900E+00	0.322880E+01
15.400	0.423200E+00	0.193700E+00	-0.132900E+00	0.848500E+00	0.326150E+01
15.600	0.405200E+00	0.203600E+00	-0.110600E+00	0.784700E+00	0.328900E+01
15.800	0.387700E+00	0.211600E+00	-0.896000E-01	0.727700E+00	0.331000E+01
16.000	0.370600E+00	0.217800E+00	-0.701000E-01	0.676000E+00	0.332460E+01
16.200	0.354100E+00	0.222600E+00	-0.519000E-01	0.629000E+00	0.333280E+01
16.400	0.338200E+00	0.226100E+00	-0.352000E-01	0.586100E+00	0.333500E+01
16.600	0.322800E+00	0.228500E+00	-0.197000E-01	0.546600E+00	0.333120E+01
16.800	0.308000E+00	0.230000E+00	-0.550000E-02	0.510400E+00	0.332280E+01
17.000	0.293800E+00	0.230500E+00	0.750000E-02	0.477000E+00	0.330970E+01
17.200	0.280200E+00	0.230300E+00	0.193000E-01	0.446300E+00	0.329300E+01
17.400	0.267300E+00	0.229500E+00	0.301000E-01	0.418000E+00	0.327480E+01
17.600	0.254900E+00	0.228100E+00	0.398000E-01	0.391700E+00	0.325360E+01
17.800	0.243100E+00	0.226200E+00	0.486000E-01	0.367400E+00	0.323080E+01
18.000	0.231800E+00	0.223800E+00	0.565000E-01	0.344800E+00	0.320720E+01
18.200	0.221100E+00	0.221100E+00	0.636000E-01	0.324000E+00	0.318370E+01
18.400	0.210900E+00	0.218100E+00	0.699000E-01	0.304600E+00	0.315970E+01
18.600	0.201200E+00	0.214900E+00	0.756000E-01	0.286500E+00	0.313590E+01

1						
2						
3	18.800	0.192100E+00	0.211400E+00	0.805000E-01	0.269800E+00	0.311260E+01
4	19.000	0.183300E+00	0.207700E+00	0.849000E-01	0.254200E+00	0.309010E+01
5	19.200	0.175100E+00	0.203900E+00	0.887000E-01	0.239600E+00	0.306800E+01
6	19.400	0.167200E+00	0.200000E+00	0.920000E-01	0.226100E+00	0.304680E+01
7	19.600	0.159800E+00	0.196000E+00	0.948000E-01	0.213500E+00	0.302640E+01
8	19.800	0.152800E+00	0.192000E+00	0.972000E-01	0.201700E+00	0.300680E+01
9	20.000	0.146100E+00	0.187900E+00	0.992000E-01	0.190700E+00	0.298800E+01
10	20.200	0.139800E+00	0.183800E+00	0.100900E+00	0.180400E+00	0.297000E+01
11	20.400	0.133800E+00	0.179700E+00	0.102200E+00	0.170800E+00	0.295270E+01
12	20.600	0.128100E+00	0.175600E+00	0.103200E+00	0.161700E+00	0.293630E+01
13	20.800	0.122700E+00	0.171500E+00	0.103900E+00	0.153300E+00	0.292060E+01
14	21.000	0.112700E+00	0.163500E+00	0.104600E+00	0.138000E+00	0.289140E+01
15	21.200	0.108100E+00	0.159600E+00	0.104700E+00	0.131100E+00	0.287770E+01
16	21.400	0.103800E+00	0.155800E+00	0.104500E+00	0.124600E+00	0.286470E+01
17	21.600	0.103800E+00	0.155800E+00	0.104500E+00	0.124600E+00	0.286470E+01
18	22.000	0.957000E-01	0.148300E+00	0.103800E+00	0.112700E+00	0.284050E+01
19	22.200	0.920000E-01	0.144700E+00	0.103200E+00	0.107300E+00	0.282920E+01
20	22.400	0.884000E-01	0.141100E+00	0.102500E+00	0.102200E+00	0.281840E+01
21	23.600	0.706000E-01	0.121700E+00	0.966000E-01	0.772000E-01	0.276330E+01
22	24.000	0.657000E-01	0.115900E+00	0.942000E-01	0.706000E-01	0.274790E+01
23	24.200	0.635000E-01	0.113100E+00	0.929000E-01	0.675000E-01	0.274070E+01
24	24.400	0.613000E-01	0.110400E+00	0.916000E-01	0.647000E-01	0.273390E+01
25	24.800	0.573000E-01	0.105300E+00	0.890000E-01	0.594000E-01	0.272110E+01
26	25.000	0.554000E-01	0.102900E+00	0.877000E-01	0.569000E-01	0.271510E+01
27	25.400	0.519000E-01	0.982000E-01	0.850000E-01	0.525000E-01	0.270380E+01
28	25.600	0.503000E-01	0.959000E-01	0.837000E-01	0.504000E-01	0.269860E+01
29	25.800	0.487000E-01	0.938000E-01	0.824000E-01	0.484000E-01	0.269350E+01
30	26.000	0.472000E-01	0.916000E-01	0.811000E-01	0.465000E-01	0.268860E+01
31	26.200	0.458000E-01	0.896000E-01	0.798000E-01	0.447000E-01	0.268390E+01
32	26.400	0.444000E-01	0.876000E-01	0.785000E-01	0.430000E-01	0.267940E+01
33	26.600	0.431000E-01	0.857000E-01	0.772000E-01	0.413000E-01	0.267510E+01
34	26.800	0.418000E-01	0.838000E-01	0.759000E-01	0.398000E-01	0.267090E+01
35	27.000	0.406000E-01	0.820000E-01	0.747000E-01	0.383000E-01	0.266690E+01
36	27.200	0.395000E-01	0.803000E-01	0.734000E-01	0.368000E-01	0.266300E+01
37	27.400	0.384000E-01	0.786000E-01	0.722000E-01	0.355000E-01	0.265930E+01
38	27.600	0.373000E-01	0.769000E-01	0.710000E-01	0.342000E-01	0.265570E+01
39	27.800	0.363000E-01	0.753000E-01	0.698000E-01	0.000000E+00	0.329000E-01
40	28.000	0.353000E-01	0.737000E-01	0.686000E-01	0.318000E-01	0.264890E+01
41	28.200	0.344000E-01	0.722000E-01	0.674000E-01	0.306000E-01	0.264570E+01
42	28.400	0.335000E-01	0.707000E-01	0.663000E-01	0.296000E-01	0.264260E+01
43	28.600	0.326000E-01	0.693000E-01	0.652000E-01	0.285000E-01	0.263960E+01
44	28.800	0.317000E-01	0.679000E-01	0.641000E-01	0.275000E-01	0.263670E+01
45	29.000	0.309000E-01	0.665000E-01	0.630000E-01	0.266000E-01	0.263390E+01
46	29.200	0.302000E-01	0.652000E-01	0.619000E-01	0.257000E-01	0.263120E+01
47	29.400	0.294000E-01	0.639000E-01	0.609000E-01	0.248000E-01	0.262860E+01
48	29.600	0.287000E-01	0.627000E-01	0.599000E-01	0.240000E-01	0.262600E+01
49	29.800	0.280000E-01	0.615000E-01	0.589000E-01	0.232000E-01	0.262360E+01
50	30.000	0.273000E-01	0.603000E-01	0.579000E-01	0.224000E-01	0.262120E+01
51	30.200	0.267000E-01	0.591000E-01	0.569000E-01	0.217000E-01	0.261890E+01
52	30.400	0.261000E-01	0.580000E-01	0.560000E-01	0.210000E-01	0.261670E+01
53	31.000	0.243000E-01	0.548000E-01	0.532000E-01	0.190000E-01	0.261040E+01
54	31.200	0.238000E-01	0.538000E-01	0.523000E-01	0.184000E-01	0.260840E+01
55	31.400	0.233000E-01	0.528000E-01	0.515000E-01	0.178000E-01	0.260610E+01
56	31.600	0.228000E-01	0.519000E-01	0.506000E-01	0.173000E-01	0.260470E+01
57	31.800	0.223000E-01	0.509000E-01	0.498000E-01	0.168000E-01	0.260290E+01
58	32.200	0.214000E-01	0.491000E-01	0.482000E-01	0.157000E-01	0.259940E+01
59	32.400	0.209000E-01	0.482000E-01	0.474000E-01	0.153000E-01	0.259710E+01
60	32.600	0.205000E-01	0.474000E-01	0.466000E-01	0.148000E-01	0.259610E+01
	32.800	0.201000E-01	0.465000E-01	0.459000E-01	0.143000E-01	0.259390E+01
	33.000	0.197000E-01	0.457000E-01	0.451000E-01	0.139000E-01	0.259310E+01
	34.200	0.175000E-01	0.412000E-01	0.410000E-01	0.116000E-01	0.258480E+01
	34.400	0.172000E-01	0.405000E-01	0.404000E-01	0.113000E-01	0.258350E+01

Table 8: $(4)^3\Sigma^+ - (4-7)^3\Sigma^+$ transitions

R	4-4	4-5	4-6	4-7
3.000	0.134410E+01	0.900520E+01	-0.118010E+01	0.349300E+00
3.200	0.116590E+01	0.903320E+01	-0.136640E+01	0.185800E+00
3.400	0.104530E+01	0.904060E+01	-0.150900E+01	0.493000E-01
3.800	0.104980E+01	0.913960E+01	-0.103250E+01	0.114700E+00
4.000	0.118950E+01	0.910380E+01	-0.139570E+01	0.126100E+00
4.200	0.140810E+01	0.710410E+01	-0.587620E+01	0.756000E-01
4.400	0.167930E+01	0.598200E+01	-0.702020E+01	-0.467000E-01
4.600	0.197150E+01	0.571640E+01	-0.723240E+01	-0.245500E+00
4.800	0.225810E+01	0.568780E+01	-0.723360E+01	-0.515500E+00
5.200	0.275460E+01	0.579650E+01	-0.704560E+01	-0.119660E+01
5.400	0.295370E+01	0.586160E+01	-0.691070E+01	-0.155040E+01
5.600	0.312020E+01	0.591680E+01	-0.677030E+01	-0.187170E+01
5.800	0.325660E+01	0.595470E+01	-0.664050E+01	-0.213900E+01
6.000	0.336650E+01	0.597060E+01	-0.653500E+01	-0.234300E+01
6.200	0.345300E+01	0.595920E+01	-0.646300E+01	-0.248470E+01
6.400	0.351950E+01	0.591500E+01	-0.642940E+01	-0.257090E+01
6.600	0.356870E+01	0.583230E+01	-0.643690E+01	-0.261080E+01
6.800	0.360310E+01	0.570140E+01	-0.648310E+01	-0.261290E+01
7.000	0.362460E+01	0.551120E+01	-0.656710E+01	-0.258630E+01
7.200	0.363490E+01	0.524420E+01	-0.668400E+01	-0.254100E+01
7.400	0.363470E+01	0.487200E+01	-0.682430E+01	-0.249800E+01
7.600	0.362430E+01	0.434590E+01	-0.696220E+01	-0.259730E+01
7.800	0.360330E+01	0.358070E+01	-0.704150E+01	-0.305310E+01
8.000	0.357050E+01	0.247150E+01	-0.696560E+01	-0.385650E+01
8.200	0.352320E+01	0.110470E+01	-0.660400E+01	-0.477330E+01
8.400	0.345700E+01	0.298000E-01	-0.592850E+01	-0.551210E+01
8.600	0.336420E+01	-0.692700E+00	-0.512430E+01	-0.602980E+01
8.800	0.323090E+01	-0.106850E+01	-0.430680E+01	-0.636060E+01
9.000	0.303220E+01	-0.133720E+01	-0.347510E+01	-0.652150E+01
9.200	0.272310E+01	-0.158460E+01	-0.259210E+01	-0.648660E+01
9.400	0.223410E+01	-0.181820E+01	-0.161200E+01	-0.617320E+01
9.600	0.151550E+01	-0.194770E+01	-0.517300E+00	-0.545960E+01
9.800	0.678000E+00	-0.183300E+01	0.595000E+00	-0.433980E+01
10.000	-0.331000E-01	-0.150110E+01	0.154090E+01	-0.306920E+01
10.200	-0.521400E+00	-0.112150E+01	0.223690E+01	-0.191240E+01
10.400	-0.838700E+00	-0.789000E+00	0.271240E+01	-0.947900E+00
10.600	-0.104780E+01	-0.517100E+00	0.302100E+01	-0.155600E+00
10.800	-0.118800E+01	-0.294100E+00	0.320920E+01	0.503100E+00
11.000	-0.128280E+01	-0.106500E+00	0.331110E+01	0.106320E+01
11.200	-0.134550E+01	0.562000E-01	0.335250E+01	0.155400E+01
11.400	-0.138470E+01	0.201500E+00	0.334830E+01	0.199980E+01
11.600	-0.140500E+01	0.335000E+00	0.331040E+01	0.241960E+01
11.800	-0.140870E+01	0.460700E+00	0.324600E+01	0.282990E+01
12.000	-0.139690E+01	0.581700E+00	0.315780E+01	0.324350E+01
12.200	-0.136870E+01	0.699800E+00	0.304900E+01	0.366990E+01
12.400	-0.132340E+01	0.815000E+00	0.291940E+01	0.411400E+01
12.600	-0.126020E+01	0.925300E+00	0.276920E+01	0.457480E+01
12.800	-0.117980E+01	0.102640E+01	0.259950E+01	0.504390E+01
13.000	-0.108600E+01	0.111230E+01	0.241350E+01	0.550760E+01
13.200	-0.985500E+00	0.117750E+01	0.221890E+01	0.594370E+01
13.400	-0.887500E+00	0.121890E+01	0.202530E+01	0.633560E+01
13.600	-0.800600E+00	0.123770E+01	0.184450E+01	0.667150E+01
13.800	-0.730700E+00	0.123790E+01	0.169110E+01	0.694720E+01
14.000	-0.679800E+00	0.122490E+01	0.158940E+01	0.716260E+01
14.200	-0.647100E+00	0.120410E+01	0.162070E+01	0.730980E+01
14.400	-0.629800E+00	0.117930E+01	0.274000E+01	0.709600E+01
14.600	-0.624600E+00	0.115320E+01	0.770090E+01	0.418000E-01
14.800	-0.628400E+00	0.112740E+01	0.776320E+01	0.432500E+00
15.000	-0.638300E+00	0.110260E+01	0.781990E+01	0.461300E+00
15.200	-0.651900E+00	0.107930E+01	0.786720E+01	0.428900E+00
15.400	-0.667400E+00	0.105730E+01	0.790390E+01	0.380100E+00
15.600	-0.683700E+00	0.103690E+01	0.793280E+01	0.326900E+00
15.800	-0.699600E+00	0.101760E+01	0.795440E+01	0.274300E+00
16.000	-0.714400E+00	0.999300E+00	0.796970E+01	0.224800E+00
16.200	-0.727400E+00	0.981800E+00	0.797970E+01	0.179400E+00
16.400	-0.738400E+00	0.964900E+00	0.798510E+01	0.138700E+00
16.600	-0.747000E+00	0.948400E+00	0.798640E+01	0.103200E+00
16.800	-0.753300E+00	0.932200E+00	0.798440E+01	0.724000E-01
17.000	-0.757000E+00	0.916100E+00	0.797920E+01	0.466000E-01
17.200	-0.758300E+00	0.900100E+00	0.797130E+01	0.253000E-01
17.400	-0.757200E+00	0.884100E+00	0.796160E+01	0.800000E-02
17.600	-0.753700E+00	0.867800E+00	0.794900E+01	-0.560000E-02
17.800	-0.748000E+00	0.851300E+00	0.793450E+01	-0.162000E-01
18.000	-0.740300E+00	0.834500E+00	0.791820E+01	-0.240000E-01
18.200	-0.730600E+00	0.817500E+00	0.790040E+01	-0.297000E-01
18.400	-0.719200E+00	0.800100E+00	0.788090E+01	-0.335000E-01
18.600	-0.706200E+00	0.782500E+00	0.786020E+01	-0.359000E-01

1				
2				
3	18.800	-0.691800E+00	0.764500E+00	0.783820E+01
4	19.000	-0.676100E+00	0.746200E+00	0.781510E+01
5	19.200	-0.659400E+00	0.727700E+00	0.779110E+01
6	19.400	-0.641800E+00	0.709000E+00	0.776630E+01
7	19.600	-0.623400E+00	0.690000E+00	0.774070E+01
8	19.800	-0.604500E+00	0.670900E+00	0.771450E+01
9	20.000	-0.585100E+00	0.651700E+00	0.768780E+01
10	20.200	-0.565400E+00	0.632400E+00	0.766080E+01
11	20.400	-0.545500E+00	0.613100E+00	0.763340E+01
12	20.600	-0.525500E+00	0.593800E+00	0.760580E+01
13	20.800	-0.505600E+00	0.574600E+00	0.757820E+01
14	21.000	-0.466100E+00	0.536700E+00	0.752300E+01
15	21.200	-0.446800E+00	0.518100E+00	0.749560E+01
16	21.400	-0.427800E+00	0.499700E+00	0.746850E+01
17	21.600	-0.391000E+00	0.463900E+00	0.741520E+01
18	22.000	-0.373300E+00	0.446500E+00	0.738910E+01
19	22.200	-0.356100E+00	0.429500E+00	0.736360E+01
20	22.400	-0.264200E+00	0.337000E+00	0.722230E+01
21	23.600	-0.264200E+00	0.337000E+00	0.722230E+01
22	24.000	-0.238000E+00	0.309900E+00	0.718050E+01
23	24.200	-0.225800E+00	0.297000E+00	0.716060E+01
24	24.400	-0.214000E+00	0.284700E+00	0.714140E+01
25	24.800	-0.192100E+00	0.261400E+00	0.710510E+01
26	25.000	-0.181900E+00	0.250400E+00	0.708790E+01
27	25.400	-0.163000E+00	0.229800E+00	0.705570E+01
28	25.600	-0.154200E+00	0.220100E+00	0.704050E+01
29	25.800	-0.145800E+00	0.210800E+00	0.702590E+01
30	26.000	-0.137800E+00	0.201900E+00	0.701200E+01
31	26.200	-0.130300E+00	0.193400E+00	0.699870E+01
32	26.400	-0.123100E+00	0.185300E+00	0.698590E+01
33	26.600	-0.116300E+00	0.177500E+00	0.697370E+01
34	26.800	-0.109800E+00	0.170100E+00	0.696210E+01
35	27.000	-0.103700E+00	0.162900E+00	0.695090E+01
36	27.200	-0.979000E-01	0.156100E+00	0.694030E+01
37	27.400	-0.924000E-01	0.149600E+00	0.693010E+01
38	27.600	-0.872000E-01	0.143400E+00	0.692040E+01
39	28.000	-0.776000E-01	0.131800E+00	0.690230E+01
40	28.200	-0.732000E-01	0.126400E+00	0.689390E+01
41	28.400	-0.690000E-01	0.121200E+00	0.688580E+01
42	28.600	-0.651000E-01	0.116300E+00	0.687820E+01
43	28.800	-0.613000E-01	0.111600E+00	0.687080E+01
44	29.000	-0.578000E-01	0.107000E+00	0.686380E+01
45	29.200	-0.544000E-01	0.102700E+00	0.685720E+01
46	29.400	-0.513000E-01	0.986000E-01	0.685080E+01
47	29.600	-0.483000E-01	0.947000E-01	0.684480E+01
48	29.800	-0.454000E-01	0.909000E-01	0.683900E+01
49	30.000	-0.427000E-01	0.873000E-01	0.683340E+01
50	30.200	-0.402000E-01	0.838000E-01	0.682810E+01
51	30.400	-0.378000E-01	0.806000E-01	0.682310E+01
52	31.000	-0.313000E-01	0.716000E-01	0.680920E+01
53	31.200	-0.293000E-01	0.688000E-01	0.680500E+01
54	31.400	-0.275000E-01	0.662000E-01	0.680100E+01
55	31.600	-0.258000E-01	0.637000E-01	0.679720E+01
56	31.800	-0.241000E-01	0.613000E-01	0.679350E+01
57	32.200	-0.211000E-01	0.569000E-01	0.678660E+01
58	32.400	-0.197000E-01	0.548000E-01	0.678330E+01
59	32.600	-0.183000E-01	0.528000E-01	0.678020E+01
60	32.800	-0.171000E-01	0.509000E-01	0.677730E+01
	33.000	-0.159000E-01	0.491000E-01	0.677440E+01
	34.200	-0.980000E-02	0.399000E-01	0.675960E+01
	34.400	-0.900000E-02	0.386000E-01	0.675740E+01

The following tables display the transition dipole moments between the four lowest Σ^+ states with the lowest seven Π states of **NaRb**, for singlet (Tables 1 to 4) and triplet (Tables 5 to 8) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 2.54158059 Debye. All states are identified with their number with increasing energy.

Table 1: (1) $^1\Sigma^+$ -(1-7) $^1\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
4.400	0.318310E+01	0.275100E+00	-0.148100E+00	0.304000E+00	0.305100E+00	-0.159000E-01	0.533000E-01
4.600	0.316140E+01	0.436200E+00	-0.937000E-01	0.349600E+00	0.279400E+00	-0.840000E-02	0.283000E-01
4.800	0.313840E+01	0.568400E+00	0.233000E-01	0.391300E+00	0.246700E+00	-0.240000E-02	0.400000E-03
5.000	0.311630E+01	0.676100E+00	0.546000E-01	0.425700E+00	0.207800E+00	-0.130000E-02	0.316000E-01
5.200	0.309640E+01	0.764400E+00	0.131600E+00	0.452800E+00	0.164500E+00	-0.170000E-02	0.643000E-01
5.400	0.307900E+01	0.838300E+00	0.201100E+00	0.474300E+00	0.119000E+00	0.120000E-02	-0.970000E-01
5.600	0.306410E+01	0.902500E+00	0.259100E+00	0.493000E+00	0.738000E-01	0.700000E-02	-0.128600E+00
5.800	0.305120E+01	0.960900E+00	0.303800E+00	0.511500E+00	0.309000E-01	0.147000E-01	-0.158100E+00
6.000	0.304000E+01	0.101690E+01	0.334900E+00	0.531500E+00	-0.820000E-02	0.231000E-01	-0.185100E+00
6.200	0.302960E+01	0.107300E+01	0.352900E+00	0.554300E+00	-0.428000E-01	0.314000E-01	-0.209000E+00
6.800	0.299730E+01	0.125750E+01	0.338600E+00	0.637000E+00	-0.121700E+00	0.497000E-01	-0.261600E+00
7.000	0.298390E+01	0.132730E+01	0.317300E+00	0.665400E+00	-0.141100E+00	0.534000E-01	-0.272600E+00
7.400	0.294980E+01	0.148050E+01	0.263800E+00	0.715300E+00	-0.172000E+00	0.582000E-01	-0.285400E+00
7.600	0.292850E+01	0.156300E+01	0.235900E+00	0.735500E+00	-0.184100E+00	0.598000E-01	-0.287300E+00
7.800	0.290420E+01	0.164820E+01	0.209100E+00	0.752400E+00	-0.194100E+00	0.612000E-01	-0.286300E+00
8.000	0.287720E+01	0.173510E+01	0.184100E+00	0.766100E+00	-0.202000E+00	0.623000E-01	-0.282600E+00
8.200	0.284790E+01	0.182230E+01	0.161400E+00	0.776800E+00	-0.207700E+00	0.633000E-01	-0.276300E+00
8.400	0.281700E+01	0.190860E+01	0.141000E+00	0.784700E+00	-0.211200E+00	0.644000E-01	-0.267600E+00
8.600	0.278530E+01	0.199260E+01	0.123100E+00	0.790100E+00	-0.212300E+00	0.653000E-01	-0.256000E+00
8.800	0.275380E+01	0.207320E+01	0.107800E+00	0.792800E+00	-0.211000E+00	0.662000E-01	-0.243700E+00
9.000	0.272310E+01	0.214960E+01	0.952000E-01	0.792900E+00	-0.207300E+00	0.669000E-01	-0.229100E+00
9.200	0.269410E+01	0.222110E+01	0.853000E-01	0.790300E+00	-0.201300E+00	0.675000E-01	-0.213200E+00
9.400	0.266740E+01	0.228740E+01	0.783000E-01	0.784900E+00	-0.193200E+00	0.677000E-01	-0.196500E+00
9.800	0.262240E+01	0.240380E+01	0.733000E-01	0.765600E+00	-0.172400E+00	0.671000E-01	-0.162400E+00
10.000	0.260440E+01	0.245400E+01	0.755000E-01	0.751700E+00	-0.160500E+00	0.661000E-01	-0.145800E+00
10.200	0.258940E+01	0.249900E+01	0.805000E-01	0.735200E+00	-0.148400E+00	0.646000E-01	-0.130000E+00
10.400	0.257730E+01	0.253920E+01	0.883000E-01	0.716300E+00	-0.136400E+00	0.626000E-01	-0.115300E+00
10.600	0.256800E+01	0.257480E+01	0.984000E-01	0.695400E+00	-0.125100E+00	0.602000E-01	-0.101800E+00
10.800	0.256110E+01	0.260600E+01	0.110300E+00	0.672800E+00	-0.114700E+00	0.573000E-01	-0.898000E-01
11.000	0.255650E+01	0.263320E+01	0.123700E+00	0.649100E+00	-0.105300E+00	0.540000E-01	-0.792000E-01
11.200	0.255400E+01	0.265660E+01	0.137800E+00	0.624600E+00	-0.971000E-01	0.504000E-01	-0.699000E-01
11.400	0.255330E+01	0.267650E+01	0.152000E+00	0.599700E+00	-0.901000E-01	0.466000E-01	-0.619000E-01
11.600	0.255420E+01	0.269320E+01	0.166000E+00	0.575000E+00	-0.842000E-01	0.426000E-01	-0.555000E-01
11.800	0.255660E+01	0.270700E+01	0.179200E+00	0.550700E+00	-0.794000E-01	0.385000E-01	-0.492000E-01
12.000	0.256020E+01	0.271830E+01	0.191300E+00	0.527100E+00	-0.753000E-01	0.343000E-01	-0.441000E-01
12.200	0.256480E+01	0.272720E+01	0.202000E+00	0.504500E+00	-0.720000E-01	0.301000E-01	-0.396000E-01
12.400	0.257040E+01	0.273410E+01	0.211100E+00	0.483000E+00	-0.691000E-01	0.260000E-01	-0.353000E-01
12.600	0.257690E+01	0.273920E+01	0.218700E+00	0.462800E+00	-0.666000E-01	0.219000E-01	-0.306000E-01
12.800	0.258390E+01	0.274420E+01	0.224600E+00	0.443900E+00	-0.642000E-01	0.179000E-01	-0.244000E-01
13.000	0.259160E+01	0.274480E+01	0.228900E+00	0.426400E+00	-0.618000E-01	0.141000E-01	-0.150000E-01
13.200	0.259970E+01	0.274570E+01	0.231700E+00	0.410400E+00	-0.593000E-01	0.105000E-01	-0.310000E-02
13.400	0.260830E+01	0.274560E+01	0.233200E+00	0.395600E+00	-0.567000E-01	0.720000E-02	-0.550000E-02
13.600	0.261710E+01	0.274470E+01	0.233400E+00	0.382200E+00	-0.538000E-01	0.420000E-02	-0.940000E-02
13.800	0.262610E+01	0.274300E+01	0.232500E+00	0.370000E+00	-0.508000E-01	0.150000E-02	-0.107000E-01
14.000	0.263520E+01	0.274060E+01	0.230600E+00	0.359000E+00	-0.477000E-01	-0.900000E-03	-0.110000E-01
14.200	0.264450E+01	0.273770E+01	0.227900E+00	0.349000E+00	-0.443000E-01	-0.290000E-02	-0.109000E-01
14.400	0.265380E+01	0.273440E+01	0.224500E+00	0.340100E+00	-0.409000E-01	-0.460000E-02	-0.104000E-01
14.600	0.266310E+01	0.273060E+01	0.220500E+00	0.332000E+00	-0.374000E-01	-0.580000E-02	-0.990000E-02
14.800	0.267230E+01	0.272660E+01	0.216000E+00	0.324800E+00	-0.340000E-01	-0.680000E-02	-0.920000E-02
15.000	0.268140E+01	0.272240E+01	0.211100E+00	0.318300E+00	-0.306000E-01	-0.740000E-02	-0.850000E-02
15.200	0.269050E+01	0.271790E+01	0.205900E+00	0.312500E+00	-0.273000E-01	-0.770000E-02	-0.770000E-02
15.400	0.269930E+01	0.271330E+01	0.200500E+00	0.307200E+00	-0.241000E-01	-0.790000E-02	-0.680000E-02
15.600	0.270800E+01	0.270870E+01	0.195000E+00	0.302500E+00	-0.210000E-01	-0.780000E-02	-0.590000E-02
15.800	0.271660E+01	0.270390E+01	0.189300E+00	0.298300E+00	-0.181000E-01	-0.750000E-02	-0.500000E-02
16.200	0.273300E+01	0.269430E+01	0.177900E+00	0.291100E+00	-0.129000E-01	-0.680000E-02	-0.290000E-02
16.400	0.274090E+01	0.268950E+01	0.172200E+00	0.288000E+00	-0.105000E-01	-0.630000E-02	-0.180000E-02
16.600	0.274860E+01	0.268470E+01	0.166600E+00	0.285200E+00	-0.830000E-02	-0.580000E-02	-0.500000E-03
16.800	0.275610E+01	0.268000E+01	0.161000E+00	0.282700E+00	-0.630000E-02	-0.530000E-02	0.600000E-03
17.000	0.276330E+01	0.267540E+01	0.155600E+00	0.280400E+00	-0.440000E-02	-0.480000E-02	0.180000E-02
17.200	0.277030E+01	0.267080E+01	0.150300E+00	0.278400E+00	-0.260000E-02	-0.430000E-02	0.300000E-02
17.400	0.277710E+01	0.266630E+01	0.145100E+00	0.276500E+00	-0.100000E-02	-0.380000E-02	0.410000E-02
17.600	0.278360E+01	0.266180E+01	0.140100E+00	0.274800E+00	0.400000E-03	-0.340000E-02	0.520000E-02
17.800	0.279000E+01	0.265750E+01	0.135300E+00	0.273300E+00	0.180000E-02	-0.290000E-02	0.630000E-02
18.000	0.279610E+01	0.265330E+01	0.130600E+00	0.271900E+00	0.300000E-02	-0.250000E-02	0.730000E-02
18.600	0.281320E+01	0.264120E+01	0.117500E+00	0.268400E+00	0.610000E-02	-0.130000E-02	0.990000E-02
19.000	0.282360E+01	0.263370E+01	0.109600E+00	0.266500E+00	0.780000E-02	-0.500000E-03	0.111000E-01
19.200	0.282860E+01	0.263000E+01	0.105900E+00	0.265700E+00	0.850000E-02	-0.100000E-03	0.115000E-01
19.400	0.283330E+01	0.262650E+01	0.102300E+00	0.264900E+00	0.920000E-02	0.400000E-03	0.118000E-01

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3	19.800	0.284230E+01	0.261980E+01	0.956000E-01	0.263600E+00	0.103000E-01	0.120000E-02	0.127000E-01
4	20.000	0.284660E+01	0.261660E+01	0.925000E-01	0.263000E+00	0.109000E-01	0.170000E-02	0.130000E-01
5	20.400	0.285460E+01	0.261050E+01	0.866000E-01	0.261900E+00	0.117000E-01	0.270000E-02	0.133000E-01
6	20.600	0.285850E+01	0.260760E+01	0.839000E-01	0.261500E+00	0.121000E-01	0.330000E-02	0.133000E-01
7	21.600	0.287560E+01	0.259430E+01	0.718000E-01	0.259500E+00	0.135000E-01	0.640000E-02	0.122000E-01
8	22.400	0.288730E+01	0.258510E+01	0.637000E-01	0.258400E+00	0.142000E-01	0.920000E-02	0.101000E-01
9	22.600	0.289000E+01	0.258300E+01	0.619000E-01	0.258200E+00	0.144000E-01	0.100000E-01	0.940000E-02
10	22.800	0.289250E+01	0.258090E+01	0.601000E-01	0.257900E+00	0.145000E-01	0.107000E-01	0.870000E-02
11	23.000	0.289500E+01	0.257890E+01	0.584000E-01	0.257700E+00	0.146000E-01	0.115000E-01	0.810000E-02
12	23.200	0.289750E+01	0.257700E+01	0.568000E-01	0.257500E+00	0.147000E-01	0.123000E-01	0.740000E-02
13	23.800	0.290420E+01	0.257150E+01	0.522000E-01	0.257000E+00	0.149000E-01	0.148000E-01	0.570000E-02
14	24.000	0.290630E+01	0.256980E+01	0.507000E-01	0.256800E+00	0.149000E-01	0.157000E-01	0.500000E-02
15	24.200	0.290840E+01	0.256810E+01	0.494000E-01	0.256700E+00	0.149000E-01	0.165000E-01	0.450000E-02
16	24.400	0.291040E+01	0.256660E+01	0.480000E-01	0.256500E+00	0.149000E-01	0.174000E-01	0.410000E-02
17	24.600	0.291230E+01	0.256500E+01	0.468000E-01	0.256400E+00	0.149000E-01	0.183000E-01	0.380000E-02
18	24.800	0.291410E+01	0.256350E+01	0.455000E-01	0.256300E+00	0.149000E-01	0.192000E-01	0.350000E-02
19	25.000	0.291590E+01	0.256200E+01	0.443000E-01	0.256100E+00	0.149000E-01	0.201000E-01	0.330000E-02
20	25.200	0.291770E+01	0.256060E+01	0.431000E-01	0.256000E+00	0.149000E-01	0.210000E-01	0.300000E-02
21	25.400	0.291940E+01	0.255920E+01	0.420000E-01	0.255900E+00	0.148000E-01	0.219000E-01	0.280000E-02
22	25.600	0.292100E+01	0.255780E+01	0.409000E-01	0.255800E+00	0.148000E-01	0.229000E-01	0.260000E-02
23	25.800	0.292260E+01	0.255600E+01	0.398000E-01	0.255700E+00	0.147000E-01	0.238000E-01	0.240000E-02
24	26.000	0.292410E+01	0.255520E+01	0.388000E-01	0.255600E+00	0.146000E-01	0.247000E-01	0.230000E-02
25	26.200	0.292560E+01	0.255410E+01	0.378000E-01	0.255600E+00	0.145000E-01	0.256000E-01	0.210000E-02
26	26.400	0.292710E+01	0.255290E+01	0.368000E-01	0.255500E+00	0.144000E-01	0.265000E-01	0.200000E-02
27	26.600	0.292850E+01	0.255170E+01	0.358000E-01	0.255400E+00	0.143000E-01	0.274000E-01	0.190000E-02
28	26.800	0.292980E+01	0.255060E+01	0.349000E-01	0.255300E+00	0.141000E-01	0.283000E-01	0.180000E-02
29	27.000	0.293120E+01	0.254950E+01	0.340000E-01	0.255200E+00	0.140000E-01	0.292000E-01	0.170000E-02
30	27.200	0.293250E+01	0.254840E+01	0.331000E-01	0.255200E+00	0.138000E-01	0.301000E-01	0.160000E-02
31	27.400	0.293370E+01	0.254730E+01	0.323000E-01	0.255100E+00	0.136000E-01	0.310000E-01	0.150000E-02
32	27.600	0.293490E+01	0.254630E+01	0.314000E-01	0.255100E+00	0.134000E-01	0.318000E-01	0.140000E-02
33	27.800	0.293610E+01	0.254530E+01	0.306000E-01	0.255000E+00	0.132000E-01	0.327000E-01	0.130000E-02
34	28.000	0.293730E+01	0.254440E+01	0.298000E-01	0.254900E+00	0.130000E-01	0.335000E-01	0.130000E-02
35	28.400	0.293950E+01	0.254250E+01	0.283000E-01	0.254800E+00	0.126000E-01	0.351000E-01	0.110000E-02
36	29.000	0.294260E+01	0.254000E+01	0.262000E-01	0.254700E+00	0.118000E-01	0.374000E-01	0.900000E-03
37	29.200	0.294350E+01	0.253910E+01	0.255000E-01	0.254700E+00	0.116000E-01	0.381000E-01	0.900000E-03
38	29.400	0.294450E+01	0.253830E+01	0.249000E-01	0.254600E+00	0.113000E-01	0.387000E-01	0.800000E-03
39	29.600	0.294540E+01	0.253750E+01	0.242000E-01	0.254600E+00	0.110000E-01	0.394000E-01	0.800000E-03
40	29.800	0.294630E+01	0.253680E+01	0.236000E-01	0.254500E+00	0.108000E-01	0.400000E-01	0.700000E-03
41	30.000	0.294660E+01	0.253550E+01	0.230000E-01	0.254400E+00	0.105000E-01	0.405000E-01	0.700000E-03
42	30.600	0.294970E+01	0.253390E+01	0.213000E-01	0.254400E+00	0.960000E-02	0.420000E-01	0.600000E-03
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Table 2: $(2)^1\Sigma^+ - (1-7)^1\Pi$ transitions

R	2-1	2-2	2-3	2-4	2-5	2-6	2-7
4.400	0.649200E+00	-0.131210E+01	0.121570E+01	-0.171960E+01	0.138450E+01	-0.583600E+00	0.867400E+00
4.600	0.718800E+00	-0.139130E+01	0.114150E+01	-0.176910E+01	0.131150E+01	-0.629300E+00	0.923300E+00
4.800	0.781600E+00	-0.147310E+01	0.105750E+01	-0.179020E+01	0.124320E+01	-0.678200E+00	0.982000E+00
5.000	0.837200E+00	-0.155210E+01	0.980700E+00	-0.177920E+01	0.118120E+01	-0.725400E+00	0.104020E+01
5.200	0.885800E+00	-0.162350E+01	0.925600E+00	-0.173900E+01	0.112650E+01	-0.767300E+00	0.109430E+01
5.400	0.928200E+00	-0.168360E+01	0.899200E+00	-0.167750E+01	0.107950E+01	-0.802600E+00	0.114040E+01
5.600	0.965600E+00	-0.173020E+01	0.901800E+00	-0.160450E+01	0.103930E+01	-0.831900E+00	0.117590E+01
5.800	0.998900E+00	-0.176250E+01	0.930100E+00	-0.152800E+01	0.100490E+01	-0.856900E+00	0.119970E+01
6.000	0.102900E+01	-0.178050E+01	0.980300E+00	-0.145270E+01	0.975800E+00	-0.879500E+00	0.121300E+01
6.200	0.105650E+01	-0.178500E+01	0.104840E+01	-0.137990E+01	0.951800E+00	-0.900700E+00	0.121790E+01
6.800	0.112700E+01	-0.172720E+01	0.132410E+01	-0.116930E+01	0.912700E+00	-0.957500E+00	0.120660E+01
7.000	0.114630E+01	-0.168760E+01	0.142650E+01	-0.110040E+01	0.910600E+00	-0.972600E+00	0.120100E+01
7.400	0.117620E+01	-0.158450E+01	0.162550E+01	-0.973400E+00	0.921100E+00	-0.994100E+00	0.119280E+01
7.600	0.118560E+01	-0.152310E+01	0.171820E+01	-0.920100E+00	0.932900E+00	-0.100080E+01	0.119150E+01
7.800	0.119030E+01	-0.145690E+01	0.180540E+01	-0.875700E+00	0.948500E+00	-0.100500E+01	0.119270E+01
8.000	0.118980E+01	-0.138700E+01	0.188680E+01	-0.841000E+00	0.967400E+00	-0.100630E+01	0.119410E+01
8.200	0.118340E+01	-0.131460E+01	0.196250E+01	-0.816300E+00	0.988900E+00	-0.100440E+01	0.119480E+01
8.400	0.117070E+01	-0.124130E+01	0.203290E+01	-0.801200E+00	0.101300E+01	-0.100170E+01	0.119780E+01
8.600	0.115170E+01	-0.116780E+01	0.209790E+01	-0.795500E+00	0.103880E+01	-0.996500E+00	0.119910E+01
8.800	0.112650E+01	-0.109520E+01	0.215770E+01	-0.798300E+00	0.106600E+01	-0.990000E+00	0.119950E+01
9.000	0.109540E+01	-0.102420E+01	0.221230E+01	-0.809000E+00	0.109400E+01	-0.982400E+00	0.119860E+01
9.200	0.105890E+01	-0.955200E+00	0.226200E+01	-0.826700E+00	0.112240E+01	-0.974100E+00	0.119640E+01
9.400	0.101800E+01	-0.888200E+00	0.230660E+01	-0.850300E+00	0.115080E+01	-0.965400E+00	0.119270E+01
9.800	0.925600E+00	-0.760600E+00	0.238150E+01	-0.910600E+00	0.120640E+01	-0.948400E+00	0.118160E+01
10.000	0.876000E+00	-0.699600E+00	0.241210E+01	-0.944700E+00	0.123340E+01	-0.940800E+00	0.117470E+01
10.200	0.825200E+00	-0.640300E+00	0.243840E+01	-0.979700E+00	0.126010E+01	-0.934300E+00	0.116740E+01
10.400	0.773900E+00	-0.582400E+00	0.246060E+01	-0.101440E+01	0.128660E+01	-0.929000E+00	0.116000E+01
10.600	0.722800E+00	-0.526100E+00	0.247900E+01	-0.104750E+01	0.131320E+01	-0.925400E+00	0.115260E+01
10.800	0.672500E+00	-0.471300E+00	0.249410E+01	-0.107780E+01	0.134030E+01	-0.923500E+00	0.114540E+01
11.000	0.623300E+00	-0.418300E+00	0.250600E+01	-0.110450E+01	0.136790E+01	-0.923600E+00	0.113860E+01
11.200	0.575800E+00	-0.367300E+00	0.251540E+01	-0.112650E+01	0.139640E+01	-0.925700E+00	0.113220E+01
11.400	0.530200E+00	-0.318600E+00	0.252270E+01	-0.114330E+01	0.142570E+01	-0.929900E+00	0.112630E+01
11.600	0.486700E+00	-0.272500E+00	0.252850E+01	-0.115410E+01	0.145570E+01	-0.936400E+00	0.112100E+01
11.800	0.445500E+00	-0.229000E+00	0.253310E+01	-0.115880E+01	0.148590E+01	-0.945000E+00	0.111600E+01
12.000	0.406600E+00	-0.188400E+00	0.253720E+01	-0.115700E+01	0.151590E+01	-0.955900E+00	0.111130E+01
12.200	0.370200E+00	-0.150800E+00	0.254130E+01	-0.114880E+01	0.154500E+01	-0.968900E+00	0.110660E+01
12.400	0.336100E+00	-0.116100E+00	0.254580E+01	-0.113440E+01	0.157230E+01	-0.984200E+00	0.110040E+01
12.600	0.304500E+00	-0.844000E-01	0.255110E+01	-0.111430E+01	0.159690E+01	-0.100150E+01	0.108830E+01
12.800	0.275100E+00	-0.555000E-01	0.255750E+01	-0.1108910E+01	0.161770E+01	-0.102070E+01	0.105620E+01
13.000	0.248000E+00	-0.293000E-01	0.256520E+01	-0.105950E+01	0.163390E+01	-0.104160E+01	0.961100E+00
13.200	0.223100E+00	0.560000E-02	0.257460E+01	-0.102610E+01	0.164450E+01	-0.106370E+01	0.747700E+00
13.400	0.200200E+00	0.157000E-01	0.258560E+01	-0.989900E+00	0.164890E+01	-0.108630E+01	0.496400E+00
13.600	0.179400E+00	0.347000E-01	0.259830E+01	-0.951400E+00	0.164660E+01	-0.110880E+01	0.300700E+00
13.800	0.160400E+00	0.516000E-01	0.261280E+01	-0.911300E+00	0.163740E+01	-0.113010E+01	0.153900E+00
14.000	0.143100E+00	0.667000E-01	0.262900E+01	-0.870100E+00	0.162130E+01	-0.114910E+01	0.347000E-01
14.200	0.127600E+00	0.800000E-01	0.264680E+01	-0.828200E+00	0.159860E+01	-0.116470E+01	0.693000E-01
14.400	0.113600E+00	0.916000E-01	0.266590E+01	-0.786100E+00	0.156980E+01	-0.117570E+01	0.164300E+00
14.600	0.101200E+00	0.101700E+00	0.268630E+01	-0.743800E+00	0.153550E+01	-0.118100E+01	0.253300E+00
14.800	0.900000E-01	0.110400E+00	0.270750E+01	-0.701800E+00	0.149670E+01	-0.117970E+01	0.337800E+00
15.000	0.802000E-01	0.117800E+00	0.272940E+01	-0.660100E+00	0.145400E+01	-0.117100E+01	0.418100E+00
15.200	0.716000E-01	0.124000E+00	0.275170E+01	-0.618800E+00	0.140850E+01	-0.115480E+01	0.494100E+00
15.400	0.640000E-01	0.129000E+00	0.277410E+01	-0.578200E+00	0.136100E+01	-0.113100E+01	0.565600E+00
15.600	0.574000E-01	0.133000E+00	0.279620E+01	-0.538500E+00	0.131230E+01	-0.109990E+01	0.631800E+00
15.800	0.517000E-01	0.136100E+00	0.281790E+01	-0.499700E+00	0.126310E+01	-0.106230E+01	0.692800E+00
16.200	0.426000E-01	0.139500E+00	0.285880E+01	-0.425800E+00	0.116570E+01	-0.971100E+00	0.794800E+00
16.400	0.390000E-01	0.140100E+00	0.287770E+01	-0.390900E+00	0.111840E+01	-0.919600E+00	0.835400E+00
16.600	0.360000E-01	0.140100E+00	0.289550E+01	-0.357600E+00	0.107280E+01	-0.865900E+00	0.869100E+00
16.800	0.333000E-01	0.139400E+00	0.291200E+01	-0.326000E+00	0.102880E+01	-0.810800E+00	0.896200E+00
17.000	0.311000E-01	0.138300E+00	0.292720E+01	-0.296200E+00	0.986900E+00	-0.755400E+00	0.917000E+00
17.200	0.292000E-01	0.136700E+00	0.294120E+01	-0.268200E+00	0.947100E+00	-0.700400E+00	0.931800E+00
17.400	0.276000E-01	0.134700E+00	0.295400E+01	-0.242000E+00	0.909600E+00	-0.646700E+00	0.941300E+00
17.600	0.262000E-01	0.132400E+00	0.296570E+01	-0.217700E+00	0.874500E+00	-0.594700E+00	0.945900E+00
17.800	0.250000E-01	0.129900E+00	0.297620E+01	-0.195200E+00	0.841600E+00	-0.544800E+00	0.946300E+00
18.000	0.239000E-01	0.127100E+00	0.298580E+01	-0.174500E+00	0.811000E+00	-0.497400E+00	0.943100E+00
18.600	0.212000E-01	0.118100E+00	0.300970E+01	-0.122100E+00	0.732500E+00	-0.371200E+00	0.917300E+00
19.000	0.198000E-01	0.111700E+00	0.302220E+01	-0.945000E-01	0.690100E+00	-0.300500E+00	0.891900E+00
19.200	0.191000E-01	0.108500E+00	0.302760E+01	-0.827000E-01	0.671700E+00	-0.269000E+00	0.878000E+00
19.400	0.185000E-01	0.105300E+00	0.303260E+01	-0.720000E-01	0.654800E+00	-0.239900E+00	0.864100E+00
19.800	0.173000E-01	0.991000E-01	0.304150E+01	-0.536000E-01	0.625600E+00	-0.188800E+00	0.837200E+00
20.000	0.167000E-01	0.964000E-01	0.304540E+01	-0.459000E-01	0.613000E+00	-0.166200E+00	0.824900E+00
20.400	0.156000E-01	0.901000E-01	0.305250E+01	-0.326000E-01	0.591300E+00	-0.126500E+00	0.804100E+00
20.600	0.150000E-01	0.872000E-01	0.305560E+01	-0.271000E-01	0.582100E+00	-0.109100E+00	0.796200E+00
21.600	0.125000E-01	0.741000E-01	0.306880E+01	-0.710000E-02	0.548200E+00	-0.418000E-01	0.790200E+00
22.400	0.106000E-01	0.650000E-01	0.307700E+01	-0.210000E-02	0.532200E+00	-0.560000E-02	0.822000E+00
22.600	0.101000E-01	0.629000E-01	0.307880E+01	0.380000E-02	0.529300E+00	0.180000E-02	0.831000E+00
22.800	0.970000E-02	0.609000E-01	0.308050E+01	0.520000E-02	0.526700E+00	0.850000E-02	0.838800E+00
23.000	0.930000E-02	0.589000E-01	0.308220E+01	0.650000E-02	0.524500E+00	0.148000E-01	0.844900E+00

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3	23.200	0.890000E-02	0.571000E-01	0.308380E+01	0.760000E-02	0.522500E+00	0.205000E-01	0.848900E+00
4	23.800	0.770000E-02	0.518000E-01	0.308810E+01	0.101000E-01	0.518000E+00	0.357000E-01	0.849300E+00
5	24.000	0.730000E-02	0.502000E-01	0.308950E+01	0.107000E-01	0.516900E+00	0.402000E-01	0.846000E+00
6	24.200	0.700000E-02	0.487000E-01	0.309080E+01	0.112000E-01	0.516000E+00	0.444000E-01	0.841500E+00
7	24.400	0.660000E-02	0.472000E-01	0.309200E+01	0.116000E-01	0.515200E+00	0.484000E-01	0.836100E+00
8	24.600	0.630000E-02	0.457000E-01	0.309320E+01	0.120000E-01	0.514500E+00	0.523000E-01	0.830000E+00
9	24.800	0.600000E-02	0.443000E-01	0.309440E+01	0.123000E-01	0.514000E+00	0.561000E-01	0.823200E+00
10	25.000	0.570000E-02	0.430000E-01	0.309550E+01	0.125000E-01	0.513500E+00	0.597000E-01	0.815900E+00
11	25.200	0.530000E-02	0.416000E-01	0.309660E+01	0.127000E-01	0.513200E+00	0.633000E-01	0.808200E+00
12	25.400	0.500000E-02	0.404000E-01	0.309760E+01	0.129000E-01	0.512900E+00	0.668000E-01	0.800300E+00
13	25.600	0.480000E-02	0.392000E-01	0.309860E+01	0.130000E-01	0.512700E+00	0.703000E-01	0.792000E+00
14	25.800	0.450000E-02	0.380000E-01	0.309960E+01	0.130000E-01	0.512500E+00	0.738000E-01	0.783600E+00
15	26.000	0.420000E-02	0.369000E-01	0.310060E+01	0.131000E-01	0.512400E+00	0.773000E-01	0.775000E+00
16	26.200	0.400000E-02	0.358000E-01	0.310150E+01	0.131000E-01	0.512400E+00	0.809000E-01	0.766300E+00
17	26.400	0.370000E-02	0.348000E-01	0.310240E+01	0.131000E-01	0.512400E+00	0.844000E-01	0.757500E+00
18	26.600	0.350000E-02	0.337000E-01	0.310320E+01	0.130000E-01	0.512400E+00	0.879000E-01	0.748700E+00
19	26.800	0.320000E-02	0.328000E-01	0.310410E+01	0.130000E-01	0.512400E+00	0.916000E-01	0.739800E+00
20	27.000	0.300000E-02	0.318000E-01	0.310490E+01	0.129000E-01	0.512500E+00	0.954000E-01	0.730900E+00
21	27.200	0.280000E-02	0.309000E-01	0.310570E+01	0.128000E-01	0.512600E+00	0.993000E-01	0.721900E+00
22	27.400	0.260000E-02	0.300000E-01	0.310640E+01	0.128000E-01	0.512800E+00	0.103300E+00	0.712900E+00
23	27.600	0.240000E-02	0.292000E-01	0.310720E+01	0.126000E-01	0.512900E+00	0.107400E+00	0.704000E+00
24	27.800	0.220000E-02	0.284000E-01	0.310790E+01	0.125000E-01	0.513100E+00	0.111600E+00	0.695000E+00
25	28.000	0.200000E-02	0.276000E-01	0.310860E+01	0.124000E-01	0.513300E+00	0.115900E+00	0.686100E+00
26	28.400	0.170000E-02	0.261000E-01	0.311000E+01	0.121000E-01	0.513700E+00	0.124900E+00	0.668400E+00
27	29.000	0.120000E-02	0.240000E-01	0.311190E+01	0.117000E-01	0.514400E+00	0.139300E+00	0.642100E+00
28	29.200	0.110000E-02	0.234000E-01	0.311260E+01	0.116000E-01	0.514700E+00	0.144400E+00	0.633500E+00
29	29.400	0.900000E-03	0.227000E-01	0.311320E+01	0.114000E-01	0.515000E+00	0.149500E+00	0.625000E+00
30	29.600	0.800000E-03	0.221000E-01	0.311330E+01	0.113000E-01	0.515300E+00	0.154700E+00	0.616500E+00
31	29.800	0.700000E-03	0.215000E-01	0.311440E+01	0.111000E-01	0.515500E+00	0.160100E+00	0.608100E+00
32	30.000	0.600000E-03	0.210000E-01	0.311490E+01	0.110000E-01	0.515900E+00	0.165500E+00	0.599700E+00
33	30.600	0.200000E-03	0.194000E-01	0.311660E+01	0.105000E-01	0.516800E+00	0.182300E+00	0.575200E+00
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Table 3: $(3)^1\Sigma^+ - (1-7)^1\Pi$ transitions

R	3-1	3-2	3-3	3-4	3-5	3-6	3-7
4.400	0.395600E+00	-0.111100E+00	-0.610500E+00	0.478300E+00	-0.497900E+00	-0.171260E+01	0.218700E+00
4.600	0.380600E+00	-0.869000E-01	-0.682200E+00	0.545700E+00	-0.480200E+00	-0.175150E+01	0.170600E+00
4.800	0.352600E+00	-0.611000E-01	-0.766800E+00	0.627700E+00	-0.472600E+00	-0.176410E+01	0.135600E+00
5.000	0.314500E+00	-0.376000E-01	-0.857500E+00	0.715900E+00	-0.478000E+00	-0.175200E+01	0.109800E+00
5.200	0.271000E+00	-0.191000E-01	-0.949000E+00	0.801300E+00	-0.496500E+00	-0.171930E+01	0.909000E-01
5.400	0.228200E+00	-0.670000E-02	-0.103620E+01	0.875700E+00	-0.526000E+00	-0.167180E+01	0.782000E-01
5.600	0.191100E+00	-0.100000E-03	-0.111530E+01	0.933600E+00	-0.563800E+00	-0.161670E+01	0.717000E-01
5.800	0.163400E+00	0.180000E-02	-0.118370E+01	0.972000E+00	-0.607300E+00	-0.156030E+01	0.705000E-01
6.000	0.146900E+00	-0.700000E-03	-0.124060E+01	0.990300E+00	-0.654400E+00	-0.150810E+01	0.743000E-01
6.200	0.141700E+00	-0.200000E-02	-0.128590E+01	0.989700E+00	-0.703400E+00	-0.146290E+01	0.822000E-01
6.800	0.183800E+00	-0.970000E-02	-0.135470E+01	0.906700E+00	-0.848100E+00	-0.137870E+01	0.126900E+00
7.000	0.211900E+00	-0.980000E-02	-0.135400E+01	0.869000E+00	-0.892400E+00	-0.136550E+01	0.149000E+00
7.400	0.279800E+00	-0.370000E-02	-0.131680E+01	0.810500E+00	-0.970800E+00	-0.135250E+01	0.205600E+00
7.600	0.316700E+00	0.290000E-02	-0.128220E+01	0.796100E+00	-0.100430E+01	-0.135000E+01	0.241800E+00
7.800	0.353900E+00	0.120000E-01	-0.123920E+01	0.792700E+00	-0.103310E+01	-0.134890E+01	0.284000E+00
8.000	0.390200E+00	0.233000E-01	-0.118940E+01	0.800100E+00	-0.105750E+01	-0.134770E+01	0.331600E+00
8.200	0.424700E+00	0.364000E-01	-0.113470E+01	0.816700E+00	-0.107690E+01	-0.134560E+01	0.382900E+00
8.400	0.456700E+00	0.512000E-01	-0.107670E+01	0.840100E+00	-0.109170E+01	-0.134360E+01	0.441000E+00
8.600	0.485500E+00	0.668000E-01	-0.101690E+01	0.869200E+00	-0.110160E+01	-0.134020E+01	0.502000E+00
8.800	0.510800E+00	0.828000E-01	-0.956400E+00	0.902000E+00	-0.110690E+01	-0.133610E+01	0.565600E+00
9.000	0.532200E+00	0.984000E-01	-0.896200E+00	0.937000E+00	-0.110790E+01	-0.133140E+01	0.630700E+00
9.200	0.549700E+00	0.113200E+00	-0.837200E+00	0.972800E+00	-0.110470E+01	-0.132640E+01	0.696000E+00
9.400	0.563300E+00	0.126600E+00	-0.780100E+00	0.100850E+01	-0.109750E+01	-0.132120E+01	0.760200E+00
9.800	0.579800E+00	0.148000E+00	-0.672800E+00	0.107660E+01	-0.107100E+01	-0.131070E+01	0.881500E+00
10.000	0.583100E+00	0.155500E+00	-0.623000E+00	0.110820E+01	-0.105150E+01	-0.130520E+01	0.937400E+00
10.200	0.583600E+00	0.160900E+00	-0.575700E+00	0.113770E+01	-0.102740E+01	-0.129910E+01	0.989800E+00
10.400	0.581700E+00	0.164300E+00	-0.530700E+00	0.116530E+01	-0.998400E+00	-0.129190E+01	0.103870E+01
10.600	0.577600E+00	0.165800E+00	-0.487800E+00	0.119090E+01	-0.964000E+00	-0.128280E+01	0.108450E+01
10.800	0.571600E+00	0.165700E+00	-0.446500E+00	0.121480E+01	-0.924100E+00	-0.127110E+01	0.112740E+01
11.000	0.564200E+00	0.164400E+00	-0.406300E+00	0.123710E+01	-0.878200E+00	-0.125590E+01	0.116760E+01
11.200	0.555500E+00	0.162200E+00	-0.366700E+00	0.125810E+01	-0.826300E+00	-0.123610E+01	0.120540E+01
11.400	0.545700E+00	0.159300E+00	-0.327100E+00	0.127810E+01	-0.768300E+00	-0.121090E+01	0.124070E+01
11.600	0.535100E+00	0.156100E+00	-0.286600E+00	0.129760E+01	-0.704400E+00	-0.117910E+01	0.127340E+01
11.800	0.523700E+00	0.152900E+00	-0.244300E+00	0.131720E+01	-0.634500E+00	-0.113960E+01	0.130250E+01
12.000	0.511500E+00	0.150200E+00	-0.199000E+00	0.133770E+01	-0.558800E+00	-0.109100E+01	0.132700E+01
12.200	0.498700E+00	0.148200E+00	-0.149100E+00	0.136040E+01	-0.477100E+00	-0.103150E+01	0.134550E+01
12.400	0.484900E+00	0.147400E+00	-0.921000E-01	0.138710E+01	-0.388800E+00	-0.958600E+00	0.135550E+01
12.600	0.469900E+00	0.148400E+00	-0.248000E-01	0.142020E+01	-0.292900E+00	-0.868100E+00	0.135350E+01
12.800	0.453000E+00	0.151800E+00	0.575000E-01	0.146290E+01	-0.187000E+00	-0.753900E+00	0.133390E+01
13.000	0.432900E+00	0.158400E+00	0.161100E+00	0.151880E+01	-0.677000E-01	-0.606600E+00	0.128620E+01
13.200	0.407500E+00	0.168900E+00	0.292800E+00	0.158960E+01	0.694000E-01	-0.413600E+00	0.122220E+01
13.400	0.374400E+00	0.182700E+00	0.454000E+00	0.167010E+01	0.226500E+00	-0.165200E+00	0.122820E+01
13.600	0.332600E+00	0.197100E+00	0.629800E+00	0.174260E+01	0.396000E+00	0.130000E+00	0.132160E+01
13.800	0.287100E+00	0.207300E+00	0.786700E+00	0.178630E+01	0.558500E+00	0.432700E+00	0.143150E+01
14.000	0.246300E+00	0.210700E+00	0.897900E+00	0.179770E+01	0.696600E+00	0.699700E+00	0.150890E+01
14.200	0.215000E+00	0.208400E+00	0.961900E+00	0.178990E+01	0.807600E+00	0.917000E+00	0.154520E+01
14.400	0.193100E+00	0.202400E+00	0.990100E+00	0.177570E+01	0.897500E+00	0.109330E+01	0.155050E+01
14.600	0.178500E+00	0.194400E+00	0.994200E+00	0.176130E+01	0.972600E+00	0.124150E+01	0.153370E+01
14.800	0.169000E+00	0.185200E+00	0.982100E+00	0.174910E+01	0.103720E+01	0.137130E+01	0.150080E+01
15.000	0.163100E+00	0.175400E+00	0.958800E+00	0.173940E+01	0.109420E+01	0.148880E+01	0.145550E+01
15.200	0.159700E+00	0.165400E+00	0.927500E+00	0.173210E+01	0.114500E+01	0.159730E+01	0.140030E+01
15.400	0.157900E+00	0.155200E+00	0.890100E+00	0.172670E+01	0.119070E+01	0.169830E+01	0.133700E+01
15.600	0.157300E+00	0.145000E+00	0.848300E+00	0.172280E+01	0.123220E+01	0.179260E+01	0.126710E+01
15.800	0.157500E+00	0.135100E+00	0.803200E+00	0.172010E+01	0.126960E+01	0.188040E+01	0.119250E+01
16.200	0.159300E+00	0.115900E+00	0.706900E+00	0.171700E+01	0.133420E+01	0.203590E+01	0.103210E+01
16.400	0.160500E+00	0.106800E+00	0.657300E+00	0.171630E+01	0.136170E+01	0.210360E+01	0.949900E+00
16.600	0.161900E+00	0.981000E-01	0.607400E+00	0.171600E+01	0.138640E+01	0.216480E+01	0.868300E+00
16.800	0.163400E+00	0.898000E-01	0.557900E+00	0.171600E+01	0.140830E+01	0.221950E+01	0.787600E+00
17.000	0.164900E+00	0.821000E-01	0.509200E+00	0.171630E+01	0.142770E+01	0.226800E+01	0.709100E+00
17.200	0.166500E+00	0.747000E-01	0.461600E+00	0.171700E+01	0.144470E+01	0.231040E+01	0.633800E+00
17.400	0.168100E+00	0.678000E-01	0.415100E+00	0.171810E+01	0.145950E+01	0.234690E+01	0.562500E+00
17.600	0.170200E+00	0.612000E-01	0.369500E+00	0.171980E+01	0.147230E+01	0.237710E+01	0.496700E+00
17.800	0.173400E+00	0.547000E-01	0.323600E+00	0.172270E+01	0.148320E+01	0.239840E+01	0.439300E+00
18.000	0.181500E+00	0.472000E-01	0.270600E+00	0.172750E+01	0.149080E+01	0.239490E+01	0.403500E+00
18.600	0.175800E+00	0.379000E-01	0.241100E+00	0.292800E+00	0.175000E+00	0.272700E+00	0.619800E+00
19.000	0.158900E+00	0.377000E-01	0.232700E+00	0.230200E+00	0.131900E+00	0.302500E+00	0.633600E+00
19.200	0.152100E+00	0.372000E-01	0.226800E+00	0.213500E+00	0.122300E+00	0.298800E+00	0.643700E+00
19.400	0.145900E+00	0.365000E-01	0.220700E+00	0.200100E+00	0.115200E+00	0.291500E+00	0.655200E+00
19.800	0.134600E+00	0.350000E-01	0.208600E+00	0.179000E+00	0.104800E+00	0.273000E+00	0.683100E+00
20.000	0.129400E+00	0.342000E-01	0.202800E+00	0.170200E+00	0.100600E+00	0.263200E+00	0.700200E+00
20.400	0.119800E+00	0.325000E-01	0.191600E+00	0.154900E+00	0.933000E-01	0.243800E+00	0.742400E+00
20.600	0.115300E+00	0.317000E-01	0.186200E+00	0.148100E+00	0.901000E-01	0.234500E+00	0.768300E+00
21.600	0.959000E-01	0.276000E-01	0.162100E+00	0.120300E+00	0.763000E-01	0.193100E+00	0.962700E+00
22.400	0.833000E-01	0.245000E-01	0.145600E+00	0.103200E+00	0.673000E-01	0.166000E+00	0.119530E+01
22.600	0.805000E-01	0.238000E-01	0.141900E+00	0.995000E-01	0.652000E-01	0.160000E+00	0.125700E+01
22.800	0.778000E-01	0.231000E-01	0.138200E+00	0.959000E-01	0.633000E-01	0.154200E+00	0.131690E+01
23.000	0.752000E-01	0.224000E-01	0.134700E+00	0.926000E-01	0.614000E-01	0.148700E+00	0.137370E+01

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3	23.200	0.727000E-01	0.217000E-01	0.131300E+00	0.894000E-01	0.595000E-01	0.143500E+00	0.142630E+01
4	23.800	0.659000E-01	0.198000E-01	0.121700E+00	0.806000E-01	0.544000E-01	0.129100E+00	0.155720E+01
5	24.000	0.638000E-01	0.192000E-01	0.118800E+00	0.779000E-01	0.528000E-01	0.124700E+00	0.159280E+01
6	24.200	0.618000E-01	0.187000E-01	0.115900E+00	0.754000E-01	0.513000E-01	0.120500E+00	0.162510E+01
7	24.400	0.599000E-01	0.181000E-01	0.113100E+00	0.729000E-01	0.498000E-01	0.116400E+00	0.165450E+01
8	24.600	0.580000E-01	0.175000E-01	0.110400E+00	0.706000E-01	0.484000E-01	0.112500E+00	0.168160E+01
9	24.800	0.562000E-01	0.170000E-01	0.107800E+00	0.684000E-01	0.470000E-01	0.108700E+00	0.170670E+01
10	25.000	0.545000E-01	0.165000E-01	0.105200E+00	0.662000E-01	0.457000E-01	0.105100E+00	0.173010E+01
11	25.200	0.529000E-01	0.160000E-01	0.102800E+00	0.642000E-01	0.444000E-01	0.101600E+00	0.175220E+01
12	25.400	0.513000E-01	0.155000E-01	0.100400E+00	0.622000E-01	0.432000E-01	0.983000E-01	0.177310E+01
13	25.600	0.498000E-01	0.151000E-01	0.981000E-01	0.603000E-01	0.420000E-01	0.950000E-01	0.179290E+01
14	25.800	0.483000E-01	0.146000E-01	0.959000E-01	0.585000E-01	0.408000E-01	0.919000E-01	0.181190E+01
15	26.000	0.469000E-01	0.142000E-01	0.937000E-01	0.568000E-01	0.397000E-01	0.888000E-01	0.183000E+01
16	26.200	0.455000E-01	0.138000E-01	0.916000E-01	0.551000E-01	0.386000E-01	0.859000E-01	0.184750E+01
17	26.400	0.442000E-01	0.134000E-01	0.895000E-01	0.535000E-01	0.376000E-01	0.830000E-01	0.186440E+01
18	26.600	0.430000E-01	0.130000E-01	0.876000E-01	0.520000E-01	0.365000E-01	0.802000E-01	0.188070E+01
19	26.800	0.417000E-01	0.126000E-01	0.856000E-01	0.505000E-01	0.356000E-01	0.774000E-01	0.189660E+01
20	27.000	0.406000E-01	0.122000E-01	0.838000E-01	0.491000E-01	0.346000E-01	0.748000E-01	0.191200E+01
21	27.200	0.394000E-01	0.119000E-01	0.820000E-01	0.477000E-01	0.337000E-01	0.722000E-01	0.192690E+01
22	27.400	0.383000E-01	0.115000E-01	0.802000E-01	0.464000E-01	0.328000E-01	0.697000E-01	0.194150E+01
23	27.600	0.373000E-01	0.112000E-01	0.785000E-01	0.451000E-01	0.319000E-01	0.672000E-01	0.195560E+01
24	27.800	0.363000E-01	0.109000E-01	0.768000E-01	0.439000E-01	0.311000E-01	0.648000E-01	0.196940E+01
25	28.000	0.353000E-01	0.106000E-01	0.752000E-01	0.427000E-01	0.303000E-01	0.624000E-01	0.198290E+01
26	28.400	0.334000E-01	0.100000E-01	0.721000E-01	0.404000E-01	0.288000E-01	0.578000E-01	0.200880E+01
27	29.000	0.309000E-01	0.910000E-02	0.678000E-01	0.374000E-01	0.267000E-01	0.512000E-01	0.204550E+01
28	29.200	0.301000E-01	0.890000E-02	0.665000E-01	0.364000E-01	0.260000E-01	0.491000E-01	0.205710E+01
29	29.400	0.293000E-01	0.860000E-02	0.651000E-01	0.355000E-01	0.253000E-01	0.470000E-01	0.206850E+01
30	29.600	0.285000E-01	0.840000E-02	0.638000E-01	0.346000E-01	0.247000E-01	0.450000E-01	0.207970E+01
31	29.800	0.278000E-01	0.820000E-02	0.626000E-01	0.337000E-01	0.241000E-01	0.430000E-01	0.209050E+01
32	30.000	0.271000E-01	0.790000E-02	0.614000E-01	0.329000E-01	0.235000E-01	0.410000E-01	0.210110E+01
33	30.600	0.251000E-01	0.730000E-02	0.579000E-01	0.305000E-01	0.219000E-01	0.353000E-01	0.213160E+01
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Table 4: $(4)^1\Sigma^+ - (1-7)^1\Pi$ transitions

R	4-1	4-2	4-3	4-4	4-5	4-6	4-7
4.400	0.289410E+01	-0.615400E+00	-0.219550E+01	0.497920E+01	-0.257330E+01	0.285100E+00	0.601800E+00
4.600	0.299310E+01	-0.448500E+00	-0.253780E+01	0.482190E+01	-0.245060E+01	0.270000E+00	0.561700E+00
4.800	0.308220E+01	-0.281100E+00	-0.286410E+01	0.467270E+01	-0.230670E+01	0.264000E+00	0.519000E+00
5.000	0.316360E+01	-0.115600E+00	-0.314840E+01	0.455330E+01	-0.215010E+01	0.264500E+00	0.474600E+00
5.200	0.323800E+01	-0.457000E-01	-0.337100E+01	0.448320E+01	-0.198690E+01	0.268000E+00	0.429600E+00
5.400	0.330500E+01	-0.200600E+00	-0.352370E+01	0.447260E+01	-0.182260E+01	0.272500E+00	0.385600E+00
5.600	0.336420E+01	-0.347800E+00	-0.360670E+01	0.452080E+01	-0.166320E+01	0.277000E+00	0.344500E+00
5.800	0.341530E+01	-0.486700E+00	-0.362350E+01	0.462060E+01	-0.151470E+01	0.281400E+00	0.308700E+00
6.000	0.345810E+01	-0.617500E+00	-0.357760E+01	0.476250E+01	-0.138170E+01	0.285800E+00	0.280200E+00
6.200	0.349240E+01	-0.741100E+00	-0.347220E+01	0.493700E+01	-0.126680E+01	0.290300E+00	0.260300E+00
6.800	0.354560E+01	-0.107850E+01	-0.285980E+01	0.554910E+01	-0.103360E+01	0.297700E+00	0.259800E+00
7.000	0.354700E+01	-0.118240E+01	-0.259850E+01	0.574520E+01	-0.992100E+00	0.294000E+00	0.279100E+00
7.400	0.352530E+01	-0.137590E+01	-0.211610E+01	0.608710E+01	-0.976300E+00	0.250900E+00	0.340700E+00
7.600	0.349220E+01	-0.145580E+01	-0.197790E+01	0.623950E+01	-0.103140E+01	0.159200E+00	0.369500E+00
7.800	0.314270E+01	-0.136050E+01	-0.223280E+01	0.606830E+01	-0.129070E+01	0.370200E+00	0.290800E+00
8.000	0.101050E+01	-0.415000E+00	-0.213570E+01	0.279510E+01	-0.111810E+01	0.131930E+01	0.110400E+00
8.200	0.532100E+00	-0.251900E+00	-0.194560E+01	0.202690E+01	-0.868500E+00	0.139820E+01	0.175200E+00
8.400	0.351900E+00	-0.219300E+00	-0.185240E+01	0.176870E+01	-0.693800E+00	0.141790E+01	0.192300E+00
8.600	0.243000E+00	-0.212500E+00	-0.179060E+01	0.163020E+01	-0.552000E+00	0.142400E+01	0.198000E+00
8.800	0.162900E+00	-0.213000E+00	-0.174460E+01	0.153830E+01	-0.432700E+00	0.142560E+01	0.197900E+00
9.000	0.988000E-01	-0.215300E+00	-0.170830E+01	0.147030E+01	-0.331400E+00	0.142500E+01	0.194000E+00
9.200	0.454000E-01	-0.218000E+00	-0.167880E+01	0.141730E+01	-0.245200E+00	0.142290E+01	0.187200E+00
9.400	-0.300000E-03	-0.220600E+00	-0.165430E+01	0.137490E+01	-0.171800E+00	0.141970E+01	0.178200E+00
9.800	-0.700000E-01	-0.226000E+00	-0.161600E+01	0.131350E+01	-0.559000E-01	0.141100E+01	0.155700E+00
10.000	-0.965000E-01	-0.229200E+00	-0.160080E+01	0.129180E+01	-0.980000E-02	0.140590E+01	0.143200E+00
10.200	-0.118000E+00	-0.232800E+00	-0.158750E+01	0.127490E+01	0.307000E-01	0.140050E+01	0.130600E+00
10.400	-0.134800E+00	-0.236700E+00	-0.157580E+01	0.126210E+01	0.671000E-01	0.139530E+01	0.118000E+00
10.600	-0.147400E+00	-0.241000E+00	-0.156540E+01	0.125260E+01	0.100800E+00	0.139040E+01	0.105700E+00
10.800	-0.156400E+00	-0.245400E+00	-0.155610E+01	0.124570E+01	0.133200E+00	0.138620E+01	0.939000E-01
11.000	-0.162300E+00	-0.249600E+00	-0.154760E+01	0.124080E+01	0.165500E+00	0.138320E+01	0.828000E-01
11.200	-0.165600E+00	-0.253300E+00	-0.153960E+01	0.123700E+01	0.198600E+00	0.138180E+01	0.720000E-01
11.400	-0.166900E+00	-0.256400E+00	-0.153200E+01	0.123370E+01	0.233500E+00	0.138260E+01	0.621000E-01
11.600	-0.166800E+00	-0.258500E+00	-0.152450E+01	0.122970E+01	0.270700E+00	0.138600E+01	0.530000E-01
11.800	-0.166000E+00	-0.259500E+00	-0.151690E+01	0.122390E+01	0.310800E+00	0.139310E+01	0.458000E-01
12.000	-0.165200E+00	-0.259000E+00	-0.150860E+01	0.121470E+01	0.353900E+00	0.140450E+01	0.418000E-01
12.200	-0.165200E+00	-0.256900E+00	-0.149940E+01	0.120010E+01	0.399700E+00	0.142140E+01	0.438000E-01
12.400	-0.167000E+00	-0.253000E+00	-0.148840E+01	0.117740E+01	0.447700E+00	0.144480E+01	0.587000E-01
12.600	-0.171600E+00	-0.246900E+00	-0.147460E+01	0.114250E+01	0.496600E+00	0.147580E+01	0.100600E+00
12.800	-0.180700E+00	-0.238100E+00	-0.145610E+01	0.108930E+01	0.544100E+00	0.151510E+01	0.200900E+00
13.000	-0.196100E+00	-0.225800E+00	-0.142900E+01	0.100860E+01	0.586100E+00	0.156180E+01	0.409400E+00
13.200	-0.219600E+00	-0.208800E+00	-0.138640E+01	0.887700E+00	0.615300E+00	0.161030E+01	0.687400E+00
13.400	-0.251200E+00	-0.185700E+00	-0.131790E+01	0.714800E+00	0.620000E+00	0.164670E+01	0.825300E+00
13.600	-0.286500E+00	-0.156900E+00	-0.121490E+01	0.494200E+00	0.588700E+00	0.164860E+01	0.775900E+00
13.800	-0.316500E+00	-0.126400E+00	-0.108530E+01	0.261300E+00	0.522000E+00	0.160210E+01	0.621900E+00
14.000	-0.335200E+00	-0.100000E+00	-0.953400E+00	0.614000E-01	0.436900E+00	0.151970E+01	0.440700E+00
14.200	-0.343000E+00	-0.803000E-01	-0.838700E+00	-0.856000E-01	0.352000E+00	0.142520E+01	0.275200E+00
14.400	-0.343400E+00	-0.668000E-01	-0.746200E+00	-0.185000E+00	0.276100E+00	0.133340E+01	0.137700E+00
14.600	-0.339200E+00	-0.580000E-01	-0.673100E+00	-0.249200E+00	0.211100E+00	0.124960E+01	0.257000E-01
14.800	-0.332500E+00	-0.523000E-01	-0.614900E+00	-0.289200E+00	0.156400E+00	0.117400E+01	0.660000E-01
15.000	-0.324200E+00	-0.488000E-01	-0.567800E+00	-0.312500E+00	0.110700E+00	0.110560E+01	0.142200E+00
15.200	-0.315100E+00	-0.467000E-01	-0.528900E+00	-0.324500E+00	0.727000E-01	0.104340E+01	0.206500E+00
15.400	-0.305400E+00	-0.455000E-01	-0.496100E+00	-0.328700E+00	0.412000E-01	0.986200E+00	0.261300E+00
15.600	-0.295400E+00	-0.448000E-01	-0.468000E+00	-0.327300E+00	0.153000E-01	0.933400E+00	0.308500E+00
15.800	-0.285300E+00	-0.446000E-01	-0.443500E+00	-0.322000E+00	0.590000E-02	0.884200E+00	0.347700E+00
16.200	-0.265200E+00	-0.446000E-01	-0.402700E+00	-0.303900E+00	-0.360000E-01	0.796600E+00	0.414200E+00
16.400	-0.255200E+00	-0.447000E-01	-0.385500E+00	-0.292300E+00	-0.460000E-01	0.757500E+00	0.441200E+00
16.600	-0.245500E+00	-0.448000E-01	-0.369800E+00	-0.279500E+00	-0.533000E-01	0.721500E+00	0.464800E+00
16.800	-0.235800E+00	-0.449000E-01	-0.355600E+00	-0.265500E+00	-0.578000E-01	0.689100E+00	0.485200E+00
17.000	-0.226400E+00	-0.449000E-01	-0.342600E+00	-0.250400E+00	-0.596000E-01	0.660400E+00	0.503000E+00
17.200	-0.217000E+00	-0.449000E-01	-0.330800E+00	-0.233600E+00	-0.586000E-01	0.636300E+00	0.518400E+00
17.400	-0.207700E+00	-0.449000E-01	-0.320300E+00	-0.214000E+00	-0.538000E-01	0.618500E+00	0.531400E+00
17.600	-0.198000E+00	-0.449000E-01	-0.311400E+00	-0.188800E+00	-0.429000E-01	0.610900E+00	0.541900E+00
17.800	-0.187200E+00	-0.452000E-01	-0.305200E+00	-0.149600E+00	0.188000E-01	0.625300E+00	0.548600E+00
18.000	-0.171100E+00	-0.468000E-01	-0.306800E+00	-0.564000E-01	0.531000E-01	0.717800E+00	0.543800E+00
18.600	-0.152200E+00	-0.403000E-01	-0.209200E+00	-0.170310E+01	0.149630E+01	0.253780E+01	0.147800E+00
19.000	-0.153700E+00	-0.320000E-01	-0.143700E+00	-0.171380E+01	0.150260E+01	0.256160E+01	0.715000E-01
19.200	-0.152000E+00	-0.287000E-01	-0.116200E+00	-0.171690E+01	0.150220E+01	0.257370E+01	0.333000E-01
19.400	-0.149300E+00	-0.257000E-01	-0.911000E-01	-0.171950E+01	0.150010E+01	0.258540E+01	-0.170000E-02
19.800	-0.141000E+00	-0.205000E-01	-0.470000E-01	-0.172400E+01	0.149140E+01	0.260800E+01	-0.650000E-01
20.000	-0.135300E+00	-0.183000E-01	-0.277000E-01	-0.172580E+01	0.148470E+01	0.261830E+01	-0.921000E-01
20.400	-0.119900E+00	-0.143000E-01	-0.600000E-02	-0.172790E+01	0.146680E+01	0.263720E+01	-0.137300E+00
20.600	-0.109800E+00	-0.126000E-01	0.205000E-01	-0.172760E+01	0.145540E+01	0.264580E+01	-0.155200E+00
21.600	0.220000E-01	-0.510000E-02	0.731000E-01	-0.169670E+01	0.136860E+01	0.267730E+01	-0.190600E+00
22.400	0.129100E+00	-0.800000E-03	0.930000E-01	-0.158170E+01	0.124800E+01	0.267580E+01	-0.147800E+00
22.600	0.185300E+00	0.230000E-02	0.949000E-01	-0.152790E+01	0.120750E+01	0.266760E+01	-0.128700E+00
22.800	0.250800E+00	0.400000E-02	0.954000E-01	-0.145940E+01	0.116190E+01	0.265460E+01	-0.107600E+00
23.000	0.326300E+00	0.590000E-02	0.947000E-01	-0.137440E+01	0.111080E+01	0.263540E+01	-0.856000E-01

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3	23.200	0.411700E+00	0.780000E-02	0.926000E-01	-0.127130E+01	0.105430E+01	0.260900E+01	-0.636000E-01	
4	23.800	0.715400E+00	0.139000E-01	0.798000E-01	-0.857200E+00	0.856800E+00	0.247750E+01	-0.630000E-02	
5	24.000	0.823700E+00	0.158000E-01	0.741000E-01	-0.693900E+00	0.786300E+00	0.241670E+01	0.800000E-02	
6	24.200	0.929800E+00	0.176000E-01	0.679000E-01	-0.526800E+00	0.716000E+00	0.234890E+01	0.197000E-01	
7	24.400	0.103060E+01	0.192000E-01	0.616000E-01	-0.361700E+00	0.648000E+00	0.227640E+01	0.287000E-01	
8	24.600	0.112370E+01	0.205000E-01	0.556000E-01	-0.203600E+00	0.583800E+00	0.220180E+01	0.353000E-01	
9	24.800	0.120780E+01	0.216000E-01	0.499000E-01	-0.561000E-01	0.524500E+00	0.212710E+01	0.399000E-01	
10	25.000	0.128250E+01	0.225000E-01	0.447000E-01	0.786000E-01	0.470600E+00	0.205390E+01	0.429000E-01	
11	25.200	0.134800E+01	0.232000E-01	0.400000E-01	0.199800E+00	0.422200E+00	0.198340E+01	0.445000E-01	
12	25.400	0.140490E+01	0.236000E-01	0.359000E-01	0.307500E+00	0.379100E+00	0.191620E+01	0.452000E-01	
13	25.600	0.145410E+01	0.239000E-01	0.322000E-01	0.402500E+00	0.340800E+00	0.185280E+01	0.452000E-01	
14	25.800	0.149660E+01	0.241000E-01	0.290000E-01	0.485900E+00	0.306900E+00	0.179310E+01	0.446000E-01	
15	26.000	0.153320E+01	0.241000E-01	0.263000E-01	0.559000E+00	0.277000E+00	0.173710E+01	0.438000E-01	
16	26.200	0.156480E+01	0.241000E-01	0.238000E-01	0.622900E+00	0.250500E+00	0.168450E+01	0.427000E-01	
17	26.400	0.159210E+01	0.239000E-01	0.217000E-01	0.678800E+00	0.227200E+00	0.163510E+01	0.414000E-01	
18	26.600	0.161580E+01	0.238000E-01	0.199000E-01	0.727700E+00	0.206400E+00	0.158860E+01	0.401000E-01	
19	26.800	0.163630E+01	0.235000E-01	0.184000E-01	0.770500E+00	0.188100E+00	0.154470E+01	0.389000E-01	
20	27.000	0.165420E+01	0.233000E-01	0.170000E-01	0.808200E+00	0.171700E+00	0.150320E+01	0.375000E-01	
21	27.200	0.166990E+01	0.230000E-01	0.158000E-01	0.841200E+00	0.157100E+00	0.146370E+01	0.363000E-01	
22	27.400	0.168360E+01	0.227000E-01	0.148000E-01	0.870300E+00	0.144100E+00	0.142610E+01	0.350000E-01	
23	27.600	0.169560E+01	0.224000E-01	0.139000E-01	0.896000E+00	0.132400E+00	0.139030E+01	0.338000E-01	
24	27.800	0.170620E+01	0.220000E-01	0.131000E-01	0.918700E+00	0.121900E+00	0.135590E+01	0.327000E-01	
25	28.000	0.171560E+01	0.217000E-01	0.124000E-01	0.938900E+00	0.112500E+00	0.132300E+01	0.316000E-01	
26	28.400	0.173130E+01	0.209000E-01	0.112000E-01	0.972700E+00	0.962000E-01	0.126070E+01	0.297000E-01	
27	29.000	0.174890E+01	0.199000E-01	0.990000E-02	0.101090E+01	0.771000E-01	0.117480E+01	0.272000E-01	
28	29.200	0.175370E+01	0.195000E-01	0.960000E-02	0.102110E+01	0.718000E-01	0.114790E+01	0.264000E-01	
29	29.400	0.175790E+01	0.192000E-01	0.930000E-02	0.103020E+01	0.670000E-01	0.112170E+01	0.257000E-01	
30	29.600	0.176170E+01	0.188000E-01	0.900000E-02	0.103850E+01	0.626000E-01	0.109610E+01	0.251000E-01	
31	29.800	0.176500E+01	0.185000E-01	0.870000E-02	0.104580E+01	0.585000E-01	0.107120E+01	0.245000E-01	
32	30.000	0.176830E+01	0.181000E-01	0.850000E-02	0.105260E+01	0.548000E-01	0.104680E+01	0.239000E-01	
33	30.600	0.177600E+01	0.172000E-01	0.780000E-02	0.106910E+01	0.452000E-01	0.977000E+00	0.224000E-01	
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Table 5: $(1)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
4.400	0.137700E+00	0.220750E+01	-0.226380E+01	-0.111120E+01	0.240000E-01	-0.319500E+00	0.375800E+00
4.600	0.176200E+00	0.226430E+01	-0.194390E+01	-0.157890E+01	0.564000E-01	-0.331900E+00	0.364200E+00
4.800	0.211500E+00	0.231800E+01	0.489000E-01	-0.248120E+01	0.147200E+00	-0.336400E+00	0.352100E+00
5.000	0.243900E+00	0.236710E+01	0.483900E+00	-0.240610E+01	0.253200E+00	-0.333600E+00	0.339200E+00
5.200	0.273500E+00	0.241080E+01	0.583900E+00	-0.234900E+01	0.381800E+00	-0.323200E+00	0.324900E+00
5.400	0.300600E+00	0.244920E+01	0.621200E+00	-0.229280E+01	0.542100E+00	-0.303800E+00	0.308800E+00
5.600	0.325600E+00	0.248250E+01	0.637200E+00	-0.222120E+01	0.739000E+00	-0.273000E+00	0.290900E+00
5.800	0.349000E+00	0.251140E+01	0.644200E+00	-0.212490E+01	0.959400E+00	-0.228300E+00	0.271400E+00
6.000	0.371200E+00	0.253640E+01	0.647600E+00	-0.201350E+01	0.116310E+01	-0.170100E+00	0.250600E+00
6.200	0.392800E+00	0.255840E+01	0.650300E+00	-0.191730E+01	0.130580E+01	-0.105800E+00	0.229700E+00
6.800	0.458200E+00	0.261220E+01	0.676000E+00	-0.188860E+01	0.130010E+01	-0.192000E-01	0.175200E+00
7.000	0.481500E+00	0.262800E+01	0.698200E+00	-0.193930E+01	0.119580E+01	-0.352000E-01	0.161900E+00
7.400	0.532500E+00	0.265890E+01	0.787000E+00	-0.202530E+01	0.932300E+00	-0.812000E-01	0.143200E+00
7.600	0.560700E+00	0.267460E+01	0.870400E+00	-0.203270E+01	0.804000E+00	-0.101100E+00	0.137300E+00
7.800	0.591300E+00	0.269090E+01	0.100130E+01	-0.199840E+01	0.690500E+00	-0.117200E+00	0.133500E+00
8.000	0.624300E+00	0.270770E+01	0.120750E+01	-0.189460E+01	0.594400E+00	-0.129800E+00	0.131100E+00
8.200	0.660300E+00	0.272520E+01	0.150890E+01	-0.166660E+01	0.514700E+00	-0.139200E+00	0.130000E+00
8.400	0.699300E+00	0.274340E+01	0.183590E+01	-0.128620E+01	0.449600E+00	-0.146100E+00	0.130300E+00
8.600	0.741800E+00	0.276190E+01	0.204520E+01	-0.885400E+00	0.396500E+00	-0.150900E+00	0.131300E+00
8.800	0.787900E+00	0.278070E+01	0.212830E+01	-0.596000E+00	0.353200E+00	-0.154000E+00	0.132900E+00
9.000	0.838100E+00	0.279940E+01	0.214800E+01	-0.412100E+00	0.318000E+00	-0.155500E+00	0.135000E+00
9.200	0.892300E+00	0.281760E+01	0.213990E+01	-0.294500E+00	0.289300E+00	-0.155700E+00	0.137100E+00
9.400	0.950900E+00	0.283480E+01	0.211830E+01	-0.216100E+00	0.266000E+00	-0.154800E+00	0.138200E+00
9.800	0.108150E+01	0.286440E+01	0.205470E+01	-0.122300E+00	0.232000E+00	-0.150100E+00	0.124700E+00
10.000	0.115320E+01	0.287590E+01	0.201650E+01	-0.932000E-01	0.220000E+00	-0.146600E+00	0.132600E+00
10.200	0.122900E+01	0.288470E+01	0.197510E+01	-0.710000E-01	0.210700E+00	-0.142500E+00	0.136200E+00
10.400	0.130830E+01	0.289040E+01	0.193100E+01	-0.537000E-01	0.203700E+00	-0.138200E+00	0.138600E+00
10.600	0.139050E+01	0.289310E+01	0.188430E+01	-0.399000E-01	0.198500E+00	-0.133900E+00	0.139900E+00
10.800	0.147470E+01	0.289280E+01	0.183510E+01	-0.285000E-01	0.194900E+00	-0.130100E+00	0.139900E+00
11.000	0.156000E+01	0.288980E+01	0.178340E+01	-0.190000E-01	0.192800E+00	-0.128000E+00	0.137800E+00
11.200	0.164540E+01	0.288440E+01	0.172920E+01	-0.110000E-01	0.191800E+00	-0.129200E+00	0.131800E+00
11.400	0.172970E+01	0.287740E+01	0.167210E+01	-0.400000E-02	0.192000E+00	-0.136700E+00	0.118100E+00
11.600	0.181200E+01	0.286930E+01	0.161210E+01	0.220000E-02	0.193300E+00	-0.151100E+00	0.904000E-01
11.800	0.189130E+01	0.286090E+01	0.154900E+01	0.780000E-02	0.195400E+00	-0.162000E+00	0.547000E-01
12.000	0.196690E+01	0.285270E+01	0.148280E+01	0.130000E-01	0.198300E+00	-0.162000E+00	0.321000E-01
12.200	0.203830E+01	0.284520E+01	0.141340E+01	0.180000E-01	0.201900E+00	-0.156900E+00	0.245000E-01
12.400	0.210500E+01	0.283860E+01	0.134110E+01	0.230000E-01	0.205800E+00	-0.149900E+00	0.252000E-01
12.600	0.216700E+01	0.283310E+01	0.126630E+01	0.279000E-01	0.209900E+00	-0.141600E+00	0.304000E-01
12.800	0.222430E+01	0.282840E+01	0.118950E+01	0.329000E-01	0.213900E+00	-0.132100E+00	0.380000E-01
13.000	0.227680E+01	0.282440E+01	0.111170E+01	0.381000E-01	0.217700E+00	-0.121400E+00	0.471000E-01
13.200	0.232490E+01	0.282070E+01	0.103370E+01	0.434000E-01	0.221000E+00	-0.109300E+00	0.568000E-01
13.400	0.236890E+01	0.281690E+01	0.956700E+00	0.489000E-01	0.223800E+00	-0.959000E-01	0.663000E-01
13.600	0.240890E+01	0.281270E+01	0.881700E+00	0.546000E-01	0.226100E+00	-0.815000E-01	0.744000E-01
13.800	0.244540E+01	0.280790E+01	0.809600E+00	0.605000E-01	0.227800E+00	-0.671000E-01	0.805000E-01
14.000	0.247860E+01	0.280240E+01	0.741300E+00	0.665000E-01	0.228900E+00	-0.535000E-01	0.842000E-01
14.200	0.250890E+01	0.279620E+01	0.677400E+00	0.727000E-01	0.229600E+00	-0.414000E-01	0.859000E-01
14.400	0.253650E+01	0.278940E+01	0.618100E+00	0.790000E-01	0.229700E+00	-0.311000E-01	0.859000E-01
14.600	0.256180E+01	0.278200E+01	0.563700E+00	0.853000E-01	0.229500E+00	-0.225000E-01	0.848000E-01
14.800	0.258490E+01	0.277410E+01	0.514200E+00	0.918000E-01	0.228800E+00	-0.153000E-01	0.831000E-01
15.000	0.260600E+01	0.276600E+01	0.469300E+00	0.983000E-01	0.227700E+00	-0.950000E-02	0.811000E-01
15.200	0.262550E+01	0.275770E+01	0.428900E+00	0.104800E+00	0.226300E+00	-0.460000E-02	0.788000E-01
15.400	0.264340E+01	0.274940E+01	0.392700E+00	0.111400E+00	0.224600E+00	-0.600000E-03	0.765000E-01
15.600	0.265990E+01	0.274110E+01	0.360200E+00	0.118000E+00	0.222500E+00	0.260000E-02	0.741000E-01
15.800	0.267510E+01	0.273300E+01	0.331200E+00	0.124500E+00	0.220000E+00	0.530000E-02	0.717000E-01
16.200	0.270240E+01	0.271740E+01	0.282100E+00	0.137700E+00	0.214200E+00	0.940000E-02	0.670000E-01
16.400	0.271460E+01	0.271000E+01	0.261000E+00	0.144200E+00	0.210800E+00	0.109000E-01	0.647000E-01
16.600	0.272600E+01	0.270280E+01	0.242800E+00	0.150800E+00	0.207000E+00	0.121000E-01	0.625000E-01
16.800	0.273670E+01	0.269590E+01	0.226200E+00	0.157300E+00	0.202800E+00	0.131000E-01	0.603000E-01
17.000	0.274670E+01	0.268930E+01	0.211200E+00	0.163800E+00	0.198300E+00	0.139000E-01	0.580000E-01
17.200	0.275610E+01	0.268300E+01	0.197700E+00	0.170300E+00	0.193400E+00	0.146000E-01	0.557000E-01
17.400	0.276490E+01	0.267690E+01	0.185600E+00	0.176800E+00	0.188000E+00	0.151000E-01	0.534000E-01
17.600	0.277320E+01	0.267120E+01	0.174600E+00	0.183100E+00	0.182300E+00	0.155000E-01	0.511000E-01
17.800	0.278100E+01	0.266560E+01	0.164600E+00	0.189400E+00	0.176200E+00	0.158000E-01	0.488000E-01
18.000	0.278840E+01	0.266030E+01	0.155600E+00	0.195500E+00	0.169800E+00	0.160000E-01	0.465000E-01
18.600	0.280840E+01	0.264580E+01	0.132900E+00	0.212400E+00	0.148800E+00	0.163000E-01	0.397000E-01
19.000	0.282010E+01	0.263710E+01	0.120700E+00	0.222100E+00	0.134000E+00	0.164000E-01	0.353000E-01
19.200	0.282560E+01	0.263300E+01	0.115300E+00	0.226400E+00	0.126700E+00	0.164000E-01	0.331000E-01
19.400	0.283080E+01	0.262910E+01	0.110300E+00	0.230300E+00	0.119500E+00	0.165000E-01	0.310000E-01
19.800	0.284050E+01	0.262170E+01	0.101300E+00	0.236800E+00	0.105700E+00	0.165000E-01	0.275000E-01
20.000	0.284500E+01	0.261830E+01	0.973000E-01	0.239500E+00	0.993000E-01	0.165000E-01	0.259000E-01
20.400	0.285350E+01	0.261170E+01	0.901000E-01	0.243900E+00	0.873000E-01	0.165000E-01	0.230000E-01
20.600	0.287550E+01	0.260870E+01	0.868000E-01	0.245700E+00	0.819000E-01	0.166000E-01	0.218000E-01
21.600	0.287520E+01	0.259480E+01	0.730000E-01	0.251300E+00	0.599000E-01	0.171000E-01	0.169000E-01
22.400	0.288710E+01	0.258540E+01	0.643000E-01	0.253300E+00	0.476000E-01	0.176000E-01	0.137000E-01
22.600	0.288980E+01	0.258320E+01	0.623000E-01	0.253700E+00	0.451000E-01	0.177000E-01	0.128000E-01
22.800	0.289240E+01	0.258110E+01	0.605000E-01	0.253900E+00	0.427000E-01	0.178000E-01	0.120000E-01
23.000	0.289490E+01	0.257910E+01	0.587000E-01	0.254200E+00	0.406000E-01	0.180000E-01	0.112000E-01

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3	23.200	0.289730E+01	0.257720E+01	0.570000E-01	0.254300E+00	0.386000E-01	0.181000E-01	0.103000E-01
4	23.800	0.290420E+01	0.257160E+01	0.523000E-01	0.254700E+00	0.335000E-01	0.185000E-01	0.790000E-02
5	24.000	0.290630E+01	0.256990E+01	0.509000E-01	0.254800E+00	0.321000E-01	0.186000E-01	0.710000E-02
6	24.200	0.290830E+01	0.256820E+01	0.495000E-01	0.254800E+00	0.307000E-01	0.188000E-01	0.620000E-02
7	24.400	0.291030E+01	0.256660E+01	0.481000E-01	0.254900E+00	0.295000E-01	0.189000E-01	0.560000E-02
8	24.600	0.291220E+01	0.256510E+01	0.468000E-01	0.254900E+00	0.283000E-01	0.190000E-01	0.510000E-02
9	24.800	0.291410E+01	0.256350E+01	0.456000E-01	0.254900E+00	0.273000E-01	0.192000E-01	0.460000E-02
10	25.000	0.291590E+01	0.256210E+01	0.443000E-01	0.254900E+00	0.262000E-01	0.193000E-01	0.410000E-02
11	25.200	0.291760E+01	0.256060E+01	0.432000E-01	0.254900E+00	0.253000E-01	0.194000E-01	0.370000E-02
12	25.400	0.291930E+01	0.255920E+01	0.420000E-01	0.254900E+00	0.244000E-01	0.196000E-01	0.340000E-02
13	25.600	0.292100E+01	0.255780E+01	0.409000E-01	0.254900E+00	0.236000E-01	0.197000E-01	0.300000E-02
14	25.800	0.292260E+01	0.255600E+01	0.398000E-01	0.254900E+00	0.228000E-01	0.199000E-01	0.270000E-02
15	26.000	0.292410E+01	0.255520E+01	0.388000E-01	0.254900E+00	0.221000E-01	0.200000E-01	0.250000E-02
16	26.200	0.292560E+01	0.255410E+01	0.378000E-01	0.254900E+00	0.214000E-01	0.202000E-01	0.230000E-02
17	26.400	0.292710E+01	0.255290E+01	0.368000E-01	0.254900E+00	0.207000E-01	0.203000E-01	0.210000E-02
18	26.600	0.292850E+01	0.255170E+01	0.358000E-01	0.254800E+00	0.201000E-01	0.204000E-01	0.190000E-02
19	26.800	0.292980E+01	0.255060E+01	0.349000E-01	0.254800E+00	0.195000E-01	0.206000E-01	0.170000E-02
20	27.000	0.293120E+01	0.254950E+01	0.340000E-01	0.254800E+00	0.189000E-01	0.207000E-01	0.160000E-02
21	27.200	0.293250E+01	0.254840E+01	0.331000E-01	0.254800E+00	0.183000E-01	0.209000E-01	0.140000E-02
22	27.400	0.293370E+01	0.254730E+01	0.323000E-01	0.254700E+00	0.178000E-01	0.211000E-01	0.130000E-02
23	27.600	0.293490E+01	0.254630E+01	0.314000E-01	0.254700E+00	0.173000E-01	0.212000E-01	0.120000E-02
24	27.800	0.293610E+01	0.254530E+01	0.306000E-01	0.254700E+00	0.168000E-01	0.214000E-01	0.110000E-02
25	28.000	0.293730E+01	0.254440E+01	0.298000E-01	0.254700E+00	0.163000E-01	0.216000E-01	0.110000E-02
26	28.400	0.293950E+01	0.254250E+01	0.283000E-01	0.254600E+00	0.153000E-01	0.220000E-01	0.900000E-03
27	29.000	0.294260E+01	0.254000E+01	0.262000E-01	0.254500E+00	0.140000E-01	0.225000E-01	0.700000E-03
28	29.200	0.294350E+01	0.253910E+01	0.255000E-01	0.254500E+00	0.135000E-01	0.227000E-01	0.700000E-03
29	29.400	0.294450E+01	0.253830E+01	0.248000E-01	0.254500E+00	0.131000E-01	0.229000E-01	0.600000E-03
30	29.600	0.294540E+01	0.253750E+01	0.242000E-01	0.254400E+00	0.127000E-01	0.231000E-01	0.600000E-03
31	29.800	0.294630E+01	0.253680E+01	0.236000E-01	0.254400E+00	0.123000E-01	0.232000E-01	0.600000E-03
32	30.000	0.294660E+01	0.253550E+01	0.230000E-01	0.254300E+00	0.119000E-01	0.234000E-01	0.500000E-03
33	30.600	0.294970E+01	0.253390E+01	0.213000E-01	0.254300E+00	0.107000E-01	0.239000E-01	0.400000E-03
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Table 6: $(2)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	2-1	2-2	2-3	2-4	2-5	2-6	2-7
4.400	-0.591200E+00	0.767300E+00	0.129800E+00	-0.519200E+00	-0.243200E+00	0.187610E+01	0.162800E+00
4.600	-0.432700E+00	0.955400E+00	0.366800E+00	-0.794600E+00	-0.261500E+00	0.191420E+01	0.131200E+00
4.800	0.580000E-01	0.126930E+01	0.153110E+01	-0.367300E+00	-0.322500E+00	0.180940E+01	-0.325000E-01
5.000	0.485400E+00	0.159510E+01	0.243130E+01	-0.129200E+00	-0.371700E+00	0.149770E+01	-0.128700E+00
5.200	0.889700E+00	0.174240E+01	0.293250E+01	-0.289000E-01	-0.321400E+00	0.118550E+01	-0.267200E+00
5.400	0.110160E+01	0.176290E+01	0.309930E+01	0.270000E-02	-0.208600E+00	0.100070E+01	-0.356200E+00
5.600	0.120960E+01	0.173480E+01	0.312240E+01	0.145000E-01	-0.851000E-01	0.900500E+00	-0.414200E+00
5.800	0.126580E+01	0.168880E+01	0.308940E+01	0.694000E-01	0.241000E-01	0.840500E+00	-0.454100E+00
6.000	0.129340E+01	0.163610E+01	0.303420E+01	0.151000E+00	0.108900E+00	0.797300E+00	-0.482500E+00
6.200	0.130320E+01	0.158150E+01	0.297070E+01	0.242200E+00	0.173700E+00	0.759400E+00	-0.502600E+00
6.800	0.127040E+01	0.142450E+01	0.277930E+01	0.422000E+00	0.386700E+00	0.639100E+00	-0.528500E+00
7.000	0.124590E+01	0.137690E+01	0.272190E+01	0.424100E+00	0.477800E+00	0.595100E+00	-0.528000E+00
7.400	0.118360E+01	0.128990E+01	0.262280E+01	0.326400E+00	0.649900E+00	0.510400E+00	-0.514700E+00
7.600	0.114720E+01	0.125040E+01	0.258160E+01	0.218900E+00	0.719100E+00	0.473200E+00	-0.502400E+00
7.800	0.110820E+01	0.121330E+01	0.254270E+01	0.520000E-01	0.774200E+00	0.440300E+00	-0.487100E+00
8.000	0.106720E+01	0.117860E+01	0.249220E+01	0.212200E+00	0.815700E+00	0.411100E+00	-0.467600E+00
8.200	0.102450E+01	0.114600E+01	0.238640E+01	0.619200E+00	0.844400E+00	0.385400E+00	-0.443500E+00
8.400	0.980700E+00	0.111530E+01	0.216490E+01	0.111750E+01	0.861800E+00	0.363500E+00	-0.417600E+00
8.600	0.936100E+00	0.108630E+01	0.188270E+01	0.151110E+01	0.868500E+00	0.344200E+00	-0.387800E+00
8.800	0.891000E+00	0.105900E+01	0.165750E+01	0.173420E+01	0.865300E+00	0.327400E+00	-0.355600E+00
9.000	0.845800E+00	0.103320E+01	0.151060E+01	0.185310E+01	0.852900E+00	0.312500E+00	-0.322100E+00
9.200	0.800800E+00	0.100890E+01	0.141960E+01	0.192220E+01	0.831800E+00	0.299200E+00	-0.289800E+00
9.400	0.756400E+00	0.986000E+00	0.136480E+01	0.196810E+01	0.802800E+00	0.287100E+00	0.268100E+00
9.800	0.670000E+00	0.944600E+00	0.131810E+01	0.203270E+01	0.726100E+00	0.264900E+00	0.130700E+01
10.000	0.628600E+00	0.926200E+00	0.131420E+01	0.205920E+01	0.682500E+00	0.254000E+00	0.127060E+01
10.200	0.588600E+00	0.909500E+00	0.131910E+01	0.208330E+01	0.639000E+00	0.242600E+00	0.122340E+01
10.400	0.550300E+00	0.894400E+00	0.133090E+01	0.210450E+01	0.598400E+00	0.230100E+00	0.116680E+01
10.600	0.513800E+00	0.881000E+00	0.134840E+01	0.212220E+01	0.563500E+00	0.215300E+00	0.110280E+01
10.800	0.479100E+00	0.869200E+00	0.137110E+01	0.213570E+01	0.535900E+00	-0.196100E+00	-0.103360E+01
11.000	0.446400E+00	0.858700E+00	0.139850E+01	0.214420E+01	0.516100E+00	-0.168400E+00	-0.962000E+00
11.200	0.415700E+00	0.849400E+00	0.143040E+01	0.214720E+01	0.503500E+00	-0.123900E+00	-0.891500E+00
11.400	0.387000E+00	0.840800E+00	0.146680E+01	0.214410E+01	0.497000E+00	-0.458000E-01	-0.823300E+00
11.600	0.360200E+00	0.832400E+00	0.150770E+01	0.213480E+01	0.494700E+00	-0.803000E-01	-0.748400E+00
11.800	0.335200E+00	0.823600E+00	0.155290E+01	0.211930E+01	0.495100E+00	-0.200400E+00	-0.656500E+00
12.000	0.312000E+00	0.813800E+00	0.160250E+01	0.209770E+01	0.496600E+00	-0.237700E+00	-0.581200E+00
12.200	0.290500E+00	0.802200E+00	0.165620E+01	0.207030E+01	0.497900E+00	-0.213100E+00	-0.538200E+00
12.400	0.270400E+00	0.788500E+00	0.171390E+01	0.203750E+01	0.498100E+00	-0.159700E+00	-0.516600E+00
12.600	0.251900E+00	0.771900E+00	0.177490E+01	0.199950E+01	0.496800E+00	-0.927000E-01	-0.505500E+00
12.800	0.234600E+00	0.752300E+00	0.183890E+01	0.195670E+01	0.493400E+00	-0.179000E-01	-0.498100E+00
13.000	0.218500E+00	0.729600E+00	0.190520E+01	0.190950E+01	0.488200E+00	0.623000E-01	-0.489100E+00
13.200	0.203600E+00	0.703900E+00	0.197290E+01	0.185800E+01	0.481100E+00	0.146100E+00	-0.474000E+00
13.400	0.189800E+00	0.675500E+00	0.204120E+01	0.180280E+01	0.472400E+00	0.231000E+00	-0.449200E+00
13.600	0.176900E+00	0.645100E+00	0.210930E+01	0.174390E+01	0.462600E+00	0.312900E+00	-0.413400E+00
13.800	0.164900E+00	0.613200E+00	0.217640E+01	0.168200E+01	0.451900E+00	0.387100E+00	-0.368200E+00
14.000	0.153700E+00	0.580500E+00	0.224190E+01	0.161730E+01	0.440500E+00	0.450400E+00	-0.317800E+00
14.200	0.143400E+00	0.547600E+00	0.230520E+01	0.155030E+01	0.428800E+00	0.502000E+00	-0.266500E+00
14.400	0.133800E+00	0.515200E+00	0.236580E+01	0.148140E+01	0.416800E+00	0.543100E+00	-0.217300E+00
14.600	0.124800E+00	0.483600E+00	0.242340E+01	0.141120E+01	0.404800E+00	0.575700E+00	-0.171600E+00
14.800	0.116500E+00	0.453300E+00	0.247760E+01	0.134010E+01	0.392600E+00	0.601600E+00	-0.129500E+00
15.000	0.108800E+00	0.424400E+00	0.252850E+01	0.126870E+01	0.380500E+00	0.622400E+00	-0.907000E-01
15.200	0.101600E+00	0.397200E+00	0.257590E+01	0.119750E+01	0.368400E+00	0.639000E+00	-0.545000E-01
15.400	0.950000E-01	0.371700E+00	0.261990E+01	0.112680E+01	0.356300E+00	0.652300E+00	-0.204000E-01
15.600	0.888000E-01	0.347900E+00	0.266050E+01	0.105710E+01	0.344300E+00	0.663000E+00	-0.123000E-01
15.800	0.831000E-01	0.325800E+00	0.269780E+01	0.988700E+00	0.332200E+00	0.671300E+00	0.440000E-01
16.200	0.728000E-01	0.286400E+00	0.276330E+01	0.857300E+00	0.307900E+00	0.682400E+00	0.106100E+00
16.400	0.682000E-01	0.268800E+00	0.279180E+01	0.794700E+00	0.295600E+00	0.685600E+00	0.137400E+00
16.600	0.639000E-01	0.252800E+00	0.281780E+01	0.734300E+00	0.283100E+00	0.687600E+00	0.169200E+00
16.800	0.600000E-01	0.237900E+00	0.284140E+01	0.676500E+00	0.270300E+00	0.688400E+00	0.201600E+00
17.000	0.563000E-01	0.224200E+00	0.286290E+01	0.621200E+00	0.257200E+00	0.688200E+00	0.234700E+00
17.200	0.528000E-01	0.211600E+00	0.288250E+01	0.568600E+00	0.243700E+00	0.687100E+00	0.268700E+00
17.400	0.496000E-01	0.199900E+00	0.290030E+01	0.518700E+00	0.229600E+00	0.685200E+00	0.303700E+00
17.600	0.467000E-01	0.189100E+00	0.291640E+01	0.471600E+00	0.215000E+00	0.682600E+00	0.339400E+00
17.800	0.439000E-01	0.179100E+00	0.293110E+01	0.427200E+00	0.199700E+00	0.679300E+00	0.376000E+00
18.000	0.413000E-01	0.169900E+00	0.294450E+01	0.385800E+00	0.183700E+00	0.675500E+00	0.413100E+00
18.600	0.346000E-01	0.145900E+00	0.297810E+01	0.278600E+00	0.131100E+00	0.660800E+00	0.525100E+00
19.000	0.308000E-01	0.132600E+00	0.299600E+01	0.221300E+00	0.924000E-01	0.648900E+00	0.596100E+00
19.200	0.291000E-01	0.126600E+00	0.300380E+01	0.196700E+00	0.721000E-01	0.642400E+00	0.628500E+00
19.400	0.275000E-01	0.120900E+00	0.301100E+01	0.174600E+00	0.513000E-01	0.635600E+00	0.658800E+00
19.800	0.246000E-01	0.110700E+00	0.302380E+01	0.137400E+00	0.880000E-02	0.620900E+00	0.715100E+00
20.000	0.232000E-01	0.106100E+00	0.302940E+01	0.122000E+00	0.127000E-01	0.613100E+00	0.738500E+00
20.400	0.208000E-01	0.976000E-01	0.303940E+01	0.965000E-01	0.557000E-01	0.596600E+00	0.775700E+00
20.600	0.197000E-01	0.937000E-01	0.304390E+01	0.860000E-01	0.771000E-01	0.587900E+00	0.789500E+00
21.600	0.151000E-01	0.772000E-01	0.306200E+01	0.509000E-01	0.179100E+00	0.539900E+00	0.811600E+00
22.400	0.122000E-01	0.667000E-01	0.307260E+01	0.359000E-01	0.252600E+00	0.496000E+00	0.794000E+00
22.600	0.116000E-01	0.644000E-01	0.307490E+01	0.332000E-01	0.269600E+00	0.484400E+00	0.788900E+00
22.800	0.110000E-01	0.621000E-01	0.307700E+01	0.309000E-01	0.285900E+00	0.472500E+00	0.784500E+00
23.000	0.104000E-01	0.600000E-01	0.307910E+01	0.289000E-01	0.301600E+00	0.460500E+00	0.780900E+00

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3	23.200	0.990000E-02	0.580000E-01	0.308100E+01	0.271000E-01	0.316500E+00	0.448400E+00	0.778400E+00
4	23.800	0.840000E-02	0.524000E-01	0.308620E+01	0.230000E-01	0.357200E+00	0.411600E+00	0.775800E+00
5	24.000	0.790000E-02	0.507000E-01	0.308780E+01	0.219000E-01	0.369200E+00	0.399500E+00	0.775600E+00
6	24.200	0.750000E-02	0.491000E-01	0.308920E+01	0.210000E-01	0.380600E+00	0.387500E+00	0.775500E+00
7	24.400	0.710000E-02	0.475000E-01	0.309070E+01	0.201000E-01	0.391200E+00	0.375600E+00	0.775300E+00
8	24.600	0.670000E-02	0.460000E-01	0.309200E+01	0.194000E-01	0.401200E+00	0.363900E+00	0.774600E+00
9	24.800	0.630000E-02	0.446000E-01	0.309330E+01	0.187000E-01	0.410400E+00	0.352600E+00	0.773400E+00
10	25.000	0.600000E-02	0.432000E-01	0.309460E+01	0.181000E-01	0.419000E+00	0.341500E+00	0.771500E+00
11	25.200	0.560000E-02	0.418000E-01	0.309570E+01	0.176000E-01	0.426900E+00	0.330700E+00	0.768900E+00
12	25.400	0.530000E-02	0.406000E-01	0.309690E+01	0.170000E-01	0.434300E+00	0.320400E+00	0.765700E+00
13	25.600	0.500000E-02	0.393000E-01	0.309800E+01	0.166000E-01	0.441100E+00	0.310300E+00	0.761800E+00
14	25.800	0.470000E-02	0.381000E-01	0.309900E+01	0.162000E-01	0.447300E+00	0.300700E+00	0.757300E+00
15	26.000	0.440000E-02	0.370000E-01	0.310000E+01	0.158000E-01	0.453000E+00	0.291500E+00	0.752200E+00
16	26.200	0.410000E-02	0.359000E-01	0.310100E+01	0.154000E-01	0.458300E+00	0.282800E+00	0.746500E+00
17	26.400	0.380000E-02	0.348000E-01	0.310200E+01	0.151000E-01	0.463200E+00	0.274400E+00	0.740500E+00
18	26.600	0.360000E-02	0.338000E-01	0.310290E+01	0.148000E-01	0.467700E+00	0.266200E+00	0.734100E+00
19	26.800	0.330000E-02	0.328000E-01	0.310370E+01	0.145000E-01	0.471800E+00	0.258700E+00	0.727200E+00
20	27.000	0.310000E-02	0.319000E-01	0.310460E+01	0.142000E-01	0.475500E+00	0.251600E+00	0.720100E+00
21	27.200	0.290000E-02	0.310000E-01	0.310540E+01	0.139000E-01	0.478900E+00	0.244900E+00	0.712800E+00
22	27.400	0.270000E-02	0.301000E-01	0.310620E+01	0.137000E-01	0.482100E+00	0.238600E+00	0.705200E+00
23	27.600	0.250000E-02	0.292000E-01	0.310700E+01	0.134000E-01	0.485000E+00	0.232700E+00	0.697500E+00
24	27.800	0.230000E-02	0.284000E-01	0.310770E+01	0.132000E-01	0.487700E+00	0.227100E+00	0.689600E+00
25	28.000	0.210000E-02	0.276000E-01	0.310850E+01	0.130000E-01	0.490100E+00	0.221900E+00	0.681600E+00
26	28.400	0.170000E-02	0.261000E-01	0.310990E+01	0.125000E-01	0.494500E+00	0.212600E+00	0.665300E+00
27	29.000	0.120000E-02	0.240000E-01	0.311190E+01	0.119000E-01	0.499900E+00	0.201000E+00	0.640500E+00
28	29.200	0.110000E-02	0.234000E-01	0.311250E+01	0.118000E-01	0.501400E+00	0.197800E+00	0.632200E+00
29	29.400	0.900000E-03	0.227000E-01	0.311310E+01	0.116000E-01	0.502900E+00	0.194900E+00	0.623900E+00
30	29.600	0.800000E-03	0.221000E-01	0.311330E+01	0.114000E-01	0.504200E+00	0.192200E+00	0.615700E+00
31	29.800	0.700000E-03	0.216000E-01	0.311430E+01	0.112000E-01	0.505500E+00	0.189800E+00	0.607500E+00
32	30.000	0.600000E-03	0.210000E-01	0.311490E+01	0.110000E-01	0.506600E+00	0.187600E+00	0.599300E+00
33	30.600	0.200000E-03	0.194000E-01	0.311660E+01	0.105000E-01	0.509800E+00	0.182500E+00	0.575200E+00
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Table 7: $(3)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	3-1	3-2	3-3	3-4	3-5	3-6	3-7
4.400	0.202550E+01	-0.186940E+01	0.115240E+01	0.457690E+01	-0.157800E+01	0.820600E+00	0.369200E+00
4.600	0.210330E+01	-0.177870E+01	0.207280E+01	0.402740E+01	-0.133540E+01	0.986700E+00	0.443400E+00
4.800	0.218960E+01	-0.154230E+01	0.413130E+01	0.752300E+00	-0.110140E+01	0.135050E+01	0.517900E+00
5.000	0.218410E+01	-0.113930E+01	0.363170E+01	0.595000E-01	-0.906600E+00	0.181700E+01	0.556000E+00
5.200	0.210620E+01	-0.786700E+00	0.310750E+01	-0.292400E+00	-0.813600E+00	0.213100E+01	0.555400E+00
5.400	0.206010E+01	-0.581200E+00	0.282530E+01	-0.457500E+00	-0.809200E+00	0.229590E+01	0.549900E+00
5.600	0.205570E+01	-0.467500E+00	0.270920E+01	-0.643500E+00	-0.836800E+00	0.238360E+01	0.548700E+00
5.800	0.207720E+01	-0.399700E+00	0.267950E+01	-0.869500E+00	-0.853800E+00	0.242420E+01	0.550400E+00
6.000	0.211290E+01	-0.354500E+00	0.269220E+01	-0.112130E+01	-0.845200E+00	0.242870E+01	0.553200E+00
6.200	0.215600E+01	-0.320200E+00	0.272370E+01	-0.136730E+01	-0.833000E+00	0.240330E+01	0.555900E+00
6.800	0.229450E+01	-0.235300E+00	0.281890E+01	-0.186310E+01	-0.111790E+01	0.221040E+01	0.556700E+00
7.000	0.233780E+01	-0.206800E+00	0.282920E+01	-0.193110E+01	-0.132320E+01	0.213100E+01	0.553400E+00
7.400	0.241390E+01	-0.146100E+00	0.278270E+01	-0.199230E+01	-0.174050E+01	0.198990E+01	0.540900E+00
7.600	0.244500E+01	-0.113700E+00	0.270520E+01	-0.203850E+01	-0.191400E+01	0.193730E+01	0.530500E+00
7.800	0.247080E+01	-0.800000E-01	0.256340E+01	-0.213760E+01	-0.205590E+01	0.189820E+01	0.517700E+00
8.000	0.249060E+01	-0.449000E-01	0.230870E+01	-0.232400E+01	-0.216800E+01	0.187230E+01	0.502300E+00
8.200	0.250380E+01	0.850000E-02	0.186150E+01	-0.260450E+01	-0.225460E+01	0.185790E+01	0.484800E+00
8.400	0.250980E+01	0.288000E-01	0.121300E+01	-0.286760E+01	-0.232020E+01	0.185520E+01	0.463800E+00
8.600	0.250820E+01	0.671000E-01	0.591400E+00	-0.295200E+01	-0.236830E+01	0.186080E+01	0.440500E+00
8.800	0.249850E+01	0.106200E+00	0.169500E+00	-0.288650E+01	-0.240150E+01	0.187330E+01	0.414100E+00
9.000	0.248010E+01	0.145700E+00	0.888000E-01	-0.275360E+01	-0.242170E+01	0.189060E+01	0.384300E+00
9.200	0.245250E+01	0.185600E+00	0.251000E+00	-0.258910E+01	-0.242960E+01	0.191030E+01	0.349900E+00
9.400	0.241530E+01	0.225400E+00	0.358700E+00	-0.240430E+01	-0.242510E+01	0.192980E+01	0.307400E+00
9.800	0.231000E+01	0.303700E+00	0.488100E+00	-0.199050E+01	-0.237470E+01	0.195670E+01	0.511200E+00
10.000	0.224120E+01	0.341300E+00	0.527800E+00	-0.176980E+01	-0.232590E+01	0.195800E+01	0.569200E+00
10.200	0.216130E+01	0.376900E+00	0.556700E+00	-0.154680E+01	-0.226000E+01	0.194690E+01	0.601200E+00
10.400	0.207050E+01	0.409800E+00	0.577000E+00	-0.132760E+01	-0.217720E+01	0.192060E+01	0.618000E+00
10.600	0.196940E+01	0.439300E+00	0.590200E+00	-0.111810E+01	-0.207950E+01	0.187640E+01	0.624600E+00
10.800	0.185940E+01	0.464300E+00	0.597400E+00	-0.923200E+00	-0.197010E+01	0.181240E+01	0.627700E+00
11.000	0.174240E+01	0.484000E+00	0.599700E+00	-0.746700E+00	-0.185330E+01	0.172610E+01	0.638500E+00
11.200	0.162120E+01	0.497800E+00	0.598200E+00	-0.591200E+00	-0.173320E+01	0.161170E+01	0.677000E+00
11.400	0.149930E+01	0.505300E+00	0.594100E+00	-0.457800E+00	-0.161380E+01	0.145120E+01	0.776600E+00
11.600	0.137980E+01	0.506600E+00	0.588400E+00	-0.346400E+00	-0.149770E+01	0.120590E+01	0.956400E+00
11.800	0.126550E+01	0.502100E+00	0.582000E+00	-0.255700E+00	-0.138690E+01	0.908100E+00	0.110820E+01
12.000	0.115850E+01	0.492300E+00	0.575500E+00	-0.183700E+00	-0.128230E+01	0.706800E+00	0.112750E+01
12.200	0.106010E+01	0.477900E+00	0.569200E+00	-0.128100E+00	-0.118400E+01	0.619400E+00	0.106940E+01
12.400	0.970700E+00	0.459900E+00	0.563200E+00	-0.863000E-01	-0.109220E+01	0.595000E+00	0.983500E+00
12.600	0.890100E+00	0.439000E+00	0.557500E+00	-0.557000E-01	-0.100670E+01	0.600700E+00	0.887600E+00
12.800	0.818000E+00	0.415900E+00	0.551800E+00	-0.343000E-01	-0.927400E+00	0.620100E+00	0.787500E+00
13.000	0.753500E+00	0.391400E+00	0.545900E+00	-0.202000E-01	-0.854200E+00	0.644500E+00	0.684600E+00
13.200	0.696000E+00	0.366200E+00	0.539500E+00	-0.118000E-01	-0.787000E+00	0.668100E+00	0.579300E+00
13.400	0.644700E+00	0.340800E+00	0.532400E+00	-0.780000E-02	-0.725700E+00	0.685900E+00	0.473400E+00
13.600	0.598900E+00	0.315800E+00	0.524400E+00	0.720000E-02	-0.670000E+00	0.693800E+00	0.371000E+00
13.800	0.557800E+00	0.291600E+00	0.515500E+00	0.930000E-02	-0.619600E+00	0.689400E+00	0.278500E+00
14.000	0.520900E+00	0.268600E+00	0.505700E+00	0.132000E-01	-0.574200E+00	0.673900E+00	0.201500E+00
14.200	0.487700E+00	0.246900E+00	0.495100E+00	0.185000E-01	-0.533300E+00	0.650300E+00	0.142600E+00
14.400	0.457700E+00	0.226700E+00	0.483700E+00	0.248000E-01	-0.496300E+00	0.622200E+00	0.101300E+00
14.600	0.430500E+00	0.208200E+00	0.471600E+00	0.316000E-01	-0.463000E+00	0.592600E+00	0.752000E-01
14.800	0.405700E+00	0.191200E+00	0.459200E+00	0.388000E-01	-0.432800E+00	0.563200E+00	0.617000E-01
15.000	0.383100E+00	0.175700E+00	0.446400E+00	0.462000E-01	-0.405300E+00	0.534900E+00	0.582000E-01
15.200	0.362400E+00	0.161700E+00	0.433400E+00	0.536000E-01	-0.380200E+00	0.508300E+00	0.627000E-01
15.400	0.343300E+00	0.149100E+00	0.420400E+00	0.608000E-01	-0.357200E+00	0.483300E+00	0.738000E-01
15.600	0.325800E+00	0.137700E+00	0.407500E+00	0.679000E-01	-0.335900E+00	0.460100E+00	0.903000E-01
15.800	0.309600E+00	0.127500E+00	0.394700E+00	0.747000E-01	-0.316100E+00	0.438500E+00	0.111200E+00
16.200	0.280600E+00	0.110000E+00	0.369800E+00	0.874000E-01	-0.280200E+00	0.399700E+00	0.164800E+00
16.400	0.267500E+00	0.102500E+00	0.357800E+00	0.933000E-01	-0.263800E+00	0.382200E+00	0.196600E+00
16.600	0.255300E+00	0.958000E-01	0.346200E+00	0.988000E-01	-0.248100E+00	0.365900E+00	0.231400E+00
16.800	0.243900E+00	0.897000E-01	0.335000E+00	0.104000E+00	-0.233100E+00	0.350600E+00	0.269000E+00
17.000	-0.233200E+00	0.842000E-01	0.324100E+00	0.108800E+00	-0.218700E+00	0.336100E+00	0.309200E+00
17.200	0.223200E+00	0.792000E-01	0.313600E+00	0.113300E+00	-0.204700E+00	0.322500E+00	0.351700E+00
17.400	0.213700E+00	0.746000E-01	0.303600E+00	0.117400E+00	-0.191200E+00	0.309600E+00	0.396600E+00
17.600	0.204700E+00	0.705000E-01	0.293900E+00	0.121100E+00	-0.178000E+00	0.297300E+00	0.443500E+00
17.800	0.196300E+00	0.667000E-01	0.284500E+00	0.124300E+00	-0.165200E+00	0.285700E+00	0.492100E+00
18.000	0.188200E+00	0.632000E-01	0.275600E+00	0.127100E+00	-0.152700E+00	0.274600E+00	0.542400E+00
18.600	0.166600E+00	0.544000E-01	0.250800E+00	0.132600E+00	-0.117200E+00	0.244300E+00	0.698800E+00
19.000	0.153900E+00	0.495000E-01	0.235800E+00	0.133600E+00	-0.955000E-01	0.226000E+00	0.804200E+00
19.200	0.148000E+00	0.473000E-01	0.228700E+00	0.133400E+00	-0.853000E-01	0.217400E+00	0.857000E+00
19.400	0.142400E+00	0.453000E-01	0.221900E+00	0.132700E+00	-0.755000E-01	0.209000E+00	0.908300E+00
19.800	0.131900E+00	0.416000E-01	0.209100E+00	0.130100E+00	-0.579000E-01	0.193600E+00	0.100240E+01
20.000	0.127000E+00	0.399000E-01	0.203000E+00	0.128200E+00	-0.498000E-01	0.186200E+00	0.104690E+01
20.400	0.117900E+00	0.369000E-01	0.191600E+00	0.123800E+00	-0.351000E-01	0.172200E+00	0.112860E+01
20.600	0.113700E+00	0.355000E-01	0.186200E+00	0.121300E+00	-0.286000E-01	0.165600E+00	0.116540E+01
21.600	0.950000E-01	0.294000E-01	0.161900E+00	0.107200E+00	-0.240000E-02	0.135300E+00	0.130810E+01
22.400	0.827000E-01	0.256000E-01	0.145500E+00	0.957000E-01	0.120000E-01	0.114300E+00	0.138640E+01
22.600	0.800000E-01	0.247000E-01	0.141700E+00	0.929000E-01	0.148000E-01	0.109500E+00	0.140540E+01
22.800	0.773000E-01	0.239000E-01	0.138100E+00	0.902000E-01	0.174000E-01	0.104700E+00	0.142520E+01
23.000	0.748000E-01	0.231000E-01	0.134600E+00	0.876000E-01	0.197000E-01	0.100200E+00	0.144640E+01

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3	23.200	0.724000E-01	0.223000E-01	0.131200E+00	0.850000E-01	0.218000E-01	0.958000E-01	0.146900E+01
4	23.800	0.656000E-01	0.202000E-01	0.121600E+00	0.777000E-01	0.266000E-01	0.835000E-01	0.154450E+01
5	24.000	0.636000E-01	0.196000E-01	0.118700E+00	0.754000E-01	0.278000E-01	0.797000E-01	0.157140E+01
6	24.200	0.616000E-01	0.189000E-01	0.115800E+00	0.731000E-01	0.288000E-01	0.761000E-01	0.159830E+01
7	24.400	0.597000E-01	0.183000E-01	0.113000E+00	0.710000E-01	0.296000E-01	0.726000E-01	0.162510E+01
8	24.600	0.579000E-01	0.178000E-01	0.110300E+00	0.689000E-01	0.303000E-01	0.692000E-01	0.165140E+01
9	24.800	0.561000E-01	0.172000E-01	0.107700E+00	0.669000E-01	0.308000E-01	0.660000E-01	0.167700E+01
10	25.000	0.544000E-01	0.167000E-01	0.105200E+00	0.649000E-01	0.312000E-01	0.629000E-01	0.170180E+01
11	25.200	0.528000E-01	0.162000E-01	0.102700E+00	0.631000E-01	0.315000E-01	0.600000E-01	0.172570E+01
12	25.400	0.512000E-01	0.157000E-01	0.100300E+00	0.612000E-01	0.316000E-01	0.572000E-01	0.174860E+01
13	25.600	0.497000E-01	0.152000E-01	0.980000E-01	0.595000E-01	0.317000E-01	0.546000E-01	0.177060E+01
14	25.800	0.482000E-01	0.147000E-01	0.958000E-01	0.578000E-01	0.316000E-01	0.521000E-01	0.179180E+01
15	26.000	0.468000E-01	0.143000E-01	0.936000E-01	0.561000E-01	0.315000E-01	0.497000E-01	0.181200E+01
16	26.200	0.455000E-01	0.138000E-01	0.915000E-01	0.545000E-01	0.313000E-01	0.474000E-01	0.183140E+01
17	26.400	0.442000E-01	0.134000E-01	0.895000E-01	0.530000E-01	0.311000E-01	0.452000E-01	0.185010E+01
18	26.600	0.429000E-01	0.130000E-01	0.875000E-01	0.515000E-01	0.308000E-01	0.431000E-01	0.186800E+01
19	26.800	0.417000E-01	0.126000E-01	0.856000E-01	0.501000E-01	0.304000E-01	0.412000E-01	0.188530E+01
20	27.000	0.405000E-01	0.123000E-01	0.838000E-01	0.487000E-01	0.301000E-01	0.393000E-01	0.190200E+01
21	27.200	0.394000E-01	0.119000E-01	0.819000E-01	0.474000E-01	0.296000E-01	0.375000E-01	0.191810E+01
22	27.400	0.383000E-01	0.116000E-01	0.802000E-01	0.461000E-01	0.292000E-01	0.359000E-01	0.193370E+01
23	27.600	0.373000E-01	0.112000E-01	0.785000E-01	0.449000E-01	0.287000E-01	0.343000E-01	0.194880E+01
24	27.800	0.363000E-01	0.109000E-01	0.768000E-01	0.437000E-01	0.283000E-01	0.328000E-01	0.196340E+01
25	28.000	0.353000E-01	0.106000E-01	0.752000E-01	0.425000E-01	0.278000E-01	0.313000E-01	0.197760E+01
26	28.400	0.334000E-01	0.100000E-01	0.721000E-01	0.403000E-01	0.268000E-01	0.287000E-01	0.200480E+01
27	29.000	0.309000E-01	0.920000E-02	0.678000E-01	0.373000E-01	0.252000E-01	0.251000E-01	0.204280E+01
28	29.200	0.301000E-01	0.890000E-02	0.665000E-01	0.363000E-01	0.247000E-01	0.240000E-01	0.205470E+01
29	29.400	0.293000E-01	0.860000E-02	0.651000E-01	0.354000E-01	0.242000E-01	0.230000E-01	0.206650E+01
30	29.600	0.285000E-01	0.840000E-02	0.638000E-01	0.345000E-01	0.237000E-01	0.220000E-01	0.207790E+01
31	29.800	0.278000E-01	0.820000E-02	0.626000E-01	0.337000E-01	0.232000E-01	0.211000E-01	0.208900E+01
32	30.000	0.271000E-01	0.790000E-02	0.614000E-01	0.328000E-01	0.228000E-01	0.202000E-01	0.209980E+01
33	30.600	0.251000E-01	0.730000E-02	0.579000E-01	0.305000E-01	0.213000E-01	0.177000E-01	0.213070E+01
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Table 8: $(4)^3\Sigma^+ - (1-7)^3\Pi$ transitions

R	4-1	4-2	4-3	4-4	4-5	4-6	4-7
4.400	0.332800E+00	0.164760E+01	0.937200E+00	0.100900E+00	0.597880E+01	0.745700E+00	0.134800E+01
4.600	0.394900E+00	0.179560E+01	0.111930E+01	0.143000E-01	0.608380E+01	0.710800E+00	0.118460E+01
4.800	0.455400E+00	0.193800E+01	0.109950E+01	0.889700E+00	0.614560E+01	0.726700E+00	0.101300E+01
5.000	0.512600E+00	0.206760E+01	0.129440E+01	0.120870E+01	0.615370E+01	0.800000E+00	0.845000E+00
5.200	0.566100E+00	0.217990E+01	0.157040E+01	0.148880E+01	0.609780E+01	0.930600E+00	0.688900E+00
5.400	0.616000E+00	0.227250E+01	0.183220E+01	0.183580E+01	0.596400E+01	0.111280E+01	0.548700E+00
5.600	0.663300E+00	0.234500E+01	0.206590E+01	0.226280E+01	0.573520E+01	0.133620E+01	0.425800E+00
5.800	0.709000E+00	0.239850E+01	0.227170E+01	0.272320E+01	0.541030E+01	0.158580E+01	0.320100E+00
6.000	0.754200E+00	0.243460E+01	0.245310E+01	0.310530E+01	0.504030E+01	0.184490E+01	0.231000E+00
6.200	0.799900E+00	0.245530E+01	0.261420E+01	0.330480E+01	0.471800E+01	0.210130E+01	0.157600E+00
6.800	0.946800E+00	0.244240E+01	0.300730E+01	0.288260E+01	0.428850E+01	0.284170E+01	0.243000E-01
7.000	0.100070E+01	0.241840E+01	0.311370E+01	0.258840E+01	0.422600E+01	0.304790E+01	0.640000E-02
7.400	0.111850E+01	0.234770E+01	0.328410E+01	0.209420E+01	0.410670E+01	0.331160E+01	-0.440000E-02
7.600	0.118290E+01	0.230290E+01	0.333530E+01	0.197920E+01	0.404770E+01	0.336740E+01	-0.195000E-01
7.800	0.125130E+01	0.225270E+01	0.333970E+01	0.200510E+01	0.399570E+01	0.338010E+01	-0.432000E-01
8.000	0.132390E+01	0.219760E+01	0.324660E+01	0.222380E+01	0.395680E+01	0.335590E+01	-0.746000E-01
8.200	0.140090E+01	0.213800E+01	0.295570E+01	0.267810E+01	0.393540E+01	0.330050E+01	-0.111300E+00
8.400	0.148240E+01	0.207450E+01	0.240090E+01	0.325490E+01	0.393380E+01	0.3321890E+01	-0.154500E+00
8.600	0.156850E+01	0.200730E+01	0.178560E+01	0.369980E+01	0.395360E+01	0.311370E+01	-0.200700E+00
8.800	0.165920E+01	0.193660E+01	0.133370E+01	0.394460E+01	0.399470E+01	0.298710E+01	-0.249400E+00
9.000	0.175450E+01	0.186240E+01	0.104240E+01	0.408060E+01	0.405630E+01	0.283990E+01	-0.298900E+00
9.200	0.185470E+01	0.178460E+01	0.848500E+00	0.416230E+01	0.413650E+01	0.267150E+01	-0.346900E+00
9.400	0.196010E+01	0.170230E+01	0.707000E+00	0.421080E+01	0.423100E+01	0.247890E+01	-0.385400E+00
9.800	0.218740E+01	0.151150E+01	0.479500E+00	0.422890E+01	0.441790E+01	0.197830E+01	-0.121790E+01
10.000	0.230070E+01	0.137880E+01	0.349500E+00	0.417560E+01	0.443180E+01	0.159810E+01	-0.138840E+01
10.200	0.235100E+01	0.115810E+01	0.159100E+00	0.395300E+01	0.417480E+01	0.984900E+00	-0.151290E+01
10.400	0.216820E+01	0.790500E+00	-0.970000E-01	0.329220E+01	0.333010E+01	0.101100E+00	-0.147200E+01
10.600	0.187380E+01	0.468200E+00	-0.280800E+00	0.250570E+01	0.241440E+01	0.571700E+00	-0.131830E+01
10.800	0.170180E+01	0.290900E+00	-0.371800E+00	0.198610E+01	0.189440E+01	0.916600E+00	-0.122620E+01
11.000	0.162600E+01	0.191200E+00	-0.421000E+00	0.165400E+01	0.162580E+01	0.109380E+01	-0.120430E+01
11.200	0.159710E+01	0.126600E+00	-0.452100E+00	0.141710E+01	0.147880E+01	0.116770E+01	-0.124420E+01
11.400	0.158830E+01	0.800000E-01	-0.473300E+00	0.123060E+01	0.139190E+01	0.112630E+01	-0.136210E+01
11.600	0.158630E+01	0.448000E-01	-0.488000E+00	0.107400E+01	0.133560E+01	0.909000E+00	-0.156540E+01
11.800	0.158410E+01	0.180000E-01	-0.497400E+00	0.937400E+00	0.129470E+01	0.570400E+00	-0.174410E+01
12.000	0.157870E+01	-0.140000E-02	-0.502000E+00	0.816200E+00	0.126080E+01	0.341900E+00	-0.181180E+01
12.200	0.156910E+01	-0.142000E-01	-0.502300E+00	0.707800E+00	0.122920E+01	0.264100E+00	-0.181990E+01
12.400	0.155570E+01	-0.212000E-01	-0.498600E+00	0.610500E+00	0.119700E+01	0.278800E+00	-0.180190E+01
12.600	0.153910E+01	-0.232000E-01	-0.491300E+00	0.523200E+00	0.116290E+01	0.347100E+00	-0.176600E+01
12.800	0.152020E+01	-0.210000E-01	-0.480800E+00	0.444700E+00	0.112630E+01	0.449800E+00	-0.171250E+01
13.000	0.149970E+01	-0.157000E-01	-0.467500E+00	0.374000E+00	0.108730E+01	0.576200E+00	-0.163950E+01
13.200	0.147860E+01	-0.820000E-02	-0.451700E+00	0.310200E+00	0.104640E+01	0.717600E+00	-0.154420E+01
13.400	0.145730E+01	-0.800000E-03	-0.433800E+00	0.252300E+00	0.100440E+01	0.863700E+00	-0.142540E+01
13.600	0.143640E+01	0.103000E-01	-0.414400E+00	0.199700E+00	0.962100E+00	0.100130E+01	-0.128630E+01
13.800	0.141620E+01	0.199000E-01	-0.393800E+00	0.151600E+00	0.920600E+00	0.111720E+01	-0.113640E+01
14.000	0.139700E+01	0.291000E-01	-0.372300E+00	0.107400E+00	0.880400E+00	0.120380E+01	-0.988400E+00
14.200	0.137920E+01	0.375000E-01	-0.350500E+00	0.667000E-01	0.842400E+00	0.126110E+01	-0.852600E+00
14.400	0.136270E+01	0.450000E-01	-0.328600E+00	0.291000E-01	0.807000E+00	0.129420E+01	-0.734300E+00
14.600	0.134780E+01	0.514000E-01	-0.307000E+00	-0.560000E-02	0.774700E+00	0.130920E+01	-0.634300E+00
14.800	0.133450E+01	0.568000E-01	-0.285900E+00	-0.375000E-01	0.745600E+00	0.131180E+01	-0.550900E+00
15.000	0.132280E+01	0.612000E-01	-0.265400E+00	-0.669000E-01	0.720100E+00	0.130610E+01	-0.481900E+00
15.200	0.131290E+01	0.646000E-01	-0.245800E+00	-0.936000E-01	0.698300E+00	0.129510E+01	-0.424700E+00
15.400	0.130470E+01	0.672000E-01	-0.227200E+00	-0.117800E+00	0.680200E+00	0.128060E+01	-0.377200E+00
15.600	0.129820E+01	0.691000E-01	-0.209600E+00	-0.139200E+00	0.665800E+00	0.126420E+01	-0.337800E+00
15.800	0.129340E+01	0.703000E-01	-0.193000E+00	-0.157800E+00	0.655100E+00	0.124680E+01	-0.305000E+00
16.200	0.128880E+01	0.713000E-01	-0.163000E+00	-0.186000E+00	0.644400E+00	0.121120E+01	-0.254600E+00
16.400	0.128890E+01	0.712000E-01	-0.149500E+00	-0.195100E+00	0.644100E+00	0.119370E+01	-0.235300E+00
16.600	0.129050E+01	0.708000E-01	-0.137100E+00	-0.200800E+00	0.646800E+00	0.117680E+01	-0.219200E+00
16.800	0.129350E+01	0.701000E-01	-0.125500E+00	-0.202800E+00	0.652300E+00	0.116070E+01	-0.205600E+00
17.000	0.129780E+01	0.693000E-01	-0.114900E+00	-0.200800E+00	0.660300E+00	0.114530E+01	-0.194200E+00
17.200	0.130350E+01	0.683000E-01	-0.105100E+00	-0.194900E+00	0.670300E+00	0.113070E+01	-0.184600E+00
17.400	0.131030E+01	0.673000E-01	-0.961000E-01	-0.184900E+00	0.682000E+00	0.111700E+01	-0.176300E+00
17.600	0.131820E+01	0.661000E-01	-0.879000E-01	-0.170600E+00	0.695000E+00	0.110410E+01	-0.169300E+00
17.800	0.132710E+01	0.649000E-01	-0.803000E-01	-0.152300E+00	0.708600E+00	0.109200E+01	-0.162900E+00
18.000	0.133690E+01	0.637000E-01	-0.733000E-01	-0.130000E+00	0.722500E+00	0.108080E+01	-0.157000E+00
18.600	0.137070E+01	0.600000E-01	-0.558000E-01	-0.412000E-01	0.760200E+00	0.105200E+01	-0.139300E+00
19.000	0.139580E+01	0.575000E-01	-0.465000E-01	0.322000E-01	0.777800E+00	0.103640E+01	-0.124900E+00
19.200	0.140890E+01	0.563000E-01	-0.424000E-01	0.717000E-01	0.783400E+00	0.102970E+01	-0.116000E+00
19.400	0.142220E+01	0.551000E-01	-0.386000E-01	0.112300E+00	0.786800E+00	0.102380E+01	-0.105000E+00
19.800	0.144910E+01	0.528000E-01	-0.320000E-01	0.195800E+00	0.785000E+00	0.101260E+01	-0.802000E-01
20.000	0.146270E+01	0.517000E-01	-0.290000E-01	0.237600E+00	0.780500E+00	0.100790E+01	-0.648000E-01
20.400	0.148950E+01	0.496000E-01	-0.239000E-01	0.319500E+00	0.764500E+00	0.999800E+00	-0.278000E-01
20.600	0.150270E+01	0.485000E-01	-0.216000E-01	0.359200E+00	0.753200E+00	0.996200E+00	-0.620000E-02
21.600	0.156460E+01	0.437000E-01	-0.124000E-01	0.539700E+00	0.760300E+00	0.981500E+00	0.124100E+00
22.400	0.160800E+01	0.401000E-01	-0.720000E-02	0.659300E+00	0.582000E+00	0.968700E+00	0.219400E+00
22.600	0.161780E+01	0.393000E-01	-0.620000E-02	0.685800E+00	0.558300E+00	0.964800E+00	0.235400E+00
22.800	0.162730E+01	0.384000E-01	-0.520000E-02	0.711000E+00	0.534300E+00	0.960500E+00	0.247100E+00
23.000	0.163640E+01	0.376000E-01	-0.430000E-02	0.734900E+00	0.510100E+00	0.955700E+00	0.254400E+00

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3	23.200	0.164510E+01	0.368000E-01	-0.350000E-02	0.757600E+00	0.485900E+00	0.950400E+00	0.257300E+00	
4	23.800	0.166890E+01	0.346000E-01	-0.130000E-02	0.818600E+00	0.414700E+00	0.931300E+00	0.243600E+00	
5	24.000	0.167600E+01	0.338000E-01	-0.700000E-03	0.836800E+00	0.391900E+00	0.923800E+00	0.233400E+00	
6	24.200	0.168290E+01	0.331000E-01	-0.100000E-03	0.853900E+00	0.369700E+00	0.915700E+00	0.221500E+00	
7	24.400	0.168940E+01	0.324000E-01	0.400000E-03	0.870100E+00	0.348200E+00	0.907000E+00	0.208600E+00	
8	24.600	0.169560E+01	0.318000E-01	0.900000E-03	0.885400E+00	0.327500E+00	0.897800E+00	0.195200E+00	
9	24.800	0.170150E+01	0.311000E-01	0.140000E-02	0.899800E+00	0.307700E+00	0.888100E+00	0.181700E+00	
10	25.000	0.170700E+01	0.304000E-01	0.180000E-02	0.913300E+00	0.288800E+00	0.878000E+00	0.168400E+00	
11	25.200	0.171230E+01	0.298000E-01	0.220000E-02	0.926100E+00	0.270700E+00	0.867500E+00	0.155600E+00	
12	25.400	0.171730E+01	0.292000E-01	0.260000E-02	0.938100E+00	0.253600E+00	0.856700E+00	0.143600E+00	
13	25.600	0.172200E+01	0.286000E-01	0.300000E-02	0.949400E+00	0.237500E+00	0.845500E+00	0.132300E+00	
14	25.800	0.172650E+01	0.280000E-01	0.330000E-02	0.960000E+00	0.222200E+00	0.834100E+00	0.121800E+00	
15	26.000	0.173080E+01	0.274000E-01	0.370000E-02	0.970000E+00	0.207900E+00	0.822500E+00	0.112200E+00	
16	26.200	0.173480E+01	0.268000E-01	0.400000E-02	0.979400E+00	0.194400E+00	0.810800E+00	0.103400E+00	
17	26.400	0.173860E+01	0.263000E-01	0.420000E-02	0.988300E+00	0.181800E+00	0.798900E+00	0.954000E-01	
18	26.600	0.174220E+01	0.257000E-01	0.450000E-02	0.996600E+00	0.169800E+00	0.786400E+00	0.881000E-01	
19	26.800	0.174560E+01	0.252000E-01	0.480000E-02	0.100440E+01	0.158800E+00	0.774400E+00	0.814000E-01	
20	27.000	0.174890E+01	0.247000E-01	0.500000E-02	0.101170E+01	0.148500E+00	0.762300E+00	0.755000E-01	
21	27.200	0.175180E+01	0.242000E-01	0.520000E-02	0.101850E+01	0.138900E+00	0.750200E+00	0.700000E-01	
22	27.400	0.175470E+01	0.237000E-01	0.540000E-02	0.102500E+01	0.129900E+00	0.738200E+00	0.651000E-01	
23	27.600	0.175740E+01	0.232000E-01	0.560000E-02	0.103110E+01	0.121600E+00	0.726200E+00	0.607000E-01	
24	27.800	0.176000E+01	0.227000E-01	0.570000E-02	0.103680E+01	0.113800E+00	0.714300E+00	0.567000E-01	
25	28.000	0.176250E+01	0.223000E-01	0.590000E-02	0.104210E+01	0.106600E+00	0.702400E+00	0.530000E-01	
26	28.400	0.176690E+01	0.214000E-01	0.610000E-02	0.105190E+01	0.936000E-01	0.679000E+00	0.467000E-01	
27	29.000	0.177290E+01	0.201000E-01	0.640000E-02	0.106450E+01	0.774000E-01	0.644900E+00	0.392000E-01	
28	29.200	0.177460E+01	0.198000E-01	0.640000E-02	0.106810E+01	0.727000E-01	0.633800E+00	0.372000E-01	
29	29.400	0.177620E+01	0.194000E-01	0.640000E-02	0.107160E+01	0.683000E-01	0.622900E+00	0.353000E-01	
30	29.600	0.177780E+01	0.190000E-01	0.650000E-02	0.107480E+01	0.642000E-01	0.612200E+00	0.335000E-01	
31	29.800	0.177930E+01	0.186000E-01	0.650000E-02	0.107790E+01	0.604000E-01	0.601600E+00	0.319000E-01	
32	30.000	0.178070E+01	0.183000E-01	0.650000E-02	0.108080E+01	0.568000E-01	0.591200E+00	0.305000E-01	
33	30.600	0.178440E+01	0.172000E-01	0.640000E-02	0.108840E+01	0.475000E-01	0.560800E+00	0.267000E-01	
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The following tables display the dipole moment functions between the three lowest $^1\Pi$ states with the seven lowest $^1\Pi$ states of **NaRb**, for singlet (Tables 1 to 3) and triplet (Tables 4 to 6) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 2.54158059 Debye. All states are identified with their number with increasing energy. When both indexes are equal, the function corresponds to the permanent dipole moment.

Table 1: (1) $^1\Pi$ -(1-7) $^1\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	-0.610100E+00	-0.374000E+00	0.776000E+00	-0.131560E+01	0.225080E+01	-0.118360E+01	-0.571700E+00
3.200	-0.659700E+00	-0.354400E+00	0.957300E+00	-0.149550E+01	0.210060E+01	-0.119600E+01	-0.623800E+00
3.400	-0.685800E+00	-0.422900E+00	0.108770E+01	-0.161190E+01	0.199790E+01	-0.115540E+01	-0.653100E+00
3.600	-0.694200E+00	-0.549700E+00	0.118580E+01	-0.169360E+01	0.191900E+01	-0.108490E+01	-0.681000E+00
3.800	-0.680300E+00	-0.715600E+00	0.125480E+01	-0.175700E+01	0.184860E+01	-0.100020E+01	-0.710000E+00
4.000	-0.641200E+00	-0.904200E+00	0.129260E+01	-0.181260E+01	0.177860E+01	-0.916400E+00	-0.738200E+00
4.200	-0.578900E+00	-0.110230E+01	0.129770E+01	-0.186510E+01	0.170690E+01	-0.845500E+00	-0.765700E+00
4.400	-0.499300E+00	-0.130140E+01	0.127270E+01	-0.191410E+01	0.163460E+01	-0.793500E+00	-0.794800E+00
4.600	-0.408500E+00	-0.149590E+01	0.122640E+01	-0.195390E+01	0.156420E+01	-0.760300E+00	-0.826700E+00
4.800	-0.312000E+00	-0.168170E+01	0.117440E+01	-0.197690E+01	0.149850E+01	-0.743000E+00	-0.861600E+00
5.000	-0.213700E+00	-0.185470E+01	0.113620E+01	-0.197770E+01	0.143930E+01	-0.736900E+00	-0.897100E+00
5.200	-0.115800E+00	-0.201120E+01	0.112730E+01	-0.195620E+01	0.138790E+01	-0.737900E+00	-0.930100E+00
5.400	-0.189000E-01	-0.214790E+01	0.115590E+01	-0.191670E+01	0.134390E+01	-0.742300E+00	-0.956600E+00
5.600	0.769000E-01	-0.226290E+01	0.122280E+01	-0.186550E+01	0.130590E+01	-0.748200E+00	-0.973000E+00
5.800	0.172200E+00	-0.235480E+01	0.132490E+01	-0.180710E+01	0.127200E+01	-0.754400E+00	-0.977300E+00
6.000	0.267600E+00	-0.242320E+01	0.145830E+01	-0.174290E+01	0.124070E+01	-0.760200E+00	-0.968900E+00
6.200	0.363700E+00	-0.246800E+01	0.161860E+01	-0.167110E+01	0.121070E+01	-0.764400E+00	-0.948300E+00
6.800	0.656400E+00	-0.246150E+01	0.220690E+01	-0.137480E+01	0.111980E+01	-0.753500E+00	-0.825500E+00
7.000	0.753200E+00	-0.241250E+01	0.241570E+01	-0.124400E+01	0.108600E+01	-0.737500E+00	-0.767800E+00
7.400	0.935700E+00	-0.224680E+01	0.281030E+01	-0.951500E+00	0.100660E+01	-0.682900E+00	-0.630900E+00
7.600	0.101670E+01	-0.213250E+01	0.298670E+01	-0.800000E+00	0.959600E+00	-0.644700E+00	-0.552900E+00
7.800	0.108710E+01	-0.200020E+01	0.314540E+01	-0.650800E+00	0.907000E+00	-0.600200E+00	-0.469400E+00
8.000	0.114440E+01	-0.185280E+01	0.328540E+01	-0.506300E+00	0.849000E+00	-0.551000E+00	-0.380700E+00
8.200	0.118640E+01	-0.169420E+01	0.340590E+01	-0.368400E+00	0.785900E+00	-0.498200E+00	-0.288600E+00
8.400	0.121190E+01	-0.152890E+01	0.350680E+01	-0.238400E+00	0.719300E+00	-0.443500E+00	-0.194600E+00
8.600	0.122040E+01	-0.136120E+01	0.358860E+01	-0.116500E+00	0.650200E+00	-0.388500E+00	-0.100600E+00
8.800	0.121240E+01	-0.119520E+01	0.365220E+01	0.300000E-02	0.580300E+00	-0.334800E+00	-0.870000E-02
9.000	0.118930E+01	-0.103470E+01	0.369920E+01	0.101700E+00	0.511400E+00	-0.283400E+00	0.793000E-01
9.200	0.115330E+01	-0.882500E+00	0.373120E+01	0.197400E+00	0.445100E+00	-0.235400E+00	0.161500E+00
9.400	0.110680E+01	-0.740400E+00	0.375030E+01	0.283800E+00	0.382800E+00	-0.191100E+00	0.236500E+00
9.800	0.992500E+00	-0.490700E+00	0.375830E+01	0.427500E+00	0.274200E+00	-0.114900E+00	0.361900E+00
10.000	0.929400E+00	-0.383300E+00	0.375130E+01	0.484200E+00	0.228900E+00	-0.825000E-01	0.411900E+00
10.200	0.865100E+00	-0.286900E+00	0.373930E+01	0.530500E+00	0.189600E+00	-0.535000E-01	0.453900E+00
10.400	0.801000E+00	-0.200900E+00	0.372380E+01	0.566600E+00	0.156100E+00	-0.272000E-01	0.488400E+00
10.600	0.738400E+00	-0.124400E+00	0.370610E+01	0.592500E+00	0.127900E+00	-0.310000E-02	0.516300E+00
10.800	0.678300E+00	-0.567000E-01	0.368700E+01	0.608700E+00	0.104400E+00	0.194000E-01	0.538200E+00
11.000	0.621200E+00	0.310000E-02	0.366740E+01	0.615900E+00	0.851000E-01	0.410000E-01	0.554600E+00
11.200	0.567500E+00	0.555000E-01	0.364780E+01	0.614900E+00	0.695000E-01	0.619000E-01	0.565900E+00
11.400	0.517500E+00	0.101200E+00	0.362850E+01	0.606500E+00	0.575000E-01	0.826000E-01	0.571900E+00
11.600	0.471300E+00	0.140800E+00	0.360980E+01	0.592000E+00	0.487000E-01	0.103100E+00	0.572100E+00
11.800	0.428800E+00	0.174800E+00	0.359190E+01	0.572300E+00	0.431000E-01	0.123500E+00	0.564800E+00
12.000	0.390000E+00	0.203600E+00	0.357480E+01	0.548500E+00	0.408000E-01	0.143700E+00	0.547200E+00
12.200	0.354700E+00	0.227700E+00	0.355860E+01	0.521800E+00	0.418000E-01	0.163300E+00	0.514200E+00
12.400	0.322600E+00	0.247500E+00	0.354320E+01	0.493300E+00	0.463000E-01	0.182000E+00	0.455900E+00
12.600	0.293700E+00	0.263500E+00	0.352860E+01	0.463100E+00	0.541000E-01	0.199400E+00	0.352700E+00
12.800	0.267600E+00	0.276100E+00	0.351480E+01	0.432900E+00	0.654000E-01	0.214900E+00	0.164900E+00
13.000	0.244100E+00	0.285600E+00	0.350180E+01	0.403100E+00	0.800000E-01	0.228000E+00	0.168900E+00
13.200	0.223100E+00	0.292400E+00	0.348940E+01	0.374200E+00	0.977000E-01	0.238500E+00	0.605800E+00
13.400	0.204200E+00	0.296800E+00	0.347760E+01	0.346500E+00	0.118000E+00	0.245900E+00	0.909800E+00
13.600	0.187400E+00	0.299100E+00	0.346650E+01	0.320400E+00	0.140600E+00	0.249900E+00	0.104410E+01
13.800	0.172300E+00	0.299700E+00	0.345590E+01	0.296100E+00	0.164900E+00	0.250400E+00	0.109440E+01
14.000	0.158900E+00	0.298700E+00	0.344570E+01	0.273600E+00	0.190500E+00	0.247400E+00	0.110840E+01
14.200	0.146900E+00	0.296400E+00	0.343610E+01	0.253000E+00	0.216600E+00	0.240900E+00	0.110540E+01
14.400	0.136100E+00	0.292900E+00	0.342900E+01	0.234100E+00	0.242800E+00	0.231400E+00	0.109440E+01
14.600	0.126600E+00	0.288600E+00	0.341800E+01	0.217000E+00	0.268600E+00	0.219000E+00	0.107910E+01
14.800	0.118000E+00	0.283400E+00	0.340960E+01	0.201500E+00	0.293600E+00	0.204300E+00	0.106160E+01
15.000	0.110400E+00	0.277700E+00	0.340150E+01	0.187400E+00	0.317300E+00	0.187800E+00	0.104270E+01
15.200	0.103600E+00	0.271400E+00	0.339370E+01	0.174700E+00	0.339600E+00	0.169900E+00	0.102330E+01
15.400	0.975000E-01	0.264700E+00	0.338630E+01	0.163300E+00	0.360300E+00	0.151400E+00	0.100370E+01
15.600	0.920000E-01	0.257700E+00	0.337910E+01	0.152900E+00	0.379300E+00	0.132500E+00	0.984300E+00
15.800	0.871000E-01	0.250500E+00	0.337220E+01	0.143500E+00	0.396600E+00	0.114000E+00	0.965700E+00
16.200	0.787000E-01	0.235800E+00	0.335910E+01	0.127300E+00	0.426200E+00	0.789000E-01	0.929900E+00
16.400	0.750000E-01	0.228300E+00	0.335290E+01	0.120300E+00	0.438800E+00	0.630000E-01	0.913200E+00
16.600	0.717000E-01	0.220900E+00	0.334700E+01	0.113900E+00	0.450000E+00	0.484000E-01	0.897600E+00
16.800	0.687000E-01	0.213600E+00	0.334120E+01	0.108100E+00	0.459900E+00	0.352000E-01	0.883100E+00
17.000	0.660000E-01	0.206300E+00	0.333570E+01	0.102700E+00	0.468700E+00	0.234000E-01	0.869700E+00

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3	17.200	0.635000E-01	0.199100E+00	0.333030E+01	0.978000E-01	0.476500E+00	0.129000E-01	0.857600E+00
4	17.400	0.612000E-01	0.192100E+00	0.332510E+01	0.933000E-01	0.483400E+00	0.370000E-02	0.846600E+00
5	17.600	0.590000E-01	0.185300E+00	0.332010E+01	0.891000E-01	0.489500E+00	-0.430000E-02	0.836900E+00
6	17.800	0.571000E-01	0.178600E+00	0.331530E+01	0.852000E-01	0.494900E+00	-0.112000E-01	0.828500E+00
7	18.000	0.552000E-01	0.172100E+00	0.331070E+01	0.816000E-01	0.499700E+00	-0.171000E-01	0.821300E+00
8	18.200	0.535000E-01	0.165800E+00	0.330610E+01	0.783000E-01	0.503900E+00	-0.220000E-01	0.815400E+00
9	18.400	0.519000E-01	0.159700E+00	0.330180E+01	0.751000E-01	0.507700E+00	-0.262000E-01	0.810700E+00
10	18.600	0.504000E-01	0.153800E+00	0.329760E+01	0.722000E-01	0.511000E+00	-0.297000E-01	0.807100E+00
11	18.800	0.489000E-01	0.148100E+00	0.329350E+01	0.695000E-01	0.514000E+00	-0.326000E-01	0.804600E+00
12	19.000	0.476000E-01	0.142600E+00	0.328960E+01	0.669000E-01	0.516600E+00	-0.350000E-01	0.803300E+00
13	19.200	0.463000E-01	0.137300E+00	0.328580E+01	0.645000E-01	0.519000E+00	-0.370000E-01	0.803100E+00
14	19.400	0.451000E-01	0.132200E+00	0.328210E+01	0.622000E-01	0.521100E+00	-0.386000E-01	0.803800E+00
15	19.600	0.439000E-01	0.127300E+00	0.327860E+01	0.601000E-01	0.523000E+00	-0.398000E-01	0.805500E+00
16	19.800	0.428000E-01	0.122600E+00	0.327520E+01	0.580000E-01	0.524800E+00	-0.406000E-01	0.808100E+00
17	20.000	0.417000E-01	0.118000E+00	0.327180E+01	0.561000E-01	0.526300E+00	-0.413000E-01	0.811500E+00
18	20.200	0.407000E-01	0.113700E+00	0.326860E+01	0.543000E-01	0.527800E+00	-0.417000E-01	0.815800E+00
19	20.400	0.397000E-01	0.109500E+00	0.326550E+01	0.526000E-01	0.529100E+00	-0.419000E-01	0.820900E+00
20	20.600	0.388000E-01	0.105500E+00	0.326250E+01	0.510000E-01	0.530200E+00	-0.420000E-01	0.826500E+00
21	20.800	0.378000E-01	0.101700E+00	0.325960E+01	0.494000E-01	0.531300E+00	-0.420000E-01	0.832700E+00
22	21.200	0.361000E-01	0.945000E-01	0.325410E+01	0.465000E-01	0.533200E+00	-0.414000E-01	0.845800E+00
23	21.600	0.345000E-01	0.878000E-01	0.324890E+01	0.439000E-01	0.534800E+00	-0.405000E-01	0.857600E+00
24	22.000	0.330000E-01	0.817000E-01	0.324400E+01	0.415000E-01	0.536200E+00	-0.391000E-01	0.864200E+00
25	22.400	0.316000E-01	0.761000E-01	0.323940E+01	0.393000E-01	0.537400E+00	-0.373000E-01	0.860700E+00
26	22.600	0.309000E-01	0.735000E-01	0.323730E+01	0.383000E-01	0.538000E+00	-0.362000E-01	0.854100E+00
27	22.800	0.302000E-01	0.710000E-01	0.323510E+01	0.374000E-01	0.538500E+00	-0.350000E-01	0.844300E+00
28	23.000	0.296000E-01	0.686000E-01	0.323310E+01	0.364000E-01	0.539000E+00	-0.337000E-01	0.831400E+00
29	23.200	0.290000E-01	0.662000E-01	0.323110E+01	0.355000E-01	0.539500E+00	-0.323000E-01	0.816100E+00
30	23.800	0.272000E-01	0.598000E-01	0.322540E+01	0.331000E-01	0.540700E+00	-0.271000E-01	0.761800E+00
31	24.000	0.266000E-01	0.579000E-01	0.322360E+01	0.323000E-01	0.541100E+00	-0.251000E-01	0.743000E+00
32	24.200	0.261000E-01	0.560000E-01	0.322180E+01	0.316000E-01	0.541400E+00	-0.229000E-01	0.724300E+00
33	24.400	0.256000E-01	0.542000E-01	0.322020E+01	0.309000E-01	0.541700E+00	-0.206000E-01	0.706100E+00
34	24.600	0.251000E-01	0.524000E-01	0.321850E+01	0.302000E-01	0.542000E+00	-0.181000E-01	0.688400E+00
35	24.800	0.246000E-01	0.507000E-01	0.321690E+01	0.295000E-01	0.542300E+00	-0.153000E-01	0.671400E+00
36	25.000	0.241000E-01	0.491000E-01	0.321530E+01	0.289000E-01	0.542600E+00	-0.125000E-01	0.655000E+00
37	25.200	0.236000E-01	0.476000E-01	0.321380E+01	0.283000E-01	0.542900E+00	-0.940000E-02	0.639400E+00
38	25.400	0.231000E-01	0.461000E-01	0.321230E+01	0.277000E-01	0.543100E+00	-0.610000E-02	0.624300E+00
39	25.600	0.227000E-01	0.447000E-01	0.321090E+01	0.271000E-01	0.543300E+00	-0.260000E-02	0.609900E+00
40	25.800	0.223000E-01	0.433000E-01	0.320950E+01	0.266000E-01	0.543500E+00	-0.110000E-02	0.596100E+00
41	26.000	0.218000E-01	0.420000E-01	0.320810E+01	0.260000E-01	0.543700E+00	0.500000E-02	0.582800E+00
42	26.200	0.214000E-01	0.407000E-01	0.320680E+01	0.255000E-01	0.543900E+00	0.910000E-02	0.570000E+00
43	26.400	0.210000E-01	0.395000E-01	0.320550E+01	0.250000E-01	0.544100E+00	0.135000E-01	0.557700E+00
44	26.600	0.206000E-01	0.383000E-01	0.320420E+01	0.245000E-01	0.544300E+00	0.179000E-01	0.545800E+00
45	26.800	0.203000E-01	0.371000E-01	0.320300E+01	0.241000E-01	0.544400E+00	0.226000E-01	0.534400E+00
46	27.000	0.199000E-01	0.360000E-01	0.320180E+01	0.236000E-01	0.544600E+00	0.276000E-01	0.523300E+00
47	27.200	0.195000E-01	0.350000E-01	0.320060E+01	0.232000E-01	0.544700E+00	0.328000E-01	0.512600E+00
48	27.400	0.192000E-01	0.340000E-01	0.319950E+01	0.228000E-01	0.544800E+00	0.382000E-01	0.502200E+00
49	27.600	0.188000E-01	0.330000E-01	0.319840E+01	0.223000E-01	0.544900E+00	0.438000E-01	0.492100E+00
50	27.800	0.185000E-01	0.320000E-01	0.319730E+01	0.219000E-01	0.545000E+00	0.497000E-01	0.482300E+00
51	28.000	0.182000E-01	0.311000E-01	0.319620E+01	0.215000E-01	0.545100E+00	0.557000E-01	0.472800E+00
52	28.400	0.175000E-01	0.294000E-01	0.319420E+01	0.208000E-01	0.545200E+00	0.683000E-01	0.454600E+00
53	29.000	0.166000E-01	0.270000E-01	0.319130E+01	0.197000E-01	0.545300E+00	0.886000E-01	0.429000E+00
54	29.200	0.164000E-01	0.263000E-01	0.319040E+01	0.194000E-01	0.545400E+00	0.956000E-01	0.420900E+00
55	29.400	0.161000E-01	0.256000E-01	0.318950E+01	0.191000E-01	0.545400E+00	0.102900E+00	0.413000E+00
56	29.600	0.158000E-01	0.249000E-01	0.318820E+01	0.187000E-01	0.545400E+00	0.110300E+00	0.405200E+00
57	29.800	0.155000E-01	0.242000E-01	0.318780E+01	0.184000E-01	0.545400E+00	0.117800E+00	0.397700E+00
58	30.000	0.153000E-01	0.236000E-01	0.318700E+01	0.181000E-01	0.545400E+00	0.125400E+00	0.390300E+00
59	30.200	0.150000E-01	0.229000E-01	0.318620E+01	0.178000E-01	0.545400E+00	0.133200E+00	0.383100E+00
60	30.600	0.146000E-01	0.218000E-01	0.318460E+01	0.173000E-01	0.545400E+00	0.148900E+00	0.369200E+00

Table 2: $(2)^1\Pi - (2-7)^1\Pi$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.000	0.120150E+01	-0.117200E+00	0.649200E+00	-0.947600E+00	-0.159220E+01	0.453400E+00
3.200	0.132570E+01	-0.592000E-01	0.563400E+00	-0.988000E+00	-0.167600E+01	0.409000E+00
3.400	0.141480E+01	-0.201500E+00	0.548000E+00	-0.925000E+00	-0.178860E+01	0.425000E+00
3.600	0.147370E+01	-0.337400E+00	0.580000E+00	-0.813600E+00	-0.190070E+01	0.475400E+00
3.800	0.149870E+01	-0.484200E+00	0.637200E+00	-0.678400E+00	-0.199770E+01	0.542300E+00
4.000	0.148780E+01	-0.658400E+00	0.698900E+00	-0.532000E+00	-0.207740E+01	0.614600E+00
4.200	0.144110E+01	-0.873600E+00	0.746100E+00	-0.378500E+00	-0.214440E+01	0.688600E+00
4.400	0.135950E+01	-0.113530E+01	0.760400E+00	-0.216300E+00	-0.220220E+01	0.765000E+00
4.600	0.124320E+01	-0.143700E+01	0.726300E+00	0.418000E-01	-0.224930E+01	0.843900E+00
4.800	0.109340E+01	-0.175960E+01	0.637900E+00	0.148000E+00	-0.228020E+01	0.924300E+00
5.000	0.912700E+00	-0.207740E+01	0.504200E+00	0.351800E+00	-0.228910E+01	0.100370E+01
5.200	0.706600E+00	-0.236710E+01	0.348200E+00	0.564700E+00	-0.227360E+01	0.107900E+01
5.400	0.481600E+00	-0.261450E+01	0.197700E+00	0.779000E+00	-0.223670E+01	0.114760E+01
5.600	0.244800E+00	-0.281430E+01	0.773000E-01	0.987600E+00	-0.218600E+01	0.120850E+01
5.800	0.170000E-02	-0.296650E+01	-0.420000E-02	0.118620E+01	-0.213130E+01	0.126230E+01
6.000	-0.243600E+00	-0.307360E+01	-0.123000E-01	0.137320E+01	-0.208110E+01	0.131120E+01
6.200	-0.488600E+00	-0.313730E+01	-0.300000E-01	0.154950E+01	-0.204120E+01	0.135770E+01
6.800	-0.120680E+01	-0.307000E+01	-0.440800E+00	0.203100E+01	-0.200000E+01	0.149690E+01
7.000	-0.143610E+01	-0.296110E+01	-0.627500E+00	0.218080E+01	-0.200820E+01	0.154390E+01
7.400	-0.186660E+01	-0.263140E+01	-0.988500E+00	0.246940E+01	-0.204030E+01	0.163140E+01
7.600	-0.206170E+01	-0.242220E+01	-0.114500E+01	0.260800E+01	-0.206010E+01	0.166980E+01
7.800	-0.223860E+01	-0.219230E+01	-0.128120E+01	0.274190E+01	-0.208000E+01	0.170230E+01
8.000	-0.239300E+01	-0.194840E+01	-0.139810E+01	0.287060E+01	-0.209610E+01	0.172560E+01
8.200	-0.252140E+01	-0.169650E+01	-0.149860E+01	0.299270E+01	-0.210630E+01	0.173710E+01
8.400	-0.262180E+01	-0.144080E+01	-0.158520E+01	0.310630E+01	-0.211400E+01	0.173900E+01
8.600	-0.269170E+01	-0.118710E+01	-0.166170E+01	0.321010E+01	-0.211490E+01	0.172700E+01
8.800	-0.273060E+01	-0.939200E+00	-0.173030E+01	0.330250E+01	-0.211010E+01	0.170210E+01
9.000	-0.273880E+01	-0.701100E+00	-0.179300E+01	0.338180E+01	-0.209980E+01	0.166450E+01
9.200	-0.271750E+01	-0.476000E+00	-0.185040E+01	0.344670E+01	-0.208460E+01	0.161540E+01
9.400	-0.266870E+01	-0.266700E+00	-0.190240E+01	0.349640E+01	-0.206500E+01	0.155660E+01
9.800	-0.249950E+01	0.960000E-01	-0.198610E+01	0.354840E+01	-0.201610E+01	0.141800E+01
10.000	-0.238540E+01	0.246600E+00	-0.201420E+01	0.355110E+01	-0.198830E+01	0.134270E+01
10.200	-0.225650E+01	0.375700E+00	-0.203030E+01	0.353930E+01	-0.195930E+01	0.126620E+01
10.400	-0.211620E+01	0.483200E+00	-0.203260E+01	0.351420E+01	-0.192990E+01	0.119000E+01
10.600	-0.196850E+01	0.569400E+00	-0.201980E+01	0.347710E+01	-0.190050E+01	0.111540E+01
10.800	-0.181700E+01	0.635400E+00	-0.199110E+01	0.342950E+01	-0.187190E+01	0.104300E+01
11.000	-0.166500E+01	0.682400E+00	-0.194620E+01	0.337270E+01	-0.184420E+01	0.973100E+00
11.200	-0.151580E+01	0.712200E+00	-0.188580E+01	0.330810E+01	-0.181810E+01	0.905600E+00
11.400	-0.137180E+01	0.727000E+00	-0.181090E+01	0.323660E+01	-0.179360E+01	0.840100E+00
11.600	-0.123520E+01	0.729100E+00	-0.172330E+01	0.315900E+01	-0.177110E+01	0.775400E+00
11.800	-0.110730E+01	0.720700E+00	-0.162490E+01	0.307570E+01	-0.175050E+01	0.709600E+00
12.000	-0.989300E+00	0.704000E+00	-0.151810E+01	0.298700E+01	-0.173190E+01	0.639700E+00
12.200	-0.881400E+00	0.681000E+00	-0.140550E+01	0.289300E+01	-0.171530E+01	0.559500E+00
12.400	-0.783800E+00	0.653600E+00	-0.128950E+01	0.279360E+01	-0.170030E+01	0.457400E+00
12.600	-0.696200E+00	0.623400E+00	-0.117250E+01	0.268880E+01	-0.168660E+01	0.308800E+00
12.800	-0.618000E+00	0.591400E+00	-0.105680E+01	0.257860E+01	-0.167370E+01	0.595000E-01
13.000	-0.548600E+00	0.558900E+00	-0.944500E+00	0.246320E+01	-0.166080E+01	0.385800E+00
13.200	-0.487200E+00	0.526400E+00	-0.837000E+00	0.234300E+01	-0.164710E+01	0.101550E+01
13.400	-0.433200E+00	0.494700E+00	-0.735700E+00	0.221850E+01	-0.163150E+01	0.154060E+01
13.600	-0.385700E+00	0.464100E+00	-0.641300E+00	0.209070E+01	-0.161280E+01	0.187030E+01
13.800	-0.344000E+00	0.434800E+00	-0.554400E+00	0.196060E+01	-0.159010E+01	0.208660E+01
14.000	-0.307400E+00	0.407100E+00	-0.475000E+00	0.182950E+01	-0.156220E+01	0.224350E+01
14.200	-0.275300E+00	0.381100E+00	-0.403300E+00	0.169880E+01	-0.152810E+01	0.236350E+01
14.400	-0.247200E+00	0.356700E+00	-0.338700E+00	0.156970E+01	-0.148730E+01	0.246410E+01
14.600	-0.222400E+00	0.334100E+00	-0.281000E+00	0.144370E+01	-0.143950E+01	0.254560E+01
14.800	-0.200700E+00	0.313000E+00	-0.229800E+00	0.132200E+01	-0.138460E+01	0.261330E+01
15.000	-0.181600E+00	0.293500E+00	-0.184400E+00	0.120560E+01	-0.132310E+01	0.266930E+01
15.200	-0.164700E+00	0.275500E+00	-0.144300E+00	0.109540E+01	-0.125580E+01	0.271500E+01
15.400	-0.149800E+00	0.258900E+00	-0.109200E+00	0.991900E+00	-0.118380E+01	0.275130E+01
15.600	-0.136600E+00	0.243600E+00	-0.784000E-01	0.895500E+00	-0.110820E+01	0.277900E+01
15.800	-0.124800E+00	0.229500E+00	-0.515000E-01	0.806300E+00	-0.103050E+01	0.279870E+01
16.200	-0.105000E+00	0.204600E+00	-0.780000E-02	0.649300E+00	-0.874100E+00	0.281680E+01
16.400	-0.967000E-01	0.193700E+00	0.970000E-02	0.580900E+00	-0.797800E+00	0.281650E+01
16.600	-0.891000E-01	0.183600E+00	0.247000E-01	0.518900E+00	-0.724100E+00	0.281090E+01
16.800	-0.824000E-01	0.174400E+00	0.376000E-01	0.462800E+00	-0.653700E+00	0.280070E+01
17.000	-0.762000E-01	0.165900E+00	0.485000E-01	0.412100E+00	-0.587100E+00	0.278670E+01
17.200	-0.707000E-01	0.158000E+00	0.577000E-01	0.366500E+00	-0.524700E+00	0.276950E+01
17.400	-0.656000E-01	0.150800E+00	0.655000E-01	0.325400E+00	-0.466700E+00	0.275000E+01
17.600	-0.610000E-01	0.144100E+00	0.719000E-01	0.288600E+00	-0.413100E+00	0.272880E+01
17.800	-0.568000E-01	0.138000E+00	0.771000E-01	0.255600E+00	-0.363800E+00	0.270660E+01
18.000	-0.529000E-01	0.132300E+00	0.813000E-01	0.226100E+00	-0.318700E+00	0.268390E+01
18.200	-0.494000E-01	0.127000E+00	0.846000E-01	0.199600E+00	-0.277700E+00	0.266150E+01
18.400	-0.461000E-01	0.122100E+00	0.872000E-01	0.176100E+00	-0.240400E+00	0.263970E+01
18.600	-0.431000E-01	0.117600E+00	0.890000E-01	0.155000E+00	-0.206600E+00	0.261910E+01
18.800	-0.403000E-01	0.113300E+00	0.903000E-01	0.136200E+00	-0.176000E+00	0.260020E+01
19.000	-0.377000E-01	0.109400E+00	0.910000E-01	0.119500E+00	-0.148500E+00	0.258360E+01
19.200	-0.353000E-01	0.105700E+00	0.913000E-01	0.104700E+00	-0.123600E+00	0.256970E+01

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2						
3	19.400	-0.331000E-01	0.102200E+00	0.912000E-01	0.915000E-01	-0.101200E+00 0.255920E+01
4	19.600	-0.310000E-01	0.989000E-01	0.908000E-01	0.798000E-01	-0.812000E-01 0.255230E+01
5	19.800	-0.291000E-01	0.959000E-01	0.901000E-01	0.694000E-01	-0.634000E-01 0.254940E+01
6	20.000	-0.272000E-01	0.930000E-01	0.891000E-01	0.602000E-01	-0.473000E-01 0.255150E+01
7	20.200	-0.255000E-01	0.902000E-01	0.880000E-01	0.520000E-01	-0.330000E-01 0.255900E+01
8	20.400	-0.240000E-01	0.876000E-01	0.866000E-01	0.448000E-01	-0.202000E-01 0.257240E+01
9	20.600	-0.225000E-01	0.852000E-01	0.852000E-01	0.385000E-01	-0.870000E-02 0.259230E+01
10	20.800	-0.211000E-01	0.828000E-01	0.836000E-01	0.329000E-01	0.150000E-02 0.261920E+01
11	21.200	-0.186000E-01	0.784000E-01	0.802000E-01	0.237000E-01	0.186000E-01 0.269550E+01
12	21.600	-0.163000E-01	0.744000E-01	0.767000E-01	0.167000E-01	0.321000E-01 0.280180E+01
13	22.000	-0.144000E-01	0.707000E-01	0.730000E-01	0.113000E-01	0.424000E-01 0.293110E+01
14	22.400	-0.126000E-01	0.673000E-01	0.693000E-01	0.730000E-02	0.503000E-01 0.306700E+01
15	22.600	-0.118000E-01	0.657000E-01	0.674000E-01	0.570000E-02	0.534000E-01 0.313040E+01
16	22.800	-0.110000E-01	0.641000E-01	0.656000E-01	0.440000E-02	0.561000E-01 0.318720E+01
17	23.000	-0.103000E-01	0.626000E-01	0.638000E-01	0.320000E-02	0.584000E-01 0.323570E+01
18	23.200	-0.960000E-02	0.612000E-01	0.621000E-01	0.220000E-02	0.603000E-01 0.327540E+01
19	23.800	-0.780000E-02	0.571000E-01	0.570000E-01	0.100000E-03	0.641000E-01 0.334600E+01
20	24.000	-0.730000E-02	0.558000E-01	0.554000E-01	0.300000E-03	0.648000E-01 0.335700E+01
21	24.200	-0.670000E-02	0.545000E-01	0.538000E-01	-0.700000E-03	0.653000E-01 0.336360E+01
22	24.400	-0.630000E-02	0.533000E-01	0.522000E-01	-0.100000E-02	0.655000E-01 0.336710E+01
23	24.600	-0.580000E-02	0.521000E-01	0.507000E-01	-0.120000E-02	0.656000E-01 0.336790E+01
24	24.800	-0.540000E-02	0.510000E-01	0.493000E-01	-0.140000E-02	0.655000E-01 0.336680E+01
25	25.000	-0.490000E-02	0.499000E-01	0.478000E-01	-0.150000E-02	0.652000E-01 0.336420E+01
26	25.200	-0.450000E-02	0.488000E-01	0.464000E-01	-0.150000E-02	0.648000E-01 0.336050E+01
27	25.400	-0.420000E-02	0.478000E-01	0.451000E-01	-0.150000E-02	0.643000E-01 0.335600E+01
28	25.600	-0.380000E-02	0.468000E-01	0.438000E-01	-0.150000E-02	0.636000E-01 0.335080E+01
29	25.800	-0.350000E-02	0.458000E-01	0.425000E-01	-0.150000E-02	0.628000E-01 0.334460E+01
30	26.000	-0.310000E-02	0.448000E-01	0.413000E-01	-0.140000E-02	0.620000E-01 0.333930E+01
31	26.200	-0.280000E-02	0.439000E-01	0.401000E-01	-0.140000E-02	0.610000E-01 0.333330E+01
32	26.400	-0.250000E-02	0.430000E-01	0.390000E-01	-0.130000E-02	0.600000E-01 0.332690E+01
33	26.600	-0.230000E-02	0.421000E-01	0.379000E-01	-0.120000E-02	0.588000E-01 0.332030E+01
34	26.800	-0.200000E-02	0.412000E-01	0.368000E-01	-0.110000E-02	0.577000E-01 0.331370E+01
35	27.000	-0.180000E-02	0.404000E-01	0.357000E-01	-0.100000E-02	0.564000E-01 0.330690E+01
36	27.200	-0.150000E-02	0.395000E-01	0.347000E-01	-0.800000E-03	0.551000E-01 0.330010E+01
37	27.400	-0.130000E-02	0.387000E-01	0.338000E-01	-0.700000E-03	0.538000E-01 0.329330E+01
38	27.600	-0.110000E-02	0.380000E-01	0.328000E-01	-0.600000E-03	0.524000E-01 0.328640E+01
39	27.800	-0.900000E-03	0.372000E-01	0.319000E-01	-0.500000E-03	0.510000E-01 0.327940E+01
40	28.000	-0.700000E-03	0.365000E-01	0.310000E-01	-0.300000E-03	0.495000E-01 0.327250E+01
41	28.400	-0.300000E-03	0.351000E-01	0.293000E-01	0.100000E-03	0.464000E-01 0.325850E+01
42	29.000	0.200000E-03	0.331000E-01	0.270000E-01	0.300000E-03	0.417000E-01 0.323760E+01
43	29.200	0.300000E-03	0.324000E-01	0.263000E-01	0.400000E-03	0.401000E-01 0.323070E+01
44	29.400	0.500000E-03	0.318000E-01	0.256000E-01	0.500000E-03	0.384000E-01 0.322370E+01
45	29.600	0.600000E-03	0.312000E-01	0.249000E-01	0.600000E-03	0.368000E-01 0.321660E+01
46	29.800	0.700000E-03	0.306000E-01	0.242000E-01	0.700000E-03	0.351000E-01 0.320990E+01
47	30.000	0.800000E-03	0.300000E-01	0.236000E-01	0.800000E-03	0.334000E-01 0.320310E+01
48	30.200	0.100000E-02	0.295000E-01	0.229000E-01	0.900000E-03	0.317000E-01 0.319620E+01
49	30.600	0.120000E-02	0.284000E-01	0.218000E-01	0.110000E-02	0.282000E-01 0.318270E+01

Table 3: $(3)^1\Pi - (3-7)^1\Pi$ transitions

R	3-3	3-4	3-5	3-6	3-7
3.000	-0.292030E+01	-0.201630E+01	-0.381500E+00	-0.174630E+01	0.111800E+00
3.200	-0.304670E+01	-0.181330E+01	-0.857400E+00	-0.142800E+01	0.240700E+00
3.400	-0.308150E+01	-0.173640E+01	-0.117460E+01	-0.119300E+01	0.315900E+00
3.600	-0.308540E+01	-0.171970E+01	-0.145350E+01	-0.980900E+00	0.326500E+00
3.800	-0.307990E+01	-0.173760E+01	-0.173770E+01	-0.777800E+00	0.278600E+00
4.000	-0.307960E+01	-0.177490E+01	-0.204780E+01	-0.589400E+00	0.185500E+00
4.200	-0.309170E+01	-0.181770E+01	-0.239390E+01	-0.421900E+00	-0.570000E-01
4.400	-0.311180E+01	-0.185050E+01	-0.277770E+01	-0.272100E+00	-0.102400E+00
4.600	-0.311900E+01	-0.186080E+01	-0.319040E+01	-0.131000E+00	-0.287200E+00
4.800	-0.308080E+01	-0.184480E+01	-0.361360E+01	0.164000E-01	-0.483100E+00
5.000	-0.296520E+01	-0.181130E+01	-0.402390E+01	0.184600E+00	-0.667800E+00
5.200	-0.275680E+01	-0.177390E+01	-0.439990E+01	0.383100E+00	-0.819600E+00
5.400	-0.246030E+01	-0.174150E+01	-0.472540E+01	0.614500E+00	-0.924500E+00
5.600	-0.209390E+01	-0.171350E+01	-0.498880E+01	0.875800E+00	-0.977200E+00
5.800	-0.167930E+01	-0.168260E+01	-0.518100E+01	0.116090E+01	-0.978900E+00
6.000	-0.123680E+01	-0.163780E+01	-0.529500E+01	0.146100E+01	-0.933600E+00
6.200	-0.784400E+00	-0.156730E+01	-0.532570E+01	0.176530E+01	-0.846800E+00
6.800	0.459900E+00	-0.112080E+01	-0.491870E+01	0.257090E+01	-0.413200E+00
7.000	0.782000E+00	-0.899000E+00	-0.464460E+01	0.276400E+01	-0.244800E+00
7.400	0.123610E+01	-0.423500E+00	-0.399410E+01	0.300560E+01	-0.641000E-01
7.600	0.137420E+01	-0.198600E+00	-0.365660E+01	0.306430E+01	0.188200E+00
7.800	0.146380E+01	-0.540000E-02	-0.333020E+01	0.309320E+01	0.287700E+00
8.000	0.151630E+01	0.185100E+00	-0.302220E+01	0.309670E+01	0.363500E+00
8.200	0.154060E+01	0.341200E+00	-0.273640E+01	0.307950E+01	0.417400E+00
8.400	0.153940E+01	0.476100E+00	-0.247550E+01	0.305700E+01	0.448900E+00
8.600	0.152080E+01	0.593600E+00	-0.223730E+01	0.302430E+01	0.462100E+00
8.800	0.148680E+01	0.697600E+00	-0.202070E+01	0.298780E+01	0.458700E+00
9.000	0.143970E+01	0.791700E+00	-0.182360E+01	0.294960E+01	0.440600E+00
9.200	0.138110E+01	0.879400E+00	-0.164380E+01	0.291130E+01	0.410000E+00
9.400	0.131240E+01	0.963500E+00	-0.147900E+01	0.287420E+01	0.368900E+00
9.800	0.115060E+01	0.112870E+01	-0.118790E+01	0.280530E+01	0.262700E+00
10.000	0.106040E+01	0.121200E+01	-0.105860E+01	0.277410E+01	0.201200E+00
10.200	0.966500E+00	0.129620E+01	-0.938800E+00	0.274500E+01	0.136100E+00
10.400	0.870600E+00	0.138080E+01	-0.827600E+00	0.271780E+01	0.687000E-01
10.800	0.681000E+00	0.154680E+01	-0.628600E+00	0.266780E+01	-0.694000E-01
11.000	0.590900E+00	0.162570E+01	-0.539800E+00	0.264440E+01	-0.139000E+00
11.200	0.505900E+00	0.170010E+01	-0.457500E+00	0.262190E+01	-0.209100E+00
11.400	0.427100E+00	0.176900E+01	-0.381100E+00	0.260010E+01	-0.279900E+00
11.600	0.355200E+00	0.183140E+01	-0.310200E+00	0.257880E+01	-0.352700E+00
11.800	0.290400E+00	0.188680E+01	-0.244300E+00	0.255810E+01	-0.429500E+00
12.000	0.232900E+00	0.193520E+01	-0.183100E+00	0.253810E+01	-0.513500E+00
12.200	0.182200E+00	0.197640E+01	-0.126300E+00	0.251910E+01	-0.610800E+00
12.400	0.138000E+00	0.201090E+01	-0.739000E-01	0.250150E+01	-0.732600E+00
12.600	0.995000E-01	0.203920E+01	-0.260000E-01	0.248550E+01	-0.899000E+00
12.800	0.663000E-01	0.206200E+01	0.175000E-01	0.247170E+01	-0.114830E+01
13.000	0.377000E-01	0.207990E+01	0.562000E-01	0.246050E+01	-0.152200E+01
13.200	0.130000E-01	0.209370E+01	0.900000E-01	0.245210E+01	-0.192400E+01
13.400	-0.820000E-02	0.210420E+01	0.119000E+00	0.244710E+01	-0.214340E+01
13.600	-0.265000E-01	0.211190E+01	0.143100E+00	0.244570E+01	-0.221690E+01
13.800	-0.422000E-01	0.211760E+01	0.162500E+00	0.244790E+01	-0.223270E+01
14.000	-0.558000E-01	0.212160E+01	0.177700E+00	0.245380E+01	-0.222430E+01
14.200	-0.674000E-01	0.212450E+01	0.189100E+00	0.246320E+01	-0.220240E+01
14.400	-0.773000E-01	0.212650E+01	0.197200E+00	0.247600E+01	-0.217190E+01
14.600	-0.859000E-01	0.212800E+01	0.202700E+00	0.249170E+01	-0.213430E+01
14.800	-0.931000E-01	0.212890E+01	0.206000E+00	0.250960E+01	-0.209040E+01
15.000	-0.993000E-01	0.212960E+01	0.208000E+00	0.252920E+01	-0.204160E+01
15.200	-0.104400E+00	0.213010E+01	0.209000E+00	0.254970E+01	-0.198830E+01
15.400	-0.108700E+00	0.213040E+01	0.209300E+00	0.257020E+01	-0.193140E+01
15.600	-0.112100E+00	0.213060E+01	0.209400E+00	0.259010E+01	-0.187170E+01
15.800	-0.114800E+00	0.213060E+01	0.209400E+00	0.260860E+01	-0.181120E+01
16.200	-0.118300E+00	0.213020E+01	0.209400E+00	0.263900E+01	-0.168320E+01
16.400	-0.119200E+00	0.212980E+01	0.209500E+00	0.265000E+01	-0.161990E+01
16.600	-0.119600E+00	0.212910E+01	0.209600E+00	0.265820E+01	-0.155860E+01
16.800	-0.119500E+00	0.212830E+01	0.209700E+00	0.266280E+01	-0.149800E+01
17.000	-0.119100E+00	0.212720E+01	0.209600E+00	0.266400E+01	-0.143900E+01
17.200	-0.118300E+00	0.212600E+01	0.209400E+00	0.266180E+01	-0.138230E+01
17.400	-0.117200E+00	0.212450E+01	0.209000E+00	0.265640E+01	-0.132800E+01
17.600	-0.115800E+00	0.212280E+01	0.208300E+00	0.264790E+01	-0.127610E+01
17.800	-0.114100E+00	0.212090E+01	0.207300E+00	0.263650E+01	-0.122690E+01
18.000	-0.112200E+00	0.211870E+01	0.206000E+00	0.262240E+01	-0.118030E+01
18.200	-0.110200E+00	0.211640E+01	0.204400E+00	0.260590E+01	-0.113620E+01
18.400	-0.108000E+00	0.211390E+01	0.202400E+00	0.258720E+01	-0.109450E+01
18.600	-0.105700E+00	0.211130E+01	0.200000E+00	0.256640E+01	-0.105500E+01
18.800	-0.103300E+00	0.210840E+01	0.197400E+00	0.254360E+01	-0.101720E+01
19.000	-0.100800E+00	0.210550E+01	0.194400E+00	0.251930E+01	-0.981500E+00
19.200	-0.983000E-01	0.210240E+01	0.191200E+00	0.249290E+01	-0.946500E+00
19.400	-0.957000E-01	0.209920E+01	0.187800E+00	0.246530E+01	-0.913000E+00

1						
2						
3	19.600	-0.932000E-01	0.209600E+01	0.184000E+00	0.243710E+01	-0.881600E+00
4	19.800	-0.906000E-01	0.209260E+01	0.179700E+00	0.240840E+01	-0.852000E+00
5	20.000	-0.881000E-01	0.208920E+01	0.175400E+00	0.237830E+01	-0.822200E+00
6	20.200	-0.856000E-01	0.208580E+01	0.171000E+00	0.234750E+01	-0.792800E+00
7	20.400	-0.832000E-01	0.208240E+01	0.166400E+00	0.231590E+01	-0.763500E+00
8	20.600	-0.808000E-01	0.207900E+01	0.161700E+00	0.228380E+01	-0.733900E+00
9	20.800	-0.785000E-01	0.207550E+01	0.156900E+00	0.225120E+01	-0.703900E+00
10	21.200	-0.742000E-01	0.206880E+01	0.147100E+00	0.218500E+01	-0.640700E+00
11	21.600	-0.701000E-01	0.206220E+01	0.137400E+00	0.211710E+01	-0.570800E+00
12	22.000	-0.664000E-01	0.205590E+01	0.127600E+00	0.204930E+01	-0.493100E+00
13	22.400	-0.630000E-01	0.204990E+01	0.118000E+00	0.198130E+01	-0.408400E+00
14	22.600	-0.615000E-01	0.204700E+01	0.113300E+00	0.194730E+01	-0.365100E+00
15	22.800	-0.600000E-01	0.204420E+01	0.108800E+00	0.191340E+01	-0.322500E+00
16	23.000	-0.586000E-01	0.204150E+01	0.104300E+00	0.187960E+01	-0.281600E+00
17	23.200	-0.573000E-01	0.203890E+01	0.999000E-01	0.184590E+01	-0.243300E+00
18	23.800	-0.538000E-01	0.203170E+01	0.874000E-01	0.174590E+01	-0.149000E+00
19	24.000	-0.527000E-01	0.202960E+01	0.837000E-01	0.171260E+01	-0.124700E+00
20	24.200	-0.518000E-01	0.202740E+01	0.799000E-01	0.168000E+01	-0.103800E+00
21	24.400	-0.508000E-01	0.202540E+01	0.762000E-01	0.164750E+01	-0.857000E-01
22	24.600	-0.500000E-01	0.202350E+01	0.728000E-01	0.161520E+01	-0.701000E-01
23	24.800	-0.492000E-01	0.202170E+01	0.694000E-01	0.158310E+01	-0.568000E-01
24	25.000	-0.484000E-01	0.202000E+01	0.663000E-01	0.155120E+01	-0.455000E-01
25	25.200	-0.477000E-01	0.201830E+01	0.632000E-01	0.151960E+01	-0.358000E-01
26	25.400	-0.470000E-01	0.201680E+01	0.603000E-01	0.148820E+01	-0.276000E-01
27	25.600	-0.464000E-01	0.201530E+01	0.576000E-01	0.145710E+01	-0.207000E-01
28	25.800	-0.457000E-01	0.201390E+01	0.550000E-01	0.142620E+01	-0.148000E-01
29	26.000	-0.452000E-01	0.201260E+01	0.525000E-01	0.139560E+01	-0.980000E-02
30	26.200	-0.446000E-01	0.201130E+01	0.501000E-01	0.136520E+01	-0.550000E-02
31	26.400	-0.441000E-01	0.201020E+01	0.479000E-01	0.133520E+01	-0.200000E-02
32	26.600	-0.436000E-01	0.200900E+01	0.457000E-01	0.130570E+01	0.100000E-02
33	26.800	-0.431000E-01	0.200800E+01	0.438000E-01	0.127620E+01	0.350000E-02
34	27.000	-0.426000E-01	0.200700E+01	0.419000E-01	0.124680E+01	0.560000E-02
35	27.200	-0.422000E-01	0.200600E+01	0.402000E-01	0.121780E+01	0.740000E-02
36	27.400	-0.418000E-01	0.200520E+01	0.386000E-01	0.118900E+01	0.890000E-02
37	27.600	-0.414000E-01	0.200430E+01	0.371000E-01	0.116050E+01	0.101000E-01
38	27.800	-0.410000E-01	0.200350E+01	0.357000E-01	0.113240E+01	0.111000E-01
39	28.000	-0.406000E-01	0.200280E+01	0.344000E-01	0.110450E+01	0.119000E-01
40	28.400	-0.398000E-01	0.200140E+01	0.321000E-01	0.104960E+01	0.130000E-01
41	29.000	-0.387000E-01	0.199960E+01	0.293000E-01	0.969700E+00	0.138000E-01
42	29.200	-0.384000E-01	0.199910E+01	0.285000E-01	0.943700E+00	0.139000E-01
43	29.400	-0.381000E-01	0.199850E+01	0.278000E-01	0.918100E+00	0.139000E-01
44	29.600	-0.377000E-01	0.199780E+01	0.271000E-01	0.892800E+00	0.139000E-01
45	29.800	-0.374000E-01	0.199760E+01	0.265000E-01	0.868000E+00	0.138000E-01
46	30.000	-0.371000E-01	0.199710E+01	0.260000E-01	0.843500E+00	0.137000E-01
47	30.200	-0.367000E-01	0.199670E+01	0.255000E-01	0.819400E+00	0.135000E-01
48	30.600	-0.361000E-01	0.199590E+01	0.247000E-01	0.772100E+00	0.131000E-01
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57						
58						
59						
60						

Table 4: $(1)^3\Pi - (1-7)^3\Pi$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
3.000	-0.141990E+01	0.144460E+01	0.207170E+01	-0.639200E+00	0.146850E+01	0.854300E+00	0.553000E-01
3.200	-0.154720E+01	0.136790E+01	0.211580E+01	-0.766300E+00	0.132170E+01	0.847200E+00	0.330400E+00
3.400	-0.162340E+01	0.133310E+01	0.214670E+01	-0.840000E+00	0.121590E+01	0.823000E+00	0.493600E+00
3.600	-0.167070E+01	0.132650E+01	0.216770E+01	-0.881600E+00	0.114080E+01	0.806300E+00	0.511000E+00
3.800	-0.170000E+01	0.133820E+01	0.218140E+01	-0.901300E+00	0.108780E+01	0.793300E+00	0.513500E+00
4.000	-0.171700E+01	0.136220E+01	0.219110E+01	-0.901100E+00	0.105110E+01	0.782800E+00	0.515700E+00
4.200	-0.172510E+01	0.139550E+01	0.220270E+01	-0.872800E+00	0.102770E+01	0.774900E+00	0.518800E+00
4.400	-0.172680E+01	0.143690E+01	0.223140E+01	-0.774400E+00	0.101730E+01	0.769700E+00	0.522700E+00
4.600	-0.172420E+01	0.148620E+01	0.233200E+01	-0.269600E+00	0.102160E+01	0.767300E+00	0.527400E+00
4.800	-0.171910E+01	0.154280E+01	0.164440E+01	-0.164440E+01	0.104420E+01	0.767500E+00	0.533100E+00
5.000	-0.171290E+01	0.160630E+01	0.132470E+01	-0.187130E+01	0.109070E+01	0.771000E+00	0.539900E+00
5.200	-0.170690E+01	0.167570E+01	0.123800E+01	-0.187290E+01	0.116810E+01	0.778300E+00	0.548200E+00
5.400	-0.170190E+01	0.174970E+01	0.119790E+01	-0.181420E+01	0.128320E+01	0.791000E+00	0.558300E+00
5.600	-0.169830E+01	0.182720E+01	0.117290E+01	-0.170580E+01	0.143670E+01	0.811000E+00	0.570400E+00
5.800	-0.169670E+01	0.190690E+01	0.115310E+01	-0.155030E+01	0.161210E+01	0.840400E+00	0.584700E+00
6.000	-0.169690E+01	0.198770E+01	0.113460E+01	-0.137310E+01	0.177400E+01	0.878900E+00	0.600700E+00
6.200	-0.169910E+01	0.206880E+01	0.111510E+01	-0.122290E+01	0.189390E+01	0.919600E+00	0.617800E+00
6.800	-0.171480E+01	0.230610E+01	0.103480E+01	-0.120320E+01	0.205550E+01	0.910600E+00	0.668200E+00
7.000	-0.172200E+01	0.238120E+01	0.994000E+00	-0.132990E+01	0.206840E+01	0.854600E+00	0.682800E+00
7.400	-0.173710E+01	0.252210E+01	0.865200E+00	-0.167730E+01	0.203760E+01	0.724500E+00	0.707700E+00
7.600	-0.174390E+01	0.258720E+01	0.755900E+00	-0.186610E+01	0.200620E+01	0.663000E+00	0.718000E+00
7.800	-0.174950E+01	0.264820E+01	0.585800E+00	-0.205390E+01	0.197360E+01	0.606000E+00	0.727000E+00
8.000	-0.175320E+01	0.270470E+01	0.306200E+00	-0.223080E+01	0.194380E+01	0.553000E+00	0.734600E+00
8.200	-0.175430E+01	0.275640E+01	0.150700E+00	-0.235600E+01	0.191840E+01	0.503000E+00	0.740600E+00
8.400	-0.175200E+01	0.280320E+01	0.762900E+00	-0.234280E+01	0.189710E+01	0.455000E+00	0.745000E+00
8.600	-0.174560E+01	0.284460E+01	0.131870E+01	-0.219660E+01	0.187870E+01	0.407900E+00	0.747300E+00
8.800	-0.173410E+01	0.288040E+01	0.170440E+01	-0.203700E+01	0.186190E+01	0.361100E+00	0.747100E+00
9.000	-0.171670E+01	0.291030E+01	0.196750E+01	-0.191550E+01	0.184500E+01	0.313900E+00	0.744100E+00
9.200	-0.169250E+01	0.293420E+01	0.216250E+01	-0.182830E+01	0.182670E+01	0.266000E+00	0.736400E+00
9.400	-0.166070E+01	0.295150E+01	0.231900E+01	-0.176280E+01	0.180590E+01	0.217200E+00	0.717600E+00
9.800	-0.157150E+01	0.296520E+01	0.256830E+01	-0.165690E+01	0.175550E+01	0.118200E+00	0.970300E+00
10.000	-0.151330E+01	0.296040E+01	0.267270E+01	-0.160190E+01	0.172670E+01	0.694000E-01	0.107730E+01
10.200	-0.144590E+01	0.294700E+01	0.276710E+01	-0.153780E+01	0.169650E+01	0.230000E-01	0.116840E+01
10.400	-0.136990E+01	0.292420E+01	0.285260E+01	-0.146070E+01	0.166600E+01	0.182000E-01	0.125920E+01
10.600	-0.128600E+01	0.289120E+01	0.293010E+01	-0.136820E+01	0.163520E+01	0.503000E-01	0.135040E+01
10.800	-0.119580E+01	0.284750E+01	0.299990E+01	-0.126010E+01	0.160330E+01	0.662000E-01	0.144080E+01
11.000	-0.110070E+01	0.279240E+01	0.306250E+01	-0.113800E+01	0.156840E+01	0.529000E-01	0.152870E+01
11.200	-0.100300E+01	0.272590E+01	0.311830E+01	-0.100530E+01	0.152850E+01	-0.154000E-01	0.161060E+01
11.400	-0.904800E+00	0.264800E+01	0.316780E+01	-0.866700E+00	0.148120E+01	-0.191200E+00	0.167270E+01
11.600	-0.808100E+00	0.255910E+01	0.321170E+01	-0.727000E+00	0.142520E+01	-0.536700E+00	0.166270E+01
11.800	-0.714800E+00	0.246010E+01	0.325060E+01	-0.590600E+00	0.136010E+01	-0.945600E+00	0.153250E+01
12.000	-0.626500E+00	0.235210E+01	0.328510E+01	-0.461300E+00	0.128640E+01	-0.120540E+01	0.139550E+01
12.200	-0.544400E+00	0.223660E+01	0.331580E+01	-0.342000E+00	0.120580E+01	-0.132650E+01	0.132790E+01
12.400	-0.469200E+00	0.211500E+01	0.334320E+01	-0.234500E+00	0.112060E+01	-0.137040E+01	0.131560E+01
12.600	-0.401100E+00	0.198910E+01	0.336740E+01	-0.139800E+00	0.103360E+01	-0.136580E+01	0.133910E+01
12.800	-0.340300E+00	0.186060E+01	0.338860E+01	-0.583000E-01	0.947400E+00	-0.132300E+01	0.138700E+01
13.000	-0.286400E+00	0.173150E+01	0.340690E+01	0.103000E-01	0.864600E+00	-0.124450E+01	0.145210E+01
13.200	-0.239100E+00	0.160360E+01	0.342210E+01	0.666000E-01	0.787000E+00	-0.113130E+01	0.152770E+01
13.400	-0.197800E+00	0.147860E+01	0.343420E+01	0.111400E+00	0.715900E+00	-0.986300E+00	0.160460E+01
13.600	-0.162000E+00	0.135820E+01	0.344320E+01	0.145700E+00	0.651900E+00	-0.818800E+00	0.167170E+01
13.800	-0.131000E+00	0.124350E+01	0.344920E+01	0.170700E+00	0.595300E+00	-0.644000E+00	0.171920E+01
14.000	-0.104400E+00	0.113570E+01	0.345240E+01	0.187400E+00	0.545700E+00	-0.478400E+00	0.174340E+01
14.200	-0.815000E-01	0.103540E+01	0.345310E+01	0.196900E+00	0.502700E+00	-0.333000E+00	0.174680E+01
14.400	-0.618000E-01	0.942900E+00	0.345170E+01	0.200500E+00	0.465600E+00	-0.211600E+00	0.173520E+01
14.600	-0.451000E-01	0.858300E+00	0.344840E+01	0.199100E+00	0.433800E+00	-0.112800E+00	0.171400E+01
14.800	-0.308000E-01	0.781400E+00	0.344370E+01	0.193600E+00	0.406600E+00	-0.333000E-01	0.168720E+01
15.000	-0.186000E-01	0.711900E+00	0.343780E+01	0.185000E+00	0.383500E+00	0.307000E-01	0.165780E+01
15.200	-0.820000E-02	0.649300E+00	0.343110E+01	0.174100E+00	0.363800E+00	0.825000E-01	0.162740E+01
15.400	0.500000E-03	0.593100E+00	0.342370E+01	0.161600E+00	0.347100E+00	0.124700E+00	0.159710E+01
15.600	0.800000E-02	0.542700E+00	0.341590E+01	0.148000E+00	0.333100E+00	0.159600E+00	0.156730E+01
15.800	0.142000E-01	0.497600E+00	0.340790E+01	0.133900E+00	0.321300E+00	0.188600E+00	0.153840E+01
16.200	0.239000E-01	0.421000E+00	0.339160E+01	0.105800E+00	0.303500E+00	0.233600E+00	0.148400E+01
16.400	0.275000E-01	0.388500E+00	0.338350E+01	0.924000E-01	0.296900E+00	0.251300E+00	0.145810E+01
16.600	0.306000E-01	0.359400E+00	0.337560E+01	0.798000E-01	0.291800E+00	0.266600E+00	0.143280E+01
16.800	0.330000E-01	0.333200E+00	0.336780E+01	0.682000E-01	0.287800E+00	0.280000E+00	0.140830E+01
17.000	0.350000E-01	0.309600E+00	0.336030E+01	0.575000E-01	0.285000E+00	0.291600E+00	0.138460E+01
17.200	0.367000E-01	0.288400E+00	0.335300E+01	0.480000E-01	0.283100E+00	0.301900E+00	0.136120E+01
17.400	0.379000E-01	0.269200E+00	0.334590E+01	0.397000E-01	0.282200E+00	0.311000E+00	0.133800E+01
17.600	0.389000E-01	0.251800E+00	0.333910E+01	0.325000E-01	0.282100E+00	0.319100E+00	0.131500E+01
17.800	0.396000E-01	0.236000E+00	0.332600E+01	0.265000E-01	0.282800E+00	0.326300E+00	0.129180E+01
18.000	0.401000E-01	0.221600E+00	0.332640E+01	0.216000E-01	0.284100E+00	0.332700E+00	0.126850E+01
18.200	0.403000E-01	0.208500E+00	0.332040E+01	0.177000E-01	0.286100E+00	0.338400E+00	0.124500E+01
18.400	0.405000E-01	0.196500E+00	0.331470E+01	0.148000E-01	0.288600E+00	0.343400E+00	0.122120E+01
18.600	0.405000E-01	0.185500E+00	0.330920E+01	0.128000E-01	0.291700E+00	0.347800E+00	0.119730E+01
18.800	0.404000E-01	0.175400E+00	0.330400E+01	0.116000E-01	0.295100E+00	0.351700E+00	0.117340E+01
19.000	0.402000E-01	0.166200E+00	0.329900E+01	0.110000E-01	0.299000E+00	0.355000E+00	0.114950E+01
19.200	0.399000E-01	0.157600E+00	0.329430E+01	0.109000E-01	0.303300E+00	0.357900E+00	0.112600E+01

1								
2								
3	19.400	0.395000E-01	0.149700E+00	0.328970E+01	0.113300E-01	0.307900E+00	0.360200E+00	0.110330E+01
4	19.600	0.391000E-01	0.142400E+00	0.328540E+01	0.120000E-01	0.312800E+00	0.361900E+00	0.108100E+01
5	19.800	0.386000E-01	0.135500E+00	0.328120E+01	0.128000E-01	0.318000E+00	0.363200E+00	0.105920E+01
6	20.000	0.381000E-01	0.129200E+00	0.327730E+01	0.139000E-01	0.323400E+00	0.364000E+00	0.103890E+01
7	20.200	0.376000E-01	0.123300E+00	0.327350E+01	0.150000E-01	0.329100E+00	0.364300E+00	0.102000E+01
8	20.400	0.370000E-01	0.117800E+00	0.326980E+01	0.161000E-01	0.335100E+00	0.364100E+00	0.100240E+01
9	20.600	0.364000E-01	0.112600E+00	0.326640E+01	0.172000E-01	0.341300E+00	0.363400E+00	0.986400E+00
10	20.800	0.358000E-01	0.107800E+00	0.326300E+01	0.182000E-01	0.347700E+00	0.362200E+00	0.971900E+00
11	21.200	0.346000E-01	0.099000E-01	0.325680E+01	0.202000E-01	0.361100E+00	0.358200E+00	0.947000E+00
12	21.600	0.334000E-01	0.912000E-01	0.325100E+01	0.218000E-01	0.375100E+00	0.352200E+00	0.926400E+00
13	22.000	0.321000E-01	0.842000E-01	0.324570E+01	0.230000E-01	0.389600E+00	0.344300E+00	0.907200E+00
14	22.400	0.309000E-01	0.779000E-01	0.324070E+01	0.239000E-01	0.404400E+00	0.334600E+00	0.887000E+00
15	22.600	0.303000E-01	0.751000E-01	0.323840E+01	0.242000E-01	0.411700E+00	0.329100E+00	0.875900E+00
16	22.800	0.297000E-01	0.723000E-01	0.323610E+01	0.245000E-01	0.419000E+00	0.323300E+00	0.863800E+00
17	23.000	0.292000E-01	0.697000E-01	0.323390E+01	0.247000E-01	0.426300E+00	0.317100E+00	0.850600E+00
18	23.200	0.286000E-01	0.672000E-01	0.323180E+01	0.248000E-01	0.433400E+00	0.310700E+00	0.836400E+00
19	23.800	0.270000E-01	0.605000E-01	0.322590E+01	0.249000E-01	0.453500E+00	0.290200E+00	0.787900E+00
20	24.000	0.264000E-01	0.584000E-01	0.322410E+01	0.249000E-01	0.459700E+00	0.283200E+00	0.770400E+00
21	24.200	0.259000E-01	0.564000E-01	0.322230E+01	0.248000E-01	0.465700E+00	0.276200E+00	0.752500E+00
22	24.400	0.254000E-01	0.545000E-01	0.322050E+01	0.247000E-01	0.471400E+00	0.269200E+00	0.734100E+00
23	24.600	0.249000E-01	0.528000E-01	0.321880E+01	0.246000E-01	0.476700E+00	0.262300E+00	0.715800E+00
24	24.800	0.245000E-01	0.510000E-01	0.321720E+01	0.245000E-01	0.481800E+00	0.255500E+00	0.697600E+00
25	25.000	0.240000E-01	0.494000E-01	0.321560E+01	0.243000E-01	0.486600E+00	0.248800E+00	0.679800E+00
26	25.200	0.235000E-01	0.478000E-01	0.321400E+01	0.241000E-01	0.491100E+00	0.242300E+00	0.662400E+00
27	25.400	0.231000E-01	0.463000E-01	0.321250E+01	0.239000E-01	0.495300E+00	0.236100E+00	0.645500E+00
28	25.600	0.226000E-01	0.448000E-01	0.321110E+01	0.237000E-01	0.499200E+00	0.230000E+00	0.629100E+00
29	25.800	0.222000E-01	0.434000E-01	0.320960E+01	0.234000E-01	0.502800E+00	0.224300E+00	0.613400E+00
30	26.000	0.218000E-01	0.421000E-01	0.320830E+01	0.232000E-01	0.506200E+00	0.218800E+00	0.598200E+00
31	26.200	0.214000E-01	0.408000E-01	0.320690E+01	0.229000E-01	0.509300E+00	0.213500E+00	0.583700E+00
32	26.400	0.210000E-01	0.395000E-01	0.320560E+01	0.227000E-01	0.512200E+00	0.208600E+00	0.569800E+00
33	26.600	0.206000E-01	0.384000E-01	0.320430E+01	0.224000E-01	0.514900E+00	0.203800E+00	0.556400E+00
34	26.800	0.202000E-01	0.372000E-01	0.320310E+01	0.221000E-01	0.517400E+00	0.199400E+00	0.543500E+00
35	27.000	0.199000E-01	0.361000E-01	0.320190E+01	0.219000E-01	0.519700E+00	0.195300E+00	0.531200E+00
36	27.200	0.195000E-01	0.350000E-01	0.320070E+01	0.216000E-01	0.521800E+00	0.191400E+00	0.519400E+00
37	27.400	0.191000E-01	0.340000E-01	0.319950E+01	0.213000E-01	0.523700E+00	0.187800E+00	0.508000E+00
38	27.600	0.188000E-01	0.330000E-01	0.319840E+01	0.210000E-01	0.525500E+00	0.184500E+00	0.497000E+00
39	27.800	0.185000E-01	0.321000E-01	0.319730E+01	0.207000E-01	0.527100E+00	0.181400E+00	0.486400E+00
40	28.000	0.181000E-01	0.312000E-01	0.319630E+01	0.205000E-01	0.528600E+00	0.178600E+00	0.476200E+00
41	28.400	0.175000E-01	0.294000E-01	0.319420E+01	0.199000E-01	0.531200E+00	0.173700E+00	0.456900E+00
42	29.000	0.166000E-01	0.270000E-01	0.319130E+01	0.191000E-01	0.534400E+00	0.168000E+00	0.430100E+00
43	29.200	0.163000E-01	0.263000E-01	0.319040E+01	0.188000E-01	0.535300E+00	0.166600E+00	0.421700E+00
44	29.400	0.161000E-01	0.256000E-01	0.318950E+01	0.185000E-01	0.536100E+00	0.165300E+00	0.413500E+00
45	29.600	0.158000E-01	0.249000E-01	0.318820E+01	0.183000E-01	0.536900E+00	0.164300E+00	0.405600E+00
46	29.800	0.155000E-01	0.242000E-01	0.318780E+01	0.180000E-01	0.537600E+00	0.163400E+00	0.397900E+00
47	30.000	0.153000E-01	0.236000E-01	0.318700E+01	0.177000E-01	0.538200E+00	0.162700E+00	0.390400E+00
48	30.200	0.150000E-01	0.229000E-01	0.318620E+01	0.175000E-01	0.538700E+00	0.162100E+00	0.383100E+00
49	30.600	0.146000E-01	0.218000E-01	0.318460E+01	0.170000E-01	0.539700E+00	0.161600E+00	0.369000E+00
50								
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Table 5: $(2)^3\Pi - (2-7)^3\Pi$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
3.000	0.126470E+01	0.770400E+00	0.273100E+00	-0.110360E+01	0.208000E+00	-0.247690E+01
3.200	0.139860E+01	0.704700E+00	0.120900E+00	-0.112010E+01	0.641600E+00	-0.230590E+01
3.400	0.151840E+01	0.657800E+00	0.273000E-01	-0.110590E+01	0.106010E+01	-0.276000E-01
3.600	0.164020E+01	0.624900E+00	0.182000E-01	-0.106990E+01	0.131520E+01	0.132900E+00
3.800	0.177130E+01	0.601000E+00	0.253000E-01	-0.101780E+01	0.151360E+01	0.150600E+00
4.000	0.191300E+01	0.582300E+00	0.190000E-02	-0.952400E+00	0.169030E+01	0.151600E+00
4.200	0.206240E+01	0.566700E+00	0.446000E-01	-0.874000E+00	0.185860E+01	0.144600E+00
4.400	0.221400E+01	0.556900E+00	-0.100300E+00	-0.781300E+00	0.202370E+01	0.133200E+00
4.600	0.236150E+01	0.576600E+00	-0.801000E-01	-0.672000E+00	0.218610E+01	0.119300E+00
4.800	0.249820E+01	0.526100E+00	-0.335900E+00	-0.543600E+00	0.234420E+01	0.104500E+00
5.000	0.261880E+01	0.592400E+00	-0.361500E+00	-0.394400E+00	0.249450E+01	0.899000E-01
5.200	0.271920E+01	0.725200E+00	-0.311500E+00	-0.224300E+00	0.263240E+01	0.761000E-01
5.400	0.279710E+01	0.879200E+00	-0.221700E+00	-0.378000E-01	0.275280E+01	0.633000E-01
5.600	0.285160E+01	0.104380E+01	-0.832000E-01	0.152600E+00	0.285030E+01	0.510000E-01
5.800	0.288310E+01	0.121350E+01	-0.113400E+00	0.324500E+00	0.291950E+01	0.393000E-01
6.000	0.289270E+01	0.138490E+01	-0.359300E+00	0.458300E+00	0.295650E+01	0.276000E-01
6.200	0.288180E+01	0.155540E+01	-0.621200E+00	0.562600E+00	0.295900E+01	0.157000E-01
6.800	0.274450E+01	0.204670E+01	-0.114460E+01	0.105960E+01	0.277870E+01	0.197000E-01
7.000	0.266930E+01	0.220220E+01	-0.116470E+01	0.130960E+01	0.267310E+01	0.303000E-01
7.400	0.248260E+01	0.250360E+01	-0.966800E+00	0.177790E+01	0.243990E+01	0.461000E-01
7.600	0.23270E+01	0.265000E+01	-0.758800E+00	0.195710E+01	0.232680E+01	0.504000E-01
7.800	0.225260E+01	0.278920E+01	-0.462400E+00	0.209280E+01	0.222080E+01	0.515000E-01
8.000	0.212300E+01	0.290060E+01	-0.290000E-01	0.218800E+01	0.212200E+01	0.487000E-01
8.200	0.198400E+01	0.291600E+01	0.608800E+00	0.224780E+01	0.202970E+01	0.413000E-01
8.400	0.183580E+01	0.272490E+01	0.139620E+01	0.227800E+01	0.194610E+01	0.301000E-01
8.600	0.167880E+01	0.237450E+01	0.207020E+01	0.228270E+01	0.186750E+01	0.148000E-01
8.800	0.151340E+01	0.203800E+01	0.252430E+01	0.226580E+01	0.179370E+01	-0.350000E-02
9.400	0.972000E+00	0.137570E+01	0.328890E+01	0.211420E+01	0.158860E+01	-0.357000E-01
9.800	0.583300E+00	0.105700E+01	0.366000E+01	0.195700E+01	0.145310E+01	-0.215590E+01
10.000	0.385100E+00	0.905300E+00	0.383130E+01	0.187280E+01	0.138250E+01	-0.211750E+01
10.200	0.187200E+00	0.753900E+00	0.399290E+01	0.179220E+01	0.130850E+01	-0.203190E+01
10.400	-0.790000E-02	0.601200E+00	0.414220E+01	0.172110E+01	0.123030E+01	-0.191200E+01
10.600	-0.197200E+00	0.447100E+00	0.427590E+01	0.166450E+01	0.114680E+01	-0.176430E+01
10.800	-0.377500E+00	0.292200E+00	0.439060E+01	0.162550E+01	0.105630E+01	-0.159630E+01
11.000	-0.545300E+00	0.137900E+00	0.448320E+01	0.160440E+01	0.956000E+00	-0.141750E+01
11.200	-0.697000E+00	-0.140000E-01	0.455140E+01	0.159850E+01	0.839700E+00	-0.124230E+01
11.400	-0.829300E+00	-0.161000E+00	0.459360E+01	0.160320E+01	0.695900E+00	-0.109030E+01
11.600	-0.939200E+00	-0.300700E+00	0.460900E+01	0.161260E+01	0.520600E+00	-0.974200E+00
11.800	-0.102440E+01	-0.430300E+00	0.459780E+01	0.162100E+01	0.392000E+00	-0.863900E+00
12.000	-0.108360E+01	-0.547200E+00	0.456080E+01	0.162340E+01	0.404700E+00	-0.741000E+00
12.200	-0.111630E+01	-0.648900E+00	0.449920E+01	0.161610E+01	0.516200E+00	-0.618100E+00
12.400	-0.112350E+01	-0.733100E+00	0.441440E+01	0.159710E+01	0.667100E+00	-0.495500E+00
12.600	-0.110700E+01	-0.798300E+00	0.430830E+01	0.156570E+01	0.825800E+00	-0.367500E+00
12.800	-0.106990E+01	-0.843500E+00	0.418270E+01	0.152290E+01	0.975700E+00	-0.228000E+00
13.000	-0.101580E+01	-0.868500E+00	0.404010E+01	0.147060E+01	0.110590E+01	-0.720000E-01
13.200	-0.949200E+00	-0.873800E+00	0.388300E+01	0.141120E+01	0.120730E+01	0.103700E+00
13.400	-0.874300E+00	-0.861200E+00	0.371440E+01	0.134740E+01	0.127260E+01	0.297300E+00
13.600	-0.795200E+00	-0.832800E+00	0.353740E+01	0.128170E+01	0.129820E+01	0.499900E+00
13.800	-0.715600E+00	-0.791600E+00	0.335500E+01	0.121610E+01	0.128710E+01	0.697600E+00
14.000	-0.638400E+00	-0.740400E+00	0.317030E+01	0.115220E+01	0.124910E+01	0.877100E+00
14.200	-0.565500E+00	-0.682400E+00	0.298600E+01	0.109110E+01	0.119600E+01	0.103140E+01
14.400	-0.498400E+00	-0.620500E+00	0.280440E+01	0.103350E+01	0.113740E+01	0.116010E+01
14.600	-0.437700E+00	-0.557100E+00	0.262720E+01	0.979600E+00	0.107910E+01	0.126680E+01
14.800	-0.383700E+00	-0.494200E+00	0.245600E+01	0.929700E+00	0.102390E+01	0.135600E+01
15.000	-0.336000E+00	-0.433400E+00	0.229160E+01	0.883700E+00	0.972800E+00	0.143220E+01
15.200	-0.294300E+00	-0.375800E+00	0.213480E+01	0.841500E+00	0.925900E+00	0.149900E+01
15.400	-0.258100E+00	-0.322100E+00	0.198590E+01	0.802700E+00	0.882800E+00	0.155960E+01
15.600	-0.226800E+00	-0.272800E+00	0.184500E+01	0.767100E+00	0.843000E+00	0.161600E+01
15.800	-0.199800E+00	-0.227900E+00	0.171200E+01	0.734500E+00	0.806100E+00	0.167020E+01
16.200	-0.156500E+00	-0.151600E+00	0.146920E+01	0.677000E+00	0.739500E+00	0.177700E+01
16.400	-0.139200E+00	-0.119700E+00	0.135870E+01	0.651500E+00	0.709100E+00	0.183150E+01
16.600	-0.124300E+00	-0.917000E-01	0.125500E+01	0.627900E+00	0.680200E+00	0.188760E+01
16.800	-0.111300E+00	-0.671000E-01	0.115780E+01	0.605800E+00	0.652800E+00	0.194560E+01
17.000	-0.100100E+00	-0.457000E-01	0.106680E+01	0.585100E+00	0.626600E+00	0.200600E+01
17.200	-0.903000E-01	-0.272000E-01	0.981600E+00	0.565400E+00	0.601600E+00	0.206870E+01
17.400	-0.818000E-01	-0.111000E-01	0.901900E+00	0.546600E+00	0.577600E+00	0.213370E+01
17.600	-0.743000E-01	0.260000E-02	0.827400E+00	0.528400E+00	0.554600E+00	0.220100E+01
17.800	-0.677000E-01	0.144000E-01	0.757900E+00	0.510600E+00	0.532400E+00	0.227000E+01
18.000	-0.619000E-01	0.244000E-01	0.693200E+00	0.493000E+00	0.511100E+00	0.234060E+01
18.200	-0.568000E-01	0.329000E-01	0.633000E+00	0.475400E+00	0.490500E+00	0.241200E+01
18.400	-0.522000E-01	0.400000E-01	0.577300E+00	0.457700E+00	0.470800E+00	0.248370E+01
18.600	-0.481000E-01	0.460000E-01	0.525800E+00	0.439800E+00	0.451700E+00	0.255500E+01
18.800	-0.444000E-01	0.509000E-01	0.478500E+00	0.421700E+00	0.433400E+00	0.262520E+01
19.000	-0.410000E-01	0.550000E-01	0.435100E+00	0.403300E+00	0.415800E+00	0.269360E+01
19.200	-0.380000E-01	0.583000E-01	0.395500E+00	0.384700E+00	0.398900E+00	0.275950E+01
19.400	-0.353000E-01	0.609000E-01	0.359600E+00	0.366000E+00	0.382700E+00	0.282250E+01
19.600	-0.328000E-01	0.630000E-01	0.327100E+00	0.347200E+00	0.367000E+00	0.288200E+01

1							
2							
3	19.800	-0.305000E-01	0.646000E-01	0.297700E+00	0.328300E+00	0.351700E+00	0.293760E+01
4	20.000	-0.285000E-01	0.657000E-01	0.271300E+00	0.309700E+00	0.337100E+00	0.298910E+01
5	20.200	-0.265000E-01	0.665000E-01	0.247700E+00	0.291300E+00	0.323100E+00	0.303610E+01
6	20.400	-0.248000E-01	0.670000E-01	0.226500E+00	0.273300E+00	0.309700E+00	0.307850E+01
7	20.600	-0.231000E-01	0.672000E-01	0.207500E+00	0.255800E+00	0.296800E+00	0.311610E+01
8	20.800	-0.216000E-01	0.672000E-01	0.190600E+00	0.238800E+00	0.284400E+00	0.314890E+01
9	21.200	-0.189000E-01	0.666000E-01	0.162000E+00	0.206700E+00	0.260900E+00	0.319980E+01
10	21.600	-0.166000E-01	0.655000E-01	0.139000E+00	0.177300E+00	0.239400E+00	0.323190E+01
11	22.000	-0.145000E-01	0.640000E-01	0.120600E+00	0.150700E+00	0.219300E+00	0.324840E+01
12	22.400	-0.127000E-01	0.622000E-01	0.105600E+00	0.127000E+00	0.200600E+00	0.325540E+01
13	22.600	-0.119000E-01	0.613000E-01	0.992000E-01	0.116200E+00	0.191700E+00	0.325770E+01
14	22.800	-0.111000E-01	0.603000E-01	0.934000E-01	0.106200E+00	0.183100E+00	0.326020E+01
15	23.000	-0.104000E-01	0.593000E-01	0.881000E-01	0.968000E-01	0.174900E+00	0.326370E+01
16	23.200	-0.970000E-02	0.583000E-01	0.833000E-01	0.880000E-01	0.166900E+00	0.326820E+01
17	23.800	-0.780000E-02	0.552000E-01	0.712000E-01	0.655000E-01	0.144700E+00	0.328750E+01
18	24.000	-0.730000E-02	0.541000E-01	0.678000E-01	0.592000E-01	0.137800E+00	0.329450E+01
19	24.200	-0.680000E-02	0.531000E-01	0.646000E-01	0.533000E-01	0.131200E+00	0.330110E+01
20	24.400	-0.630000E-02	0.521000E-01	0.617000E-01	0.480000E-01	0.124800E+00	0.330710E+01
21	24.600	-0.580000E-02	0.511000E-01	0.590000E-01	0.432000E-01	0.118700E+00	0.331210E+01
22	24.800	-0.540000E-02	0.501000E-01	0.565000E-01	0.388000E-01	0.112800E+00	0.331600E+01
23	25.000	-0.490000E-02	0.491000E-01	0.542000E-01	0.348000E-01	0.107200E+00	0.331860E+01
24	25.200	-0.450000E-02	0.481000E-01	0.520000E-01	0.311000E-01	0.101800E+00	0.332010E+01
25	25.400	-0.420000E-02	0.472000E-01	0.500000E-01	0.278000E-01	0.966000E-01	0.332040E+01
26	25.600	-0.380000E-02	0.462000E-01	0.481000E-01	0.249000E-01	0.917000E-01	0.331970E+01
27	25.800	-0.350000E-02	0.453000E-01	0.463000E-01	0.222000E-01	0.870000E-01	0.331750E+01
28	26.000	-0.310000E-02	0.444000E-01	0.446000E-01	0.198000E-01	0.826000E-01	0.331580E+01
29	26.200	-0.280000E-02	0.435000E-01	0.430000E-01	0.176000E-01	0.783000E-01	0.331280E+01
30	26.400	-0.250000E-02	0.427000E-01	0.415000E-01	0.156000E-01	0.742000E-01	0.330920E+01
31	26.600	-0.230000E-02	0.418000E-01	0.401000E-01	0.139000E-01	0.702000E-01	0.330500E+01
32	26.800	-0.200000E-02	0.410000E-01	0.387000E-01	0.123000E-01	0.666000E-01	0.330040E+01
33	27.000	-0.180000E-02	0.402000E-01	0.374000E-01	0.109000E-01	0.631000E-01	0.329540E+01
34	27.200	-0.150000E-02	0.394000E-01	0.362000E-01	0.960000E-02	0.598000E-01	0.329010E+01
35	27.400	-0.130000E-02	0.386000E-01	0.350000E-01	0.840000E-02	0.567000E-01	0.328460E+01
36	27.600	-0.110000E-02	0.378000E-01	0.339000E-01	0.740000E-02	0.537000E-01	0.327880E+01
37	27.800	-0.900000E-03	0.371000E-01	0.329000E-01	0.650000E-02	0.509000E-01	0.327290E+01
38	28.000	-0.700000E-03	0.364000E-01	0.319000E-01	0.560000E-02	0.482000E-01	0.326680E+01
39	28.400	-0.300000E-03	0.350000E-01	0.300000E-01	0.420000E-02	0.432000E-01	0.325420E+01
40	29.000	0.200000E-03	0.330000E-01	0.274000E-01	0.250000E-02	0.367000E-01	0.323480E+01
41	29.200	0.300000E-03	0.324000E-01	0.266000E-01	0.210000E-02	0.348000E-01	0.322820E+01
42	29.400	0.500000E-03	0.318000E-01	0.259000E-01	0.170000E-02	0.329000E-01	0.322150E+01
43	29.600	0.600000E-03	0.312000E-01	0.252000E-01	0.130000E-02	0.311000E-01	0.321470E+01
44	29.800	0.700000E-03	0.306000E-01	0.245000E-01	0.100000E-02	0.295000E-01	0.320820E+01
45	30.000	0.800000E-03	0.300000E-01	0.238000E-01	0.700000E-03	0.279000E-01	0.320160E+01
46	30.200	0.100000E-02	0.295000E-01	0.231000E-01	0.400000E-03	0.264000E-01	0.319490E+01

Table 6: $(3)^3\Pi - (3-7)^3\Pi$ transitions

R	3-3	3-4	3-5	3-6	3-7
3.000	-0.113100E+00	0.311200E+00	-0.183100E+00	-0.213600E+00	0.337900E+00
3.200	-0.175500E+00	0.229300E+00	-0.211200E+00	-0.192500E+00	0.337800E+00
3.400	-0.203300E+00	0.161100E+00	-0.244300E+00	-0.167800E+00	0.229800E+00
3.600	-0.215200E+00	0.102900E+00	-0.287900E+00	-0.170300E+00	0.197000E+00
3.800	-0.222600E+00	0.494000E-01	-0.344700E+00	-0.206000E+00	0.180600E+00
4.000	-0.230800E+00	-0.109000E-01	-0.420100E+00	-0.265300E+00	0.180600E+00
4.200	-0.240300E+00	-0.109400E+00	-0.531200E+00	-0.332400E+00	0.212700E+00
4.400	-0.235600E+00	-0.360900E+00	-0.744600E+00	-0.383200E+00	0.327500E+00
4.600	-0.161600E+00	-0.154750E+01	-0.153160E+01	-0.271000E+00	0.899100E+00
4.800	-0.473500E+01	-0.213490E+01	-0.350460E+01	-0.499300E+00	0.254340E+01
5.000	-0.533480E+01	-0.140890E+01	-0.370080E+01	-0.421100E+00	0.263510E+01
5.200	-0.542960E+01	-0.134780E+01	-0.380560E+01	-0.179400E+00	0.262380E+01
5.400	-0.545090E+01	-0.148610E+01	-0.386610E+01	-0.130800E+00	0.259750E+01
5.600	-0.544300E+01	-0.173970E+01	-0.386240E+01	-0.494100E+00	0.256390E+01
5.800	-0.541660E+01	-0.204850E+01	-0.378490E+01	-0.899300E+00	0.252560E+01
6.000	-0.537590E+01	-0.231570E+01	-0.366600E+01	-0.133310E+01	0.248350E+01
6.200	-0.532300E+01	-0.244420E+01	-0.357390E+01	-0.178330E+01	0.243890E+01
6.800	-0.510130E+01	-0.185260E+01	-0.358420E+01	-0.319710E+01	0.229650E+01
7.000	-0.500630E+01	-0.143850E+01	-0.356600E+01	-0.365960E+01	0.224650E+01
7.400	-0.476820E+01	-0.507900E+00	-0.338180E+01	-0.447160E+01	0.213110E+01
7.600	-0.460320E+01	0.218000E-01	-0.322230E+01	-0.480210E+01	0.205480E+01
7.800	-0.436670E+01	0.495800E+00	-0.302260E+01	-0.506190E+01	0.194710E+01
8.000	-0.397290E+01	0.107130E+01	-0.276710E+01	-0.519750E+01	0.177170E+01
8.200	-0.326070E+01	0.164690E+01	-0.240540E+01	-0.507000E+01	0.146600E+01
8.400	-0.220820E+01	0.191200E+01	-0.190150E+01	-0.452390E+01	0.101130E+01
8.600	-0.127530E+01	0.168470E+01	-0.138950E+01	-0.375900E+01	0.557900E+00
8.800	-0.735600E+00	0.127850E+01	-0.101300E+01	-0.312670E+01	0.241400E+00
9.000	-0.460900E+00	0.907500E+00	-0.766400E+00	-0.269120E+01	0.467000E-01
9.200	-0.319300E+00	0.600500E+00	-0.604700E+00	-0.239570E+01	-0.714000E-01
9.400	-0.245800E+00	0.341100E+00	-0.496500E+00	-0.218860E+01	-0.139600E+00
9.800	-0.201300E+00	0.101200E+00	-0.374000E+00	-0.192310E+01	-0.550900E+00
10.000	-0.210100E+00	0.306100E+00	-0.341800E+00	-0.183250E+01	-0.681000E+00
10.200	-0.233700E+00	0.509400E+00	-0.321400E+00	-0.175740E+01	-0.796600E+00
10.400	-0.270200E+00	0.715100E+00	-0.308000E+00	-0.169130E+01	-0.901700E+00
10.600	-0.318400E+00	0.926100E+00	-0.297100E+00	-0.162820E+01	-0.998400E+00
10.800	-0.377300E+00	0.114350E+01	-0.284500E+00	-0.156150E+01	-0.109020E+01
11.000	-0.446300E+00	0.136760E+01	-0.266700E+00	-0.148080E+01	-0.118560E+01
11.200	-0.524500E+00	0.159750E+01	-0.241200E+00	-0.136520E+01	-0.129930E+01
11.400	-0.611200E+00	0.183180E+01	-0.206800E+00	-0.116840E+01	-0.145600E+01
11.600	-0.705300E+00	0.206910E+01	-0.163200E+00	-0.816400E+00	-0.165300E+01
11.800	-0.805500E+00	0.230740E+01	-0.111400E+00	-0.376200E+00	-0.177630E+01
12.000	-0.910400E+00	0.254500E+01	-0.532000E-01	-0.871000E-01	-0.178190E+01
12.200	-0.101800E+01	0.278000E+01	0.920000E-02	-0.271000E-01	-0.175010E+01
12.400	-0.112590E+01	0.301040E+01	0.733000E-01	-0.348000E-01	-0.171570E+01
12.600	-0.123140E+01	0.323390E+01	0.136500E+00	0.228000E-01	-0.168300E+01
12.800	-0.133120E+01	0.344780E+01	0.196500E+00	0.126600E+00	-0.164870E+01
13.000	-0.142210E+01	0.364940E+01	0.251600E+00	0.266800E+00	-0.160710E+01
13.200	-0.150080E+01	0.383570E+01	0.300400E+00	0.435500E+00	-0.155100E+01
13.400	-0.156450E+01	0.400410E+01	0.342300E+00	0.622800E+00	-0.147400E+01
13.600	-0.161080E+01	0.415210E+01	0.377200E+00	0.814100E+00	-0.137390E+01
13.800	-0.163840E+01	0.427800E+01	0.405400E+00	0.993600E+00	-0.125510E+01
14.000	-0.164700E+01	0.438050E+01	0.427400E+00	0.114940E+01	-0.112840E+01
14.200	-0.163710E+01	0.445940E+01	0.444100E+00	0.127770E+01	-0.100480E+01
14.400	-0.161030E+01	0.451480E+01	0.456400E+00	0.138070E+01	-0.892000E+00
14.600	-0.156850E+01	0.454780E+01	0.465300E+00	0.146280E+01	-0.793300E+00
14.800	-0.151430E+01	0.455970E+01	0.471600E+00	0.152860E+01	-0.709100E+00
15.000	-0.145020E+01	0.455230E+01	0.476300E+00	0.158180E+01	-0.638600E+00
15.200	-0.137890E+01	0.452770E+01	0.480100E+00	0.162500E+01	-0.580100E+00
15.400	-0.130280E+01	0.448790E+01	0.483800E+00	0.166020E+01	-0.531900E+00
15.600	-0.122410E+01	0.443510E+01	0.488100E+00	0.168860E+01	-0.492500E+00
15.800	-0.114470E+01	0.437140E+01	0.493600E+00	0.171130E+01	-0.460600E+00
16.200	-0.989400E+00	0.421930E+01	0.509700E+00	0.174160E+01	-0.414000E+00
16.400	-0.915600E+00	0.413430E+01	0.521200E+00	0.175040E+01	-0.397500E+00
16.600	-0.845400E+00	0.404540E+01	0.535300E+00	0.175560E+01	-0.384300E+00
16.800	-0.779000E+00	0.395370E+01	0.552000E+00	0.175730E+01	-0.374000E+00
17.000	-0.716900E+00	0.386030E+01	0.571500E+00	0.175610E+01	-0.365800E+00
17.200	-0.658900E+00	0.376610E+01	0.593400E+00	0.175210E+01	-0.359300E+00
17.400	-0.605200E+00	0.367180E+01	0.617700E+00	0.174580E+01	-0.354000E+00
17.600	-0.555600E+00	0.357790E+01	0.643900E+00	0.173720E+01	-0.349500E+00
17.800	-0.510000E+00	0.348510E+01	0.671500E+00	0.172670E+01	-0.345300E+00
18.000	-0.468100E+00	0.339370E+01	0.699800E+00	0.171450E+01	-0.341100E+00
18.200	-0.429700E+00	0.330410E+01	0.728100E+00	0.170070E+01	-0.336500E+00
18.400	-0.394700E+00	0.321670E+01	0.755500E+00	0.168570E+01	-0.331200E+00
18.600	-0.362600E+00	0.313190E+01	0.781300E+00	0.166960E+01	-0.324800E+00
18.800	-0.333400E+00	0.305000E+01	0.804600E+00	0.165250E+01	-0.316900E+00
19.000	-0.306800E+00	0.297130E+01	0.824800E+00	0.163470E+01	-0.307600E+00
19.200	-0.282600E+00	0.289620E+01	0.841300E+00	0.161620E+01	-0.296300E+00

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3	19.400	-0.260600E+00	0.282500E+01	0.853800E+00	0.159710E+01
4	19.600	-0.240500E+00	0.275780E+01	0.861800E+00	0.157770E+01
5	19.800	-0.222300E+00	0.269460E+01	0.865100E+00	0.155810E+01
6	20.000	-0.205700E+00	0.263560E+01	0.864100E+00	0.153820E+01
7	20.200	-0.190600E+00	0.258090E+01	0.858800E+00	0.151810E+01
8	20.400	-0.176900E+00	0.253020E+01	0.849500E+00	0.149800E+01
9	20.600	-0.164500E+00	0.248350E+01	0.836400E+00	0.147780E+01
10	20.800	-0.153200E+00	0.244050E+01	0.820000E+00	0.145760E+01
11	21.200	-0.133500E+00	0.236520E+01	0.778500E+00	0.141710E+01
12	21.600	-0.117300E+00	0.230230E+01	0.728200E+00	0.137660E+01
13	22.000	-0.103900E+00	0.225010E+01	0.671500E+00	0.133600E+01
14	22.400	-0.928000E-01	0.220690E+01	0.611300E+00	0.129490E+01
15	22.600	-0.880000E-01	0.218810E+01	0.580500E+00	0.127410E+01
16	22.800	-0.836000E-01	0.217110E+01	0.549700E+00	0.125320E+01
17	23.000	-0.796000E-01	0.215550E+01	0.519100E+00	0.123210E+01
18	23.200	-0.760000E-01	0.214140E+01	0.488800E+00	0.121070E+01
19	23.800	-0.670000E-01	0.210620E+01	0.402400E+00	0.114530E+01
20	24.000	-0.645000E-01	0.209640E+01	0.375500E+00	0.112330E+01
21	24.200	-0.622000E-01	0.208760E+01	0.349700E+00	0.110100E+01
22	24.400	-0.601000E-01	0.207950E+01	0.325100E+00	0.107850E+01
23	24.600	-0.583000E-01	0.207210E+01	0.301700E+00	0.105590E+01
24	24.800	-0.565000E-01	0.206540E+01	0.279700E+00	0.103340E+01
25	25.000	-0.549000E-01	0.205930E+01	0.258900E+00	0.101080E+01
26	25.200	-0.535000E-01	0.205370E+01	0.239500E+00	0.988400E+00
27	25.400	-0.522000E-01	0.204860E+01	0.221300E+00	0.966000E+00
28	25.600	-0.510000E-01	0.204390E+01	0.204400E+00	0.943800E+00
29	25.800	-0.498000E-01	0.203960E+01	0.188600E+00	0.921700E+00
30	26.000	-0.488000E-01	0.203570E+01	0.174100E+00	0.899900E+00
31	26.200	-0.478000E-01	0.203210E+01	0.160600E+00	0.878400E+00
32	26.400	-0.470000E-01	0.202890E+01	0.148200E+00	0.857100E+00
33	26.600	-0.461000E-01	0.202590E+01	0.136800E+00	0.836300E+00
34	26.800	-0.454000E-01	0.202310E+01	0.126300E+00	0.815700E+00
35	27.000	-0.447000E-01	0.202060E+01	0.116600E+00	0.795500E+00
36	27.200	-0.440000E-01	0.201830E+01	0.107800E+00	0.775500E+00
37	27.400	-0.434000E-01	0.201620E+01	0.997000E-01	0.756000E+00
38	27.600	-0.428000E-01	0.201420E+01	0.924000E-01	0.736800E+00
39	27.800	-0.422000E-01	0.201240E+01	0.857000E-01	0.718000E+00
40	28.000	-0.417000E-01	0.201080E+01	0.795000E-01	0.699600E+00
41	28.400	-0.407000E-01	0.200790E+01	0.689000E-01	0.663900E+00
42	29.000	-0.394000E-01	0.200430E+01	0.563000E-01	0.613400E+00
43	29.200	-0.389000E-01	0.200330E+01	0.528000E-01	0.597300E+00
44	29.400	-0.385000E-01	0.200240E+01	0.497000E-01	0.581600E+00
45	29.600	-0.381000E-01	0.200120E+01	0.469000E-01	0.566200E+00
46	29.800	-0.378000E-01	0.200070E+01	0.443000E-01	0.551300E+00
47	30.000	-0.374000E-01	0.199990E+01	0.420000E-01	0.536700E+00
48	30.200	-0.370000E-01	0.199920E+01	0.399000E-01	0.522300E+00
49	30.600	-0.363000E-01	0.199790E+01	0.364000E-01	0.494800E+00
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The following tables display the dipole moment functions between the four lowest Σ^+ states with the seven lowest Σ states of **NaRb**, for singlet (Tables 1 to 4) and triplet (Tables 5 to 8) transitions. Distances and dipole moments are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 2.54158059 Debye. All states are identified with their number with increasing energy. When both indexes are equal, the function corresponds to the permanent dipole moment.

Table 1: $(1)^1\Sigma^+ - (1-7)^1\Sigma^+$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
4.400	-0.107890E+01	0.337260E+01	0.102700E+01	-0.417400E+00	-0.583000E-01	-0.496800E+00	-0.135000E-01
4.600	-0.109550E+01	0.340800E+01	0.968000E+00	-0.437200E+00	-0.852000E-01	-0.545000E+00	-0.105000E-01
4.800	-0.111130E+01	0.344280E+01	0.917600E+00	-0.450300E+00	-0.102100E+00	-0.581800E+00	-0.700000E-02
5.000	-0.112730E+01	0.347740E+01	0.879600E+00	-0.456000E+00	-0.112600E+00	-0.607500E+00	-0.330000E-02
5.200	-0.114400E+01	0.351300E+01	0.854800E+00	-0.455500E+00	-0.120300E+00	-0.623600E+00	0.300000E-03
5.400	-0.116160E+01	0.355040E+01	0.841700E+00	-0.450600E+00	-0.127900E+00	-0.631800E+00	0.320000E-02
5.600	-0.118030E+01	0.359020E+01	0.838400E+00	-0.443200E+00	-0.137400E+00	-0.634000E+00	0.510000E-02
5.800	-0.119970E+01	0.363260E+01	0.842900E+00	-0.435000E+00	-0.149900E+00	-0.631600E+00	0.590000E-02
6.000	-0.121970E+01	0.367760E+01	0.853900E+00	-0.427000E+00	-0.166200E+00	-0.625800E+00	0.610000E-02
6.200	-0.123980E+01	0.372490E+01	0.870400E+00	-0.420000E+00	-0.186200E+00	-0.617000E+00	0.620000E-02
6.800	-0.129640E+01	0.387690E+01	0.947300E+00	-0.406000E+00	-0.266300E+00	-0.575400E+00	0.132000E-01
7.000	-0.131230E+01	0.392900E+01	0.981200E+00	-0.402800E+00	-0.298300E+00	-0.556600E+00	0.194000E-01
7.400	-0.133550E+01	0.403160E+01	0.106010E+01	-0.390000E+00	-0.372600E+00	-0.511800E+00	0.398000E-01
7.600	-0.134170E+01	0.408060E+01	0.110480E+01	-0.363900E+00	-0.426600E+00	-0.486100E+00	0.538000E-01
8.000	-0.133960E+01	0.417020E+01	0.120330E+01	-0.308100E+00	-0.521400E+00	-0.429300E+00	0.882000E-01
8.200	-0.133030E+01	0.420920E+01	0.125660E+01	-0.398500E+00	-0.486100E+00	-0.398500E+00	0.107400E+00
8.400	-0.131460E+01	0.424350E+01	0.131180E+01	-0.443700E+00	-0.477400E+00	-0.366300E+00	0.127000E+00
8.600	-0.129250E+01	0.427210E+01	0.136850E+01	-0.479300E+00	-0.475500E+00	-0.332900E+00	0.146300E+00
8.800	-0.126350E+01	0.429460E+01	0.142610E+01	-0.511700E+00	-0.475800E+00	-0.298300E+00	0.164800E+00
9.000	-0.122780E+01	0.431010E+01	0.148390E+01	-0.543100E+00	-0.476500E+00	-0.262900E+00	0.182000E+00
9.200	-0.118560E+01	0.431830E+01	0.154130E+01	-0.574400E+00	-0.476900E+00	-0.226800E+00	0.197600E+00
9.400	-0.113730E+01	0.431880E+01	0.159760E+01	-0.605900E+00	-0.476300E+00	-0.190200E+00	0.211300E+00
9.800	-0.102530E+01	0.429600E+01	0.170470E+01	-0.670300E+00	-0.470900E+00	-0.117300E+00	0.232900E+00
10.000	-0.963400E+00	0.427280E+01	0.175470E+01	-0.702800E+00	-0.465600E+00	-0.819000E-01	0.241100E+00
10.200	-0.899000E+00	0.424230E+01	0.180190E+01	-0.735100E+00	-0.458500E+00	-0.478000E-01	0.248100E+00
10.400	-0.833300E+00	0.420500E+01	0.184630E+01	-0.766500E+00	-0.449700E+00	-0.155000E-01	0.254600E+00
10.600	-0.767400E+00	0.416170E+01	0.188790E+01	-0.796400E+00	-0.439400E+00	-0.145000E-01	0.261700E+00
10.800	-0.702300E+00	0.411340E+01	0.192700E+01	-0.824000E+00	-0.427700E+00	-0.416000E-01	0.271000E+00
11.000	-0.639000E+00	0.406100E+01	0.196390E+01	-0.848200E+00	-0.414900E+00	-0.655000E-01	0.284200E+00
11.200	-0.578200E+00	0.400550E+01	0.199910E+01	-0.868200E+00	-0.401300E+00	-0.852000E-01	0.302600E+00
11.400	-0.520600E+00	0.394810E+01	0.203310E+01	-0.882500E+00	-0.387100E+00	-0.999000E-01	0.325200E+00
11.600	-0.466600E+00	0.388990E+01	0.206660E+01	-0.889900E+00	-0.372700E+00	-0.107200E+00	0.350100E+00
11.800	-0.416500E+00	0.383170E+01	0.210040E+01	-0.888400E+00	-0.358300E+00	-0.103200E+00	0.376700E+00
12.000	-0.370300E+00	0.377450E+01	0.213530E+01	-0.875800E+00	-0.343900E+00	-0.795000E-01	0.405700E+00
12.200	-0.328100E+00	0.371910E+01	0.217230E+01	-0.848800E+00	-0.329900E+00	-0.221000E-01	0.433500E+00
12.400	-0.289900E+00	0.366610E+01	0.221230E+01	-0.803200E+00	-0.316200E+00	0.724000E-01	0.446400E+00
12.600	-0.255400E+00	0.361610E+01	0.225600E+01	-0.732500E+00	-0.303000E+00	0.165100E+00	0.437300E+00
12.800	-0.224400E+00	0.356950E+01	0.230350E+01	-0.627100E+00	-0.290300E+00	0.225000E+00	0.423200E+00
13.000	-0.196700E+00	0.352670E+01	0.235270E+01	-0.473400E+00	-0.278100E+00	0.258300E+00	0.413900E+00
13.200	-0.172100E+00	0.348780E+01	0.239620E+01	-0.254200E+00	-0.266500E+00	0.276000E+00	0.408800E+00
13.400	-0.150200E+00	0.345300E+01	0.241610E+01	0.427000E-01	-0.255400E+00	0.284400E+00	0.405800E+00
13.600	-0.130900E+00	0.342240E+01	0.238710E+01	0.401300E+00	-0.244800E+00	0.286700E+00	0.403200E+00
13.800	-0.113800E+00	0.339600E+01	0.229860E+01	0.763500E+00	-0.234700E+00	0.285100E+00	0.400200E+00
14.000	-0.987000E-01	0.337350E+01	0.217270E+01	0.106800E+01	-0.225100E+00	0.280600E+00	0.396200E+00
14.200	-0.854000E-01	0.335480E+01	0.204060E+01	0.129620E+01	-0.216000E+00	0.274100E+00	0.391000E+00
14.400	-0.738000E-01	0.333970E+01	0.191880E+01	0.146100E+01	-0.207200E+00	0.266400E+00	0.384400E+00
14.600	-0.635000E-01	0.332790E+01	0.181050E+01	0.158130E+01	-0.198800E+00	0.257800E+00	0.376500E+00
14.800	-0.545000E-01	0.331900E+01	0.171370E+01	0.167200E+01	-0.190700E+00	0.248700E+00	0.367400E+00
15.000	-0.467000E-01	0.331270E+01	0.162570E+01	0.174250E+01	-0.182900E+00	0.239500E+00	0.357300E+00
15.200	-0.397000E-01	0.330840E+01	0.154390E+01	0.179930E+01	-0.175400E+00	0.230200E+00	0.346200E+00
15.400	-0.337000E-01	0.330590E+01	0.146680E+01	0.184620E+01	-0.168100E+00	0.221000E+00	0.334500E+00
15.600	-0.284000E-01	0.330470E+01	0.139300E+01	0.188580E+01	-0.161200E+00	0.212100E+00	0.322100E+00
15.800	-0.237000E-01	0.330440E+01	0.132210E+01	0.192000E+01	-0.154400E+00	0.203500E+00	0.309500E+00
16.200	-0.160000E-01	0.330500E+01	0.118790E+01	0.197630E+01	-0.141600E+00	0.187300E+00	0.283600E+00
16.400	-0.129000E-01	0.330550E+01	0.112470E+01	0.199980E+01	-0.135500E+00	0.179800E+00	0.270600E+00
16.600	-0.102000E-01	0.330560E+01	0.106440E+01	0.202100E+01	-0.129600E+00	0.172600E+00	0.257800E+00
16.800	-0.780000E-02	0.330540E+01	0.107730E+01	0.204000E+01	-0.123900E+00	0.165800E+00	0.245000E+00
17.000	-0.560000E-02	0.330470E+01	0.954200E+00	0.205700E+01	-0.118500E+00	0.159300E+00	0.232600E+00
17.200	-0.380000E-02	0.330340E+01	0.905900E+00	0.207190E+01	-0.113200E+00	0.153100E+00	0.220400E+00
17.400	-0.220000E-02	0.330160E+01	0.864100E+00	0.208450E+01	-0.108100E+00	0.147300E+00	0.208300E+00
17.600	-0.700000E-03	0.329910E+01	0.832300E+00	0.209350E+01	-0.103300E+00	0.141700E+00	0.196400E+00
17.800	0.500000E-03	0.329610E+01	0.821000E+00	0.209550E+01	-0.986000E-01	0.136500E+00	0.184400E+00
18.000	0.160000E-02	0.329270E+01	0.878400E+00	0.207080E+01	-0.940000E-01	0.131500E+00	0.171800E+00
18.600	0.420000E-02	0.327980E+01	0.220940E+01	0.433000E+00	-0.814000E-01	0.118000E+00	0.153600E+00
19.000	0.540000E-02	0.326980E+01	0.221540E+01	0.427100E+00	-0.737000E-01	0.110100E+00	0.177900E+00
19.200	0.590000E-02	0.326450E+01	0.222190E+01	0.409700E+00	-0.700000E-01	0.106500E+00	0.182100E+00

1								
2								
3	19.400	0.640000E-02	0.325910E+01	0.222890E+01	0.390500E+00	-0.664000E-01	0.103000E+00	0.185500E+00
4	19.800	0.710000E-02	0.324820E+01	0.224330E+01	0.352000E+00	-0.595000E-01	0.967000E-01	0.191300E+00
5	20.000	0.740000E-02	0.324260E+01	0.225030E+01	0.333700E+00	-0.561000E-01	0.938000E-01	0.193900E+00
6	20.400	0.790000E-02	0.323160E+01	0.226390E+01	0.300000E+00	-0.494000E-01	0.886000E-01	0.198700E+00
7	20.600	0.810000E-02	0.322620E+01	0.227040E+01	0.284600E+00	-0.461000E-01	0.862000E-01	0.201000E+00
8	21.600	0.860000E-02	0.320030E+01	0.229970E+01	0.221300E+00	-0.288000E-01	0.767000E-01	0.211100E+00
9	22.400	0.880000E-02	0.318140E+01	0.231970E+01	0.183500E+00	-0.127000E-01	0.720000E-01	0.217900E+00
10	22.600	0.880000E-02	0.317700E+01	0.232430E+01	0.175200E+00	-0.820000E-02	0.713000E-01	0.219500E+00
11	22.800	0.880000E-02	0.317270E+01	0.232880E+01	0.167400E+00	-0.350000E-02	0.706000E-01	0.221000E+00
12	23.000	0.880000E-02	0.316850E+01	0.233310E+01	0.159800E+00	0.130000E-02	0.702000E-01	0.222400E+00
13	23.200	0.880000E-02	0.316440E+01	0.233720E+01	0.152400E+00	0.620000E-02	0.699000E-01	0.223800E+00
14	23.800	0.870000E-02	0.315280E+01	0.234880E+01	0.131000E+00	0.196000E-01	0.699000E-01	0.227600E+00
15	24.000	0.870000E-02	0.314910E+01	0.235250E+01	0.124200E+00	0.232000E-01	0.701000E-01	0.228700E+00
16	24.200	0.860000E-02	0.314550E+01	0.235600E+01	0.117500E+00	0.260000E-01	0.704000E-01	0.229900E+00
17	24.400	0.860000E-02	0.314210E+01	0.235940E+01	0.111100E+00	0.280000E-01	0.708000E-01	0.230900E+00
18	24.600	0.850000E-02	0.313870E+01	0.236270E+01	0.105100E+00	0.291000E-01	0.712000E-01	0.231900E+00
19	24.800	0.850000E-02	0.313540E+01	0.236590E+01	0.994000E-01	0.294000E-01	0.715000E-01	0.232900E+00
20	25.000	0.840000E-02	0.313220E+01	0.236890E+01	0.941000E-01	0.290000E-01	0.718000E-01	0.233800E+00
21	25.200	0.840000E-02	0.312910E+01	0.237190E+01	0.893000E-01	0.281000E-01	0.720000E-01	0.234700E+00
22	25.400	0.830000E-02	0.312610E+01	0.237480E+01	0.848000E-01	0.268000E-01	0.720000E-01	0.235600E+00
23	25.600	0.830000E-02	0.312320E+01	0.237770E+01	0.807000E-01	0.251000E-01	0.718000E-01	0.236400E+00
24	25.800	0.820000E-02	0.312040E+01	0.238040E+01	0.770000E-01	0.234000E-01	0.715000E-01	0.237100E+00
25	26.000	0.820000E-02	0.311760E+01	0.238300E+01	0.735000E-01	0.216000E-01	0.710000E-01	0.237800E+00
26	26.200	0.810000E-02	0.311490E+01	0.238560E+01	0.704000E-01	0.198000E-01	0.704000E-01	0.238500E+00
27	26.400	0.800000E-02	0.311230E+01	0.238810E+01	0.674000E-01	0.181000E-01	0.697000E-01	0.239100E+00
28	26.600	0.800000E-02	0.310970E+01	0.239050E+01	0.647000E-01	0.165000E-01	0.689000E-01	0.239700E+00
29	26.800	0.790000E-02	0.310720E+01	0.239290E+01	0.622000E-01	0.150000E-01	0.680000E-01	0.240300E+00
30	27.000	0.780000E-02	0.310480E+01	0.239510E+01	0.598000E-01	0.136000E-01	0.670000E-01	0.240800E+00
31	27.200	0.780000E-02	0.310250E+01	0.239740E+01	0.576000E-01	0.124000E-01	0.659000E-01	0.241300E+00
32	27.400	0.770000E-02	0.310020E+01	0.239950E+01	0.556000E-01	0.113000E-01	0.649000E-01	0.241800E+00
33	27.600	0.770000E-02	0.309790E+01	0.240160E+01	0.536000E-01	0.103000E-01	0.639000E-01	0.242300E+00
34	27.800	0.760000E-02	0.309580E+01	0.240360E+01	0.518000E-01	0.940000E-02	0.628000E-01	0.242700E+00
35	28.000	0.750000E-02	0.309370E+01	0.240560E+01	0.500000E-01	0.860000E-02	0.617000E-01	0.243100E+00
36	28.200	0.750000E-02	0.309160E+01	0.240750E+01	0.484000E-01	0.790000E-02	0.607000E-01	0.243400E+00
37	28.400	0.740000E-02	0.308960E+01	0.240940E+01	0.468000E-01	0.730000E-02	0.597000E-01	0.243800E+00
38	28.600	0.730000E-02	0.308760E+01	0.241120E+01	0.453000E-01	0.670000E-02	0.587000E-01	0.244100E+00
39	28.800	0.730000E-02	0.308570E+01	0.241300E+01	0.438000E-01	0.620000E-02	0.577000E-01	0.244400E+00
40	29.000	0.720000E-02	0.308390E+01	0.241470E+01	0.425000E-01	0.580000E-02	0.568000E-01	0.244700E+00
41	29.200	0.710000E-02	0.308210E+01	0.241640E+01	0.411000E-01	0.540000E-02	0.559000E-01	0.245000E+00
42	29.400	0.710000E-02	0.308030E+01	0.241800E+01	0.399000E-01	0.500000E-02	0.550000E-01	0.245200E+00
43	29.600	0.700000E-02	0.307860E+01	0.241960E+01	0.387000E-01	0.470000E-02	0.542000E-01	0.245400E+00
44	29.800	0.690000E-02	0.307690E+01	0.242110E+01	0.375000E-01	0.440000E-02	0.534000E-01	0.245600E+00
45	30.000	0.690000E-02	0.307460E+01	0.242220E+01	0.363000E-01	0.420000E-02	0.526000E-01	0.245800E+00
46	30.400	0.680000E-02	0.307110E+01	0.242560E+01	0.342000E-01	0.370000E-02	0.512000E-01	0.246200E+00

Table 2: $(2)^1\Sigma^+ - (2-7)^1\Sigma^+$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
4.400	0.718600E+00	-0.207130E+01	0.168080E+01	0.269160E+01	-0.150110E+01	0.124590E+01
4.600	0.670000E+00	-0.226290E+01	0.160000E+01	0.264800E+01	-0.142740E+01	0.123780E+01
4.800	0.625800E+00	-0.243820E+01	0.151860E+01	0.259110E+01	-0.138700E+01	0.120430E+01
5.000	0.587200E+00	-0.259170E+01	0.143730E+01	0.253820E+01	-0.136740E+01	0.115230E+01
5.200	0.553700E+00	-0.271950E+01	0.135810E+01	0.250090E+01	-0.136220E+01	0.109070E+01
5.400	0.523800E+00	-0.281920E+01	0.128450E+01	0.248600E+01	-0.136750E+01	0.102860E+01
5.600	0.495700E+00	-0.288990E+01	0.122030E+01	0.249730E+01	-0.138000E+01	0.974000E+00
5.800	0.467400E+00	-0.293230E+01	0.116820E+01	0.253590E+01	-0.139720E+01	0.932100E+00
6.000	0.437400E+00	-0.294750E+01	0.112960E+01	0.260190E+01	-0.141670E+01	0.906000E+00
6.200	0.404000E+00	-0.293710E+01	0.110460E+01	0.269370E+01	-0.143630E+01	0.897000E+00
6.800	0.268800E+00	-0.276750E+01	0.110880E+01	0.309630E+01	-0.147810E+01	0.967200E+00
7.000	0.207200E+00	-0.266950E+01	0.114010E+01	0.325770E+01	-0.148330E+01	0.101660E+01
7.400	0.505000E-01	-0.241950E+01	0.130440E+01	0.357140E+01	-0.148090E+01	0.113460E+01
7.600	-0.476000E-01	-0.227070E+01	0.156980E+01	0.365790E+01	-0.147580E+01	0.119550E+01
7.800	-0.160600E+00	-0.210880E+01	0.284470E+01	0.302840E+01	-0.146960E+01	0.125010E+01
8.000	-0.289600E+00	-0.193600E+01	0.432200E+01	0.144000E-01	-0.146450E+01	0.129610E+01
8.200	-0.435500E+00	-0.175510E+01	0.444840E+01	-0.522100E+00	-0.146120E+01	0.132990E+01
8.400	-0.598700E+00	-0.156890E+01	0.457280E+01	-0.685100E+00	-0.146120E+01	0.135100E+01
8.600	-0.779000E+00	-0.138060E+01	0.469380E+01	-0.761900E+00	-0.146530E+01	0.135930E+01
8.800	-0.976100E+00	-0.119300E+01	0.480600E+01	-0.804700E+00	-0.147410E+01	0.135580E+01
9.000	-0.118870E+01	-0.100890E+01	0.490720E+01	-0.829800E+00	-0.148780E+01	0.134160E+01
9.200	-0.141530E+01	-0.830900E+00	0.499710E+01	-0.843700E+00	-0.150640E+01	0.131780E+01
9.400	-0.165370E+01	-0.660700E+00	0.507640E+01	-0.849700E+00	-0.152950E+01	0.128540E+01
9.800	-0.215560E+01	-0.348500E+00	0.520780E+01	-0.844700E+00	-0.158690E+01	0.119660E+01
10.000	-0.241330E+01	-0.207000E+00	0.526300E+01	-0.835900E+00	-0.161920E+01	0.113980E+01
10.200	-0.267120E+01	-0.745000E-01	0.531340E+01	-0.823900E+00	-0.165220E+01	0.107280E+01
10.400	-0.292640E+01	0.501000E-01	0.536050E+01	-0.809700E+00	-0.168450E+01	0.992700E+00
10.600	-0.317600E+01	0.168500E+00	0.540560E+01	-0.793800E+00	-0.171480E+01	0.894000E+00
10.800	-0.341710E+01	0.282700E+00	0.544970E+01	-0.776800E+00	-0.174170E+01	0.767800E+00
11.000	-0.364750E+01	0.395200E+00	0.549370E+01	-0.759200E+00	-0.176400E+01	0.602300E+00
11.200	-0.386490E+01	0.508600E+00	0.553810E+01	-0.741400E+00	-0.178060E+01	0.391600E+00
11.400	-0.406750E+01	0.626000E+00	0.558290E+01	-0.723500E+00	-0.179080E+01	0.162400E+00
11.600	-0.425370E+01	0.751200E+00	0.562790E+01	-0.705500E+00	-0.179420E+01	0.171000E-01
11.800	-0.442220E+01	0.888600E+00	0.567200E+01	-0.687400E+00	-0.178970E+01	0.864000E-01
12.000	-0.457190E+01	0.104410E+01	0.571360E+01	-0.669000E+00	-0.177220E+01	-0.180000E-01
12.200	-0.470180E+01	0.122520E+01	0.574960E+01	-0.650000E+00	-0.171810E+01	-0.205900E+00
12.400	-0.481110E+01	0.144250E+01	0.577500E+01	-0.630100E+00	-0.157630E+01	-0.544400E+00
12.600	-0.489910E+01	0.171110E+01	0.578110E+01	-0.609000E+00	-0.135770E+01	-0.823300E+00
12.800	-0.496510E+01	0.205170E+01	0.575290E+01	-0.586400E+00	-0.114880E+01	-0.955500E+00
13.000	-0.500850E+01	0.249210E+01	0.566420E+01	-0.562000E+00	-0.975700E+00	-0.991000E+00
13.200	-0.502900E+01	0.306040E+01	0.547130E+01	-0.535500E+00	-0.826400E+00	-0.978300E+00
13.400	-0.502600E+01	0.376080E+01	0.511580E+01	-0.506400E+00	-0.688500E+00	-0.942900E+00
13.600	-0.499940E+01	0.452670E+01	0.456370E+01	-0.474600E+00	-0.554800E+00	-0.897500E+00
13.800	-0.494900E+01	0.522050E+01	0.387790E+01	-0.439800E+00	-0.421000E+00	-0.849000E+00
14.000	-0.487500E+01	0.574250E+01	0.319920E+01	-0.401800E+00	-0.285200E+00	-0.801100E+00
14.200	-0.477770E+01	0.609510E+01	0.262680E+01	-0.360200E+00	-0.146000E+00	-0.756100E+00
14.400	-0.465800E+01	0.632720E+01	0.217920E+01	-0.315000E+00	0.330000E-02	-0.715200E+00
14.600	-0.451710E+01	0.648120E+01	0.183650E+01	-0.266100E+00	0.142900E+00	-0.678800E+00
14.800	-0.435640E+01	0.658320E+01	0.157270E+01	-0.213500E+00	0.292200E+00	-0.647000E+00
15.000	-0.417800E+01	0.664740E+01	0.136660E+01	-0.157100E+00	0.444000E+00	-0.619700E+00
15.200	-0.398440E+01	0.668150E+01	0.120300E+01	-0.972000E-01	0.597300E+00	-0.596400E+00
15.400	-0.377850E+01	0.668970E+01	0.107120E+01	-0.338000E-01	0.751300E+00	-0.576600E+00
15.600	-0.356320E+01	0.667460E+01	0.963700E+00	0.326000E-01	0.904600E+00	-0.559900E+00
15.800	-0.334190E+01	0.663790E+01	0.875000E+00	0.101800E+00	0.105650E+01	-0.545800E+00
16.200	-0.289450E+01	0.650660E+01	0.740600E+00	0.246400E+00	0.135080E+01	-0.523600E+00
16.400	-0.267450E+01	0.641560E+01	0.690000E+00	0.320900E+00	0.149120E+01	-0.514600E+00
16.600	-0.246070E+01	0.631040E+01	0.648700E+00	0.396100E+00	0.162600E+01	-0.506700E+00
16.800	-0.225520E+01	0.619320E+01	0.615800E+00	0.471500E+00	0.175440E+01	-0.499400E+00
17.000	-0.205960E+01	0.606620E+01	0.591500E+00	0.546500E+00	0.187590E+01	-0.492700E+00
17.200	-0.187540E+01	0.593160E+01	0.576700E+00	0.620600E+00	0.199010E+01	-0.486400E+00
17.400	-0.170330E+01	0.579140E+01	0.574500E+00	0.693400E+00	0.209660E+01	-0.480000E+00
17.600	-0.154370E+01	0.564650E+01	0.593200E+00	0.764400E+00	0.219550E+01	-0.473400E+00
17.800	-0.139670E+01	0.549550E+01	0.657700E+00	0.833300E+00	0.228670E+01	-0.466400E+00
18.000	-0.126200E+01	0.531940E+01	0.887400E+00	0.899700E+00	0.237040E+01	-0.458200E+00
18.600	-0.926800E+00	0.336000E-01	0.498710E+01	0.108110E+01	0.257880E+01	-0.152300E+00
19.000	-0.754000E+00	0.147900E+00	0.474050E+01	0.118470E+01	0.268520E+01	-0.166900E+00
19.200	-0.680400E+00	0.163700E+00	0.462760E+01	0.123050E+01	0.272970E+01	-0.154200E+00
19.400	-0.614400E+00	0.170900E+00	0.452200E+01	0.127210E+01	0.276880E+01	-0.140600E+00
19.800	-0.502300E+00	0.173300E+00	0.433400E+01	0.134140E+01	0.283230E+01	-0.114200E+00
20.000	-0.454900E+00	0.171600E+00	0.425200E+01	0.136860E+01	0.285730E+01	-0.101800E+00
20.400	-0.374500E+00	0.165600E+00	0.411230E+01	0.140590E+01	0.289490E+01	-0.793000E-01
20.600	-0.340600E+00	0.161900E+00	0.405500E+01	0.141510E+01	0.290800E+01	-0.691000E-01
21.600	-0.217000E+00	0.141500E+00	0.389840E+01	0.133830E+01	0.292170E+01	-0.282000E-01
22.400	-0.156400E+00	0.125800E+00	0.393220E+01	0.105730E+01	0.286960E+01	-0.660000E-02
22.600	-0.144800E+00	0.122100E+00	0.396040E+01	0.942000E+00	0.284660E+01	-0.190000E-02
22.800	-0.134300E+00	0.118500E+00	0.399440E+01	0.804700E+00	0.281870E+01	0.220000E-02
23.000	-0.124800E+00	0.115100E+00	0.403220E+01	0.643900E+00	0.278540E+01	0.580000E-02

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3	23.200	-0.116200E+00	0.111700E+00	0.407090E+01	0.458900E+00	0.274620E+01	0.910000E-02
4	23.800	-0.949000E-01	0.102200E+00	0.416140E+01	0.222900E+00	0.258600E+01	0.173000E-01
5	24.000	-0.891000E-01	0.992000E-01	0.417390E+01	0.477200E+00	0.251580E+01	0.185000E-01
6	24.200	-0.837000E-01	0.963000E-01	0.417530E+01	0.733600E+00	0.243640E+01	0.202000E-01
7	24.400	-0.788000E-01	0.936000E-01	0.416660E+01	0.985300E+00	0.234760E+01	0.218000E-01
8	24.600	-0.743000E-01	0.909000E-01	0.414950E+01	0.122630E+01	0.224950E+01	0.231000E-01
9	24.800	-0.702000E-01	0.883000E-01	0.412620E+01	0.145210E+01	0.214290E+01	0.242000E-01
10	25.000	-0.664000E-01	0.858000E-01	0.409900E+01	0.165970E+01	0.202910E+01	0.252000E-01
11	25.200	-0.629000E-01	0.833000E-01	0.406990E+01	0.184720E+01	0.191010E+01	0.261000E-01
12	25.400	-0.597000E-01	0.810000E-01	0.404040E+01	0.201440E+01	0.178790E+01	0.266000E-01
13	25.600	-0.567000E-01	0.787000E-01	0.401160E+01	0.216150E+01	0.166490E+01	0.269000E-01
14	25.800	-0.539000E-01	0.765000E-01	0.398410E+01	0.228940E+01	0.154360E+01	0.273000E-01
15	26.000	-0.514000E-01	0.744000E-01	0.395830E+01	0.239950E+01	0.142600E+01	0.275000E-01
16	26.200	-0.490000E-01	0.724000E-01	0.393440E+01	0.249370E+01	0.131370E+01	0.277000E-01
17	26.400	-0.468000E-01	0.704000E-01	0.391240E+01	0.257380E+01	0.120760E+01	0.277000E-01
18	26.600	-0.447000E-01	0.685000E-01	0.389240E+01	0.264170E+01	0.110860E+01	0.275000E-01
19	26.800	-0.428000E-01	0.666000E-01	0.387410E+01	0.269910E+01	0.101700E+01	0.274000E-01
20	27.000	-0.410000E-01	0.648000E-01	0.385760E+01	0.274750E+01	0.932400E+00	0.268000E-01
21	27.200	-0.393000E-01	0.631000E-01	0.384260E+01	0.278840E+01	0.855200E+00	0.266000E-01
22	27.400	-0.378000E-01	0.614000E-01	0.382890E+01	0.282300E+01	0.784700E+00	0.262000E-01
23	27.600	-0.363000E-01	0.598000E-01	0.381660E+01	0.285220E+01	0.720600E+00	0.258000E-01
24	27.800	-0.349000E-01	0.582000E-01	0.380540E+01	0.287700E+01	0.662300E+00	0.255000E-01
25	28.000	-0.336000E-01	0.567000E-01	0.379520E+01	0.289810E+01	0.609300E+00	0.250000E-01
26	28.200	-0.324000E-01	0.552000E-01	0.378600E+01	0.291610E+01	0.561200E+00	0.245000E-01
27	28.400	-0.312000E-01	0.538000E-01	0.377750E+01	0.293140E+01	0.517400E+00	0.240000E-01
28	28.600	-0.301000E-01	0.524000E-01	0.376980E+01	0.294460E+01	0.477900E+00	0.237000E-01
29	28.800	-0.290000E-01	0.511000E-01	0.376280E+01	0.295590E+01	0.441800E+00	0.232000E-01
30	29.000	-0.281000E-01	0.498000E-01	0.375630E+01	0.296560E+01	0.408500E+00	0.223000E-01
31	29.200	-0.271000E-01	0.485000E-01	0.375040E+01	0.297400E+01	0.378500E+00	0.218000E-01
32	29.400	-0.262000E-01	0.473000E-01	0.374490E+01	0.298120E+01	0.351100E+00	0.213000E-01
33	29.600	-0.254000E-01	0.461000E-01	0.373990E+01	0.298750E+01	0.326000E+00	0.207000E-01
34	29.800	-0.246000E-01	0.450000E-01	0.373520E+01	0.299290E+01	0.303100E+00	0.201000E-01
35	30.000	-0.238000E-01	0.439000E-01	0.373090E+01	0.299770E+01	0.282100E+00	0.196000E-01
36	30.400	-0.224000E-01	0.418000E-01	0.372220E+01	0.300460E+01	0.245000E+00	0.185000E-01
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Table 3: $(3)^1\Sigma^+ - (3-7)^1\Sigma^+$ transitions

R	3-3	3-4	3-5	3-6	3-7
4.400	-0.499000E+00	0.125000E+01	-0.248440E+01	0.129590E+01	-0.140360E+01
4.600	-0.502800E+00	0.130530E+01	-0.268420E+01	0.126590E+01	-0.131640E+01
4.800	-0.507100E+00	0.136300E+01	-0.289920E+01	0.123460E+01	-0.126580E+01
5.000	-0.519600E+00	0.141980E+01	-0.310670E+01	0.121750E+01	-0.125820E+01
5.200	-0.543200E+00	0.147090E+01	-0.328980E+01	0.122350E+01	-0.129120E+01
5.400	-0.576700E+00	0.151230E+01	-0.343740E+01	0.125530E+01	-0.135790E+01
5.600	-0.616900E+00	0.154170E+01	-0.354360E+01	0.131260E+01	-0.144940E+01
5.800	-0.660300E+00	0.155820E+01	-0.360640E+01	0.139410E+01	-0.155660E+01
6.000	-0.704300E+00	0.156250E+01	-0.362600E+01	0.149790E+01	-0.167270E+01
6.200	-0.747200E+00	0.155580E+01	-0.360390E+01	0.162140E+01	-0.179350E+01
6.800	-0.859200E+00	0.147720E+01	-0.331600E+01	0.207380E+01	-0.217490E+01
7.000	-0.888100E+00	0.143020E+01	-0.316030E+01	0.223640E+01	-0.230830E+01
7.400	-0.925200E+00	0.127150E+01	-0.280550E+01	0.255230E+01	-0.257410E+01
7.600	-0.929700E+00	0.107870E+01	-0.265210E+01	0.269950E+01	-0.270140E+01
7.800	-0.922100E+00	0.158500E+00	-0.263350E+01	0.283720E+01	-0.281550E+01
8.000	-0.900400E+00	0.159630E+01	-0.180620E+01	0.296550E+01	-0.291570E+01
8.200	-0.862700E+00	0.157760E+01	-0.151060E+01	0.308510E+01	-0.299630E+01
8.400	-0.807600E+00	0.140050E+01	-0.137610E+01	0.319740E+01	-0.305750E+01
8.600	-0.734400E+00	0.119800E+01	-0.127770E+01	0.330380E+01	-0.309970E+01
8.800	-0.642800E+00	0.994800E+00	-0.119010E+01	0.340610E+01	-0.312450E+01
9.000	-0.533600E+00	0.800200E+00	-0.110470E+01	0.350540E+01	-0.313430E+01
9.200	-0.408200E+00	0.619600E+00	-0.101800E+01	0.360260E+01	-0.313170E+01
9.400	-0.268700E+00	0.456100E+00	-0.928200E+00	0.369800E+01	-0.311950E+01
9.800	0.419000E-01	0.189000E+00	-0.737500E+00	0.388200E+01	-0.307960E+01
10.000	0.206700E+00	0.876000E-01	-0.637500E+00	0.396830E+01	-0.305950E+01
10.200	0.373600E+00	0.810000E-02	-0.535800E+00	0.404840E+01	-0.304590E+01
10.400	0.539500E+00	-0.497000E-01	-0.434100E+00	0.411990E+01	-0.304580E+01
10.600	0.701200E+00	-0.862000E-01	-0.333800E+00	0.417990E+01	-0.306810E+01
10.800	0.855900E+00	-0.102200E+00	-0.236700E+00	0.422430E+01	-0.312410E+01
11.000	0.100090E+01	-0.983000E-01	-0.143900E+00	0.424770E+01	-0.322460E+01
11.200	0.113380E+01	-0.750000E-01	-0.564000E-01	0.424180E+01	-0.337030E+01
11.400	0.125220E+01	-0.327000E-01	-0.254000E-01	0.419290E+01	-0.354600E+01
11.600	0.135370E+01	0.288000E-01	0.101500E+00	0.407650E+01	-0.374830E+01
11.800	0.143550E+01	0.110400E+00	0.172500E+00	0.384430E+01	-0.402030E+01
12.000	0.149440E+01	0.213700E+00	0.239400E+00	0.339630E+01	-0.442470E+01
12.200	0.152600E+01	0.342100E+00	0.303900E+00	0.254900E+01	-0.497520E+01
12.400	0.152350E+01	0.500400E+00	0.368500E+00	0.120040E+01	-0.547080E+01
12.600	0.147590E+01	0.695600E+00	0.436500E+00	0.228100E+00	-0.560760E+01
12.800	0.136420E+01	0.936800E+00	0.512600E+00	0.133330E+01	-0.546900E+01
13.000	0.115520E+01	0.123160E+01	0.603200E+00	0.220120E+01	-0.521630E+01
13.200	0.795500E+00	0.157490E+01	0.715400E+00	0.300240E+01	-0.487580E+01
13.400	0.220700E+00	0.192150E+01	0.853500E+00	0.382410E+01	-0.441490E+01
13.600	-0.585400E+00	0.216510E+01	0.101080E+01	0.464020E+01	-0.381710E+01
13.800	-0.151290E+01	0.220580E+01	0.116760E+01	0.533540E+01	-0.314760E+01
14.000	-0.239640E+01	0.206580E+01	0.130770E+01	0.582880E+01	-0.252770E+01
14.200	-0.316150E+01	0.184740E+01	0.142950E+01	0.613910E+01	-0.203120E+01
14.400	-0.382240E+01	0.162540E+01	0.153840E+01	0.632630E+01	-0.166150E+01
14.600	-0.441490E+01	0.142890E+01	0.163950E+01	0.643930E+01	-0.139220E+01
14.800	-0.496710E+01	0.126280E+01	0.173590E+01	0.650780E+01	-0.119500E+01
15.000	-0.549610E+01	0.112440E+01	0.182910E+01	0.654870E+01	-0.104840E+01
15.200	-0.601110E+01	0.100890E+01	0.192010E+01	0.657170E+01	-0.937000E+00
15.400	-0.651670E+01	0.912400E+00	0.200910E+01	0.658220E+01	-0.850400E+00
15.600	-0.701430E+01	0.831600E+00	0.209650E+01	0.658380E+01	-0.781200E+00
15.800	-0.750370E+01	0.763800E+00	0.218240E+01	0.657870E+01	-0.725100E+00
16.200	-0.845210E+01	0.661000E+00	0.234990E+01	0.655500E+01	-0.639300E+00
16.400	-0.890740E+01	0.624100E+00	0.243200E+01	0.653890E+01	-0.606000E+00
16.600	-0.934740E+01	0.596600E+00	0.251320E+01	0.652140E+01	-0.577700E+00
16.800	-0.977030E+01	0.579200E+00	0.259370E+01	0.650330E+01	-0.554200E+00
17.000	-0.101745E+02	0.573700E+00	0.267390E+01	0.648560E+01	-0.535600E+00
17.200	-0.105585E+02	0.584300E+00	0.275390E+01	0.646860E+01	-0.523300E+00
17.400	-0.109207E+02	0.619400E+00	0.283410E+01	0.645270E+01	-0.519300E+00
17.600	-0.112577E+02	0.699700E+00	0.291440E+01	0.643720E+01	-0.529700E+00
17.800	-0.115594E+02	0.886200E+00	0.299350E+01	0.641790E+01	-0.572600E+00
18.000	-0.117544E+02	0.146320E+01	0.306080E+01	0.636710E+01	-0.731900E+00
18.600	0.331200E+00	0.519800E+00	0.420000E-01	0.146000E+00	-0.418500E+00
19.000	0.302400E+00	0.208900E+00	-0.428000E-01	0.280800E+00	-0.395000E-01
19.200	0.283600E+00	0.155000E+00	-0.588000E-01	0.296800E+00	-0.155000E-01
19.400	0.265600E+00	0.122800E+00	-0.688000E-01	0.302100E+00	-0.630000E-02
19.800	0.233400E+00	0.901000E-01	-0.797000E-01	0.297800E+00	-0.430000E-02
20.000	0.219100E+00	0.820000E-01	-0.824000E-01	0.292100E+00	0.650000E-02
20.400	0.193800E+00	0.744000E-01	-0.846000E-01	0.277600E+00	0.131000E-01
20.600	0.182600E+00	0.732000E-01	-0.846000E-01	0.269600E+00	0.166000E-01
21.600	0.138400E+00	0.798000E-01	-0.758000E-01	0.229200E+00	0.319000E-01
22.400	0.113500E+00	0.919000E-01	-0.597000E-01	0.199600E+00	0.396000E-01
22.600	0.108300E+00	0.954000E-01	-0.541000E-01	0.192500E+00	0.408000E-01
22.800	0.103500E+00	0.988000E-01	-0.479000E-01	0.185600E+00	0.419000E-01
23.000	0.989000E-01	0.102200E+00	-0.408000E-01	0.178800E+00	0.429000E-01

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3	23.200	0.947000E-01	0.105500E+00	-0.331000E-01	0.172100E+00	0.437000E-01
4	23.800	0.836000E-01	0.112600E+00	-0.590000E-02	0.152100E+00	0.451000E-01
5	24.000	0.804000E-01	0.113800E+00	-0.390000E-02	0.145300E+00	0.456000E-01
6	24.200	0.773000E-01	0.114300E+00	0.136000E-01	0.138500E+00	0.457000E-01
7	24.400	0.744000E-01	0.114200E+00	0.231000E-01	0.131500E+00	0.457000E-01
8	24.600	0.717000E-01	0.113500E+00	0.321000E-01	0.124400E+00	0.456000E-01
9	24.800	0.691000E-01	0.112400E+00	0.404000E-01	0.117300E+00	0.454000E-01
10	25.000	0.667000E-01	0.110900E+00	0.479000E-01	0.110100E+00	0.451000E-01
11	25.200	0.644000E-01	0.109200E+00	0.546000E-01	0.102900E+00	0.450000E-01
12	25.400	0.622000E-01	0.107300E+00	0.603000E-01	0.959000E-01	0.444000E-01
13	25.600	0.601000E-01	0.105300E+00	0.650000E-01	0.891000E-01	0.439000E-01
14	25.800	0.581000E-01	0.103300E+00	0.690000E-01	0.825000E-01	0.434000E-01
15	26.000	0.563000E-01	0.101200E+00	0.721000E-01	0.762000E-01	0.428000E-01
16	26.200	0.545000E-01	0.992000E-01	0.745000E-01	0.702000E-01	0.423000E-01
17	26.400	0.528000E-01	0.971000E-01	0.763000E-01	0.647000E-01	0.417000E-01
18	26.600	0.512000E-01	0.951000E-01	0.775000E-01	0.596000E-01	0.410000E-01
19	26.800	0.497000E-01	0.932000E-01	0.783000E-01	0.549000E-01	0.404000E-01
20	27.000	0.482000E-01	0.913000E-01	0.787000E-01	0.505000E-01	0.398000E-01
21	27.200	0.468000E-01	0.894000E-01	0.788000E-01	0.465000E-01	0.392000E-01
22	27.400	0.455000E-01	0.876000E-01	0.786000E-01	0.429000E-01	0.385000E-01
23	27.600	0.442000E-01	0.859000E-01	0.782000E-01	0.396000E-01	0.378000E-01
24	27.800	0.430000E-01	0.841000E-01	0.776000E-01	0.366000E-01	0.371000E-01
25	28.000	0.418000E-01	0.825000E-01	0.769000E-01	0.338000E-01	0.364000E-01
26	28.200	0.407000E-01	0.809000E-01	0.761000E-01	0.313000E-01	0.357000E-01
27	28.400	0.396000E-01	0.793000E-01	0.752000E-01	0.290000E-01	0.350000E-01
28	28.600	0.386000E-01	0.777000E-01	0.742000E-01	0.268000E-01	0.344000E-01
29	28.800	0.376000E-01	0.762000E-01	0.732000E-01	0.250000E-01	0.336000E-01
30	29.000	0.367000E-01	0.748000E-01	0.721000E-01	0.234000E-01	0.328000E-01
31	29.200	0.357000E-01	0.733000E-01	0.710000E-01	0.218000E-01	0.322000E-01
32	29.400	0.349000E-01	0.719000E-01	0.700000E-01	0.203000E-01	0.315000E-01
33	29.600	0.340000E-01	0.706000E-01	0.688000E-01	0.190000E-01	0.308000E-01
34	29.800	0.332000E-01	0.693000E-01	0.677000E-01	0.177000E-01	0.302000E-01
35	30.000	0.324000E-01	0.680000E-01	0.666000E-01	0.166000E-01	0.295000E-01
36	30.400	0.309000E-01	0.655000E-01	0.644000E-01	0.146000E-01	0.283000E-01
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Table 4: $(4)^1\Sigma^+ - (4-7)^1\Sigma^+$ transitions

R	4-4	4-5	4-6	4-7
4.400	-0.162810E+01	-0.287390E+01	0.463210E+01	0.111200E+00
4.600	-0.171870E+01	-0.271760E+01	0.461870E+01	0.211700E+00
4.800	-0.177600E+01	-0.258190E+01	0.459940E+01	0.263600E+00
5.000	-0.179960E+01	-0.244940E+01	0.459240E+01	0.268600E+00
5.200	-0.179650E+01	-0.231480E+01	0.460540E+01	0.232900E+00
5.400	-0.177650E+01	-0.217910E+01	0.463920E+01	0.165300E+00
5.600	-0.174910E+01	-0.204510E+01	0.469150E+01	0.748000E-01
5.800	-0.172080E+01	-0.191530E+01	0.475910E+01	-0.302000E-01
6.000	-0.169520E+01	-0.179100E+01	0.483820E+01	-0.143800E+00
6.200	-0.167310E+01	-0.167270E+01	0.492550E+01	-0.263300E+00
6.800	-0.161100E+01	-0.136810E+01	0.521070E+01	-0.668000E+00
7.000	-0.157950E+01	-0.129850E+01	0.530910E+01	-0.831200E+00
7.400	-0.144660E+01	-0.130650E+01	0.552890E+01	-0.124540E+01
7.600	-0.123630E+01	-0.156430E+01	0.569880E+01	-0.156850E+01
7.800	0.388300E+00	-0.280070E+01	0.592070E+01	-0.234900E+01
8.000	0.411130E+01	-0.804200E+00	0.370330E+01	-0.237440E+01
8.200	0.409880E+01	-0.118900E+00	0.317290E+01	-0.199490E+01
8.400	0.397150E+01	0.618000E-01	0.305660E+01	-0.174610E+01
8.600	0.383450E+01	0.132400E+00	0.302870E+01	-0.157100E+01
8.800	0.369150E+01	0.166200E+00	0.302660E+01	-0.145250E+01
9.000	0.354100E+01	0.185100E+00	0.303120E+01	-0.138250E+01
9.200	0.338130E+01	0.197000E+00	0.303570E+01	-0.135460E+01
9.400	0.321140E+01	0.204500E+00	0.303800E+01	-0.136390E+01
9.800	0.283760E+01	0.207300E+00	0.303730E+01	-0.148260E+01
10.000	0.263340E+01	0.200700E+00	0.303840E+01	-0.159070E+01
10.200	0.241790E+01	0.187100E+00	0.304450E+01	-0.173510E+01
10.400	0.219150E+01	0.165400E+00	0.306000E+01	-0.192410E+01
10.600	0.195490E+01	0.134900E+00	0.309000E+01	-0.217220E+01
10.800	0.170900E+01	0.952000E-01	0.314050E+01	-0.250000E+01
11.000	0.145470E+01	0.464000E-01	0.321920E+01	-0.292770E+01
11.200	0.119310E+01	-0.107000E-01	0.333640E+01	-0.344220E+01
11.400	0.925400E+00	-0.754000E-01	0.350670E+01	-0.394230E+01
11.600	0.653200E+00	-0.146300E+00	0.375310E+01	-0.426520E+01
11.800	0.378300E+00	-0.222000E+00	0.411250E+01	-0.430970E+01
12.000	0.103200E+00	-0.300900E+00	0.463850E+01	-0.401070E+01
12.200	-0.168000E+00	-0.381100E+00	0.535480E+01	-0.321650E+01
12.400	-0.429200E+00	-0.460300E+00	0.605450E+01	-0.182880E+01
12.600	-0.669600E+00	-0.535800E+00	0.636860E+01	-0.316800E+00
12.800	-0.870500E+00	-0.603200E+00	0.634870E+01	-0.836300E+00
13.000	-0.998600E+00	-0.656100E+00	0.617290E+01	-0.169080E+01
13.200	-0.100070E+01	-0.684300E+00	0.587610E+01	-0.241750E+01
13.400	-0.811800E+00	-0.674400E+00	0.541950E+01	-0.310710E+01
13.600	-0.415400E+00	-0.618100E+00	0.477730E+01	0.374840E+01
13.800	0.795000E-01	-0.526600E+00	0.402170E+01	-0.425830E+01
14.000	0.508800E+00	-0.428400E+00	0.330000E+01	-0.458470E+01
14.200	0.799400E+00	-0.344900E+00	0.270890E+01	-0.475470E+01
14.400	0.967400E+00	-0.281700E+00	0.226040E+01	-0.482260E+01
14.600	0.105090E+01	-0.236400E+00	0.192770E+01	-0.483060E+01
14.800	0.108050E+01	-0.205000E+00	0.167990E+01	-0.480360E+01
15.000	0.107630E+01	-0.183600E+00	0.149250E+01	-0.475570E+01
15.200	0.105100E+01	-0.169600E+00	0.134800E+01	-0.469460E+01
15.400	0.101240E+01	-0.161000E+00	0.123420E+01	-0.462500E+01
15.600	0.965900E+00	-0.156200E+00	0.114300E+01	-0.454960E+01
15.800	0.915000E+00	-0.154400E+00	0.106850E+01	-0.447120E+01
16.200	0.808400E+00	-0.157100E+00	0.955300E+00	-0.430990E+01
16.400	0.755500E+00	-0.160800E+00	0.912100E+00	-0.422900E+01
16.600	0.704000E+00	-0.166000E+00	0.876300E+00	-0.414910E+01
16.800	0.654300E+00	-0.172800E+00	0.847600E+00	-0.407050E+01
17.000	0.606400E+00	-0.181600E+00	0.826300E+00	-0.399380E+01
17.200	0.560100E+00	-0.193600E+00	0.814300E+00	-0.392030E+01
17.400	0.514400E+00	-0.211000E+00	0.815800E+00	-0.384760E+01
17.600	0.466600E+00	-0.238900E+00	0.841100E+00	-0.377600E+01
17.800	0.406300E+00	-0.292900E+00	0.921600E+00	-0.370250E+01
18.000	0.262200E+00	-0.446000E+00	0.120440E+01	-0.360940E+01
18.600	-0.127074E+02	0.336500E+01	0.649900E+01	-0.591700E+00
19.000	-0.131606E+02	0.356470E+01	0.653850E+01	-0.561000E+00
19.200	-0.133513E+02	0.367150E+01	0.656980E+01	-0.543300E+00
19.400	-0.135218E+02	0.378380E+01	0.660860E+01	-0.523500E+00
19.800	-0.138021E+02	0.402750E+01	0.670860E+01	-0.476100E+00
20.000	-0.139104E+02	0.416010E+01	0.677010E+01	-0.447700E+00
20.400	-0.140568E+02	0.445050E+01	0.691600E+01	-0.379400E+00
20.600	-0.140910E+02	0.460950E+01	0.700050E+01	-0.338800E+00
21.600	-0.137410E+02	0.556480E+01	0.752460E+01	0.536000E-01
22.400	-0.124979E+02	0.648250E+01	0.798340E+01	0.300800E+00
22.600	-0.119889E+02	0.670210E+01	0.807610E+01	0.408300E+00
22.800	-0.113856E+02	0.689760E+01	0.814750E+01	0.522600E+00
23.000	-0.106854E+02	0.705270E+01	0.818920E+01	0.642300E+00

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3	23.200	-0.989220E+01	0.714800E+01	0.819250E+01	0.765300E+00
4	23.800	-0.713440E+01	0.688970E+01	0.790450E+01	0.112500E+01
5	24.000	-0.619290E+01	0.659090E+01	0.770320E+01	0.123430E+01
6	24.200	-0.530070E+01	0.619680E+01	0.745760E+01	0.133050E+01
7	24.400	-0.448600E+01	0.573010E+01	0.717780E+01	0.141500E+01
8	24.600	-0.376570E+01	0.521840E+01	0.687430E+01	0.148820E+01
9	24.800	-0.314560E+01	0.468920E+01	0.655720E+01	0.155130E+01
10	25.000	-0.262230E+01	0.416630E+01	0.623450E+01	0.160540E+01
11	25.200	-0.218660E+01	0.366750E+01	0.591250E+01	0.165220E+01
12	25.400	-0.182720E+01	0.320510E+01	0.559570E+01	0.169250E+01
13	25.600	-0.153210E+01	0.278550E+01	0.528700E+01	0.172850E+01
14	25.800	-0.129000E+01	0.241160E+01	0.498910E+01	0.176060E+01
15	26.000	-0.109140E+01	0.208300E+01	0.470380E+01	0.178950E+01
16	26.200	-0.928200E+00	0.179720E+01	0.443270E+01	0.181550E+01
17	26.400	-0.793400E+00	0.155060E+01	0.417610E+01	0.183990E+01
18	26.600	-0.681700E+00	0.133890E+01	0.393450E+01	0.186260E+01
19	26.800	-0.588800E+00	0.115790E+01	0.370820E+01	0.188370E+01
20	27.000	-0.511200E+00	0.100330E+01	0.349650E+01	0.190370E+01
21	27.200	-0.446000E+00	0.871600E+00	0.329930E+01	0.192240E+01
22	27.400	-0.391000E+00	0.759300E+00	0.311590E+01	0.193990E+01
23	27.600	-0.344400E+00	0.663400E+00	0.294530E+01	0.195650E+01
24	27.800	-0.304800E+00	0.581400E+00	0.278690E+01	0.197220E+01
25	28.000	-0.271000E+00	0.511100E+00	0.263970E+01	0.198710E+01
26	28.200	-0.242100E+00	0.450800E+00	0.250300E+01	0.200130E+01
27	28.400	-0.217200E+00	0.398900E+00	0.237580E+01	0.201470E+01
28	28.600	-0.195700E+00	0.354100E+00	0.225740E+01	0.202760E+01
29	28.800	-0.177100E+00	0.315300E+00	0.214750E+01	0.203960E+01
30	29.000	-0.160900E+00	0.281700E+00	0.204490E+01	0.205110E+01
31	29.200	-0.146900E+00	0.252500E+00	0.194920E+01	0.206210E+01
32	29.400	-0.134600E+00	0.227000E+00	0.186000E+01	0.207240E+01
33	29.600	-0.123900E+00	0.204800E+00	0.177670E+01	0.208220E+01
34	29.800	-0.114500E+00	0.185300E+00	0.169870E+01	0.209170E+01
35	30.000	-0.106300E+00	0.168200E+00	0.162590E+01	0.210040E+01
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Table 5: $(1)^3\Sigma^+ - (1-7)^3\Sigma^+$ transitions

R	1-1	1-2	1-3	1-4	1-5	1-6	1-7
4.400	0.407000E-01	0.344570E+01	-0.125760E+01	0.542900E+00	0.756800E+00	0.454000E+00	-0.162600E+00
4.600	0.942000E-01	0.360480E+01	-0.105530E+01	0.563700E+00	0.755300E+00	0.367200E+00	-0.180500E+00
4.800	0.142700E+00	0.381910E+01	-0.474900E+00	0.569300E+00	0.721800E+00	0.303600E+00	-0.196100E+00
5.000	0.184100E+00	0.391720E+01	-0.421800E+00	0.562200E+00	0.670600E+00	0.260000E+00	-0.210400E+00
5.200	0.217100E+00	0.387480E+01	-0.109520E+01	0.546400E+00	0.613100E+00	0.229100E+00	-0.223900E+00
5.400	0.241400E+00	0.385000E+01	-0.142870E+01	0.525700E+00	0.555800E+00	0.205100E+00	-0.236900E+00
5.600	0.257300E+00	0.387120E+01	-0.157280E+01	0.503200E+00	0.502400E+00	0.184200E+00	-0.249100E+00
5.800	0.265200E+00	0.392000E+01	-0.162180E+01	0.481100E+00	0.454700E+00	0.164400E+00	-0.260000E+00
6.000	0.266400E+00	0.398120E+01	-0.161910E+01	0.460900E+00	0.413100E+00	0.145100E+00	-0.269200E+00
6.200	0.261800E+00	0.404560E+01	-0.158620E+01	0.443100E+00	0.377700E+00	0.126300E+00	-0.276400E+00
6.800	0.225100E+00	0.421960E+01	-0.139730E+01	0.406200E+00	0.305800E+00	0.748000E-01	-0.286500E+00
7.000	0.208300E+00	0.426580E+01	-0.131920E+01	0.398900E+00	0.292200E+00	0.586000E-01	-0.288000E+00
7.400	0.172200E+00	0.433790E+01	-0.115390E+01	0.390700E+00	0.280000E+00	0.218000E-01	-0.296100E+00
7.600	0.153900E+00	0.436400E+01	-0.106910E+01	0.389400E+00	0.282100E+00	0.360000E-02	-0.311700E+00
7.800	0.136000E+00	0.438390E+01	-0.983900E+00	0.389700E+00	0.290900E+00	0.413000E-01	-0.361400E+00
8.000	0.118800E+00	0.439780E+01	-0.898800E+00	0.391500E+00	0.308800E+00	0.104600E+00	-0.587400E+00
8.200	0.102400E+00	0.440610E+01	-0.814000E+00	0.394800E+00	0.340400E+00	0.221400E+00	-0.667300E+00
8.400	0.870000E-01	0.440940E+01	-0.729700E+00	0.399600E+00	0.394000E+00	0.394000E+00	-0.562000E+00
8.600	0.728000E-01	0.440810E+01	-0.645600E+00	0.406100E+00	0.482500E+00	0.490300E+00	-0.421900E+00
8.800	0.597000E-01	0.440250E+01	-0.561600E+00	0.414700E+00	0.608000E+00	0.448600E+00	-0.331700E+00
9.000	0.477000E-01	0.439310E+01	-0.477300E+00	0.426200E+00	0.726200E+00	0.325100E+00	-0.282700E+00
9.200	0.369000E-01	0.438020E+01	-0.392100E+00	0.441900E+00	0.797400E+00	0.209200E+00	-0.254800E+00
9.400	0.273000E-01	0.436430E+01	-0.305500E+00	0.464000E+00	0.835300E+00	0.132700E+00	-0.237900E+00
9.800	0.113000E-01	0.432470E+01	-0.125100E+00	0.550600E+00	0.853300E+00	0.544000E-01	-0.220000E+00
10.000	0.490000E-02	0.430160E+01	-0.299000E-01	0.644100E+00	0.814900E+00	0.336000E-01	-0.215200E+00
10.200	-0.600000E-03	0.427660E+01	0.693000E-01	0.807300E+00	0.683200E+00	0.191000E-01	-0.212000E+00
10.400	-0.520000E-02	0.425010E+01	0.172700E+00	0.991700E+00	0.405300E+00	0.850000E-02	-0.209800E+00
10.600	-0.900000E-02	0.422210E+01	0.280200E+00	0.106770E+01	0.153300E+00	0.700000E-03	-0.208400E+00
10.800	-0.121000E-01	0.419300E+01	0.390800E+00	0.107850E+01	-0.191000E-01	-0.520000E-02	-0.207500E+00
11.000	-0.145000E-01	0.416290E+01	0.503200E+00	0.106940E+01	-0.495000E-01	-0.960000E-02	-0.207100E+00
11.200	-0.163000E-01	0.413200E+01	0.615500E+00	0.105090E+01	-0.867000E-01	-0.128000E-01	-0.207100E+00
11.400	-0.176000E-01	0.410050E+01	0.725600E+00	0.102530E+01	-0.107600E+00	-0.151000E-01	-0.207500E+00
11.600	-0.184000E-01	0.406870E+01	0.831700E+00	0.994300E+00	-0.119200E+00	-0.167000E-01	-0.208300E+00
11.800	-0.189000E-01	0.403650E+01	0.932300E+00	0.959300E+00	-0.125000E+00	-0.175000E-01	-0.209500E+00
12.000	-0.190000E-01	0.400430E+01	0.102670E+01	0.921900E+00	-0.127200E+00	-0.177000E-01	-0.211000E+00
12.200	-0.188000E-01	0.397220E+01	0.111450E+01	0.883500E+00	-0.126800E+00	-0.174000E-01	-0.212800E+00
12.400	-0.183000E-01	0.394020E+01	0.119590E+01	0.845100E+00	-0.124700E+00	-0.166000E-01	-0.215000E+00
12.600	-0.177000E-01	0.390850E+01	0.127120E+01	0.807600E+00	-0.121500E+00	-0.154000E-01	-0.217400E+00
12.800	-0.169000E-01	0.387730E+01	0.134080E+01	0.771300E+00	-0.117500E+00	-0.137000E-01	-0.220100E+00
13.000	-0.160000E-01	0.384670E+01	0.140530E+01	0.736600E+00	-0.113000E+00	-0.115000E-01	-0.223000E+00
13.200	-0.150000E-01	0.381670E+01	0.146510E+01	0.703500E+00	-0.108200E+00	-0.890000E-02	-0.226100E+00
13.400	-0.139000E-01	0.378740E+01	0.152060E+01	0.672100E+00	-0.103100E+00	-0.570000E-02	-0.229200E+00
13.600	-0.128000E-01	0.375890E+01	0.157220E+01	0.642200E+00	-0.981000E-01	-0.170000E-02	-0.232400E+00
13.800	-0.117000E-01	0.373120E+01	0.162020E+01	0.614000E+00	-0.930000E-01	0.340000E-02	-0.235500E+00
14.000	-0.105000E-01	0.370440E+01	0.166500E+01	0.587100E+00	-0.879000E-01	0.103000E-01	-0.238400E+00
14.200	-0.930000E-02	0.367850E+01	0.170680E+01	0.561600E+00	-0.830000E-01	0.210000E-01	-0.240700E+00
14.400	-0.820000E-02	0.365360E+01	0.174590E+01	0.537300E+00	-0.782000E-01	0.399000E-01	-0.241300E+00
14.600	-0.710000E-02	0.362960E+01	0.178230E+01	0.514200E+00	-0.735000E-01	0.825000E-01	-0.233100E+00
14.800	-0.600000E-02	0.360660E+01	0.181640E+01	0.492200E+00	-0.689000E-01	0.176500E+00	-0.176900E+00
15.000	-0.490000E-02	0.358450E+01	0.184830E+01	0.471100E+00	-0.645000E-01	0.232800E+00	-0.972000E-01
15.200	-0.390000E-02	0.356330E+01	0.187820E+01	0.451100E+00	-0.603000E-01	0.246600E+00	-0.625000E-01
15.400	-0.290000E-02	0.354300E+01	0.190620E+01	0.432000E+00	-0.562000E-01	0.252200E+00	-0.463000E-01
15.600	-0.200000E-02	0.352350E+01	0.193240E+01	0.413700E+00	-0.522000E-01	0.255500E+00	-0.371000E-01
15.800	-0.110000E-02	0.350500E+01	0.195700E+01	0.396200E+00	-0.484000E-01	0.257800E+00	-0.310000E-01
16.200	0.500000E-03	0.347030E+01	0.200170E+01	0.363600E+00	-0.413000E-01	0.261100E+00	-0.233000E-01
16.400	0.120000E-02	0.345400E+01	0.202210E+01	0.348400E+00	-0.379000E-01	0.262200E+00	-0.207000E-01
16.600	0.190000E-02	0.343850E+01	0.204130E+01	0.333800E+00	-0.348000E-01	0.263100E+00	-0.186000E-01
16.800	0.260000E-02	0.342370E+01	0.205930E+01	0.320000E+00	-0.317000E-01	0.263800E+00	-0.168000E-01
17.000	0.320000E-02	0.340960E+01	0.207630E+01	0.306700E+00	-0.289000E-01	0.264300E+00	-0.153000E-01
17.200	0.370000E-02	0.339600E+01	0.209240E+01	0.294100E+00	-0.261000E-01	0.264700E+00	-0.140000E-01
17.400	0.430000E-02	0.338310E+01	0.210750E+01	0.282100E+00	-0.236000E-01	0.264900E+00	-0.129000E-01
17.600	0.470000E-02	0.337070E+01	0.212180E+01	0.270600E+00	-0.211000E-01	0.265000E+00	-0.119000E-01
17.800	0.520000E-02	0.335880E+01	0.213540E+01	0.259600E+00	-0.188000E-01	0.265000E+00	-0.111000E-01
18.000	0.560000E-02	0.334750E+01	0.214820E+01	0.249200E+00	-0.167000E-01	0.264800E+00	-0.103000E-01
18.600	0.670000E-02	0.331610E+01	0.218290E+01	0.220700E+00	-0.111000E-01	0.264000E+00	-0.860000E-02
19.000	0.720000E-02	0.329730E+01	0.220330E+01	0.203800E+00	-0.800000E-02	0.263100E+00	-0.760000E-02
19.200	0.740000E-02	0.328850E+01	0.221270E+01	0.196000E+00	-0.660000E-02	0.262600E+00	-0.720000E-02
19.400	0.770000E-02	0.327990E+01	0.222180E+01	0.188500E+00	-0.540000E-02	0.262100E+00	-0.680000E-02
19.800	0.800000E-02	0.326390E+01	0.223860E+01	0.174600E+00	-0.320000E-02	0.261000E+00	-0.600000E-02
20.000	0.820000E-02	0.325630E+01	0.224650E+01	0.168200E+00	-0.230000E-02	0.260500E+00	-0.560000E-02
20.400	0.840000E-02	0.324200E+01	0.226120E+01	0.156100E+00	-0.700000E-03	0.259300E+00	-0.470000E-02
20.600	0.850000E-02	0.323520E+01	0.226810E+01	0.150500E+00	0.000000E+00	0.258700E+00	-0.420000E-02
21.600	0.880000E-02	0.320480E+01	0.229870E+01	0.126000E+00	0.240000E-02	0.256000E+00	-0.160000E-02
22.400	0.890000E-02	0.318400E+01	0.231920E+01	0.110100E+00	0.340000E-02	0.254000E+00	-0.600000E-03
22.600	0.890000E-02	0.317930E+01	0.232390E+01	0.106500E+00	0.360000E-02	0.253600E+00	0.110000E-02
22.800	0.890000E-02	0.317470E+01	0.232840E+01	0.103100E+00	0.370000E-02	0.253200E+00	0.150000E-02
23.000	0.890000E-02	0.317020E+01	0.233270E+01	0.998000E-01	0.380000E-02	0.252800E+00	0.200000E-02

1								
2								
3	23.200	0.880000E-02	0.316590E+01	0.233690E+01	0.967000E-01	0.390000E-02	0.252400E+00	0.240000E-02
4	23.800	0.870000E-02	0.315380E+01	0.234870E+01	0.880000E-01	0.410000E-02	0.251500E+00	0.350000E-02
5	24.000	0.870000E-02	0.315000E+01	0.235230E+01	0.853000E-01	0.410000E-02	0.251200E+00	0.370000E-02
6	24.200	0.870000E-02	0.314630E+01	0.235580E+01	0.828000E-01	0.410000E-02	0.250900E+00	0.400000E-02
7	24.400	0.860000E-02	0.314270E+01	0.235930E+01	0.803000E-01	0.410000E-02	0.250700E+00	0.430000E-02
8	24.600	0.860000E-02	0.313930E+01	0.236260E+01	0.779000E-01	0.410000E-02	0.250500E+00	0.450000E-02
9	24.800	0.850000E-02	0.313590E+01	0.236580E+01	0.756000E-01	0.400000E-02	0.250300E+00	0.470000E-02
10	25.000	0.850000E-02	0.313270E+01	0.236890E+01	0.734000E-01	0.400000E-02	0.250100E+00	0.490000E-02
11	25.200	0.840000E-02	0.312950E+01	0.237190E+01	0.712000E-01	0.400000E-02	0.250000E+00	0.500000E-02
12	25.400	0.830000E-02	0.312650E+01	0.237480E+01	0.692000E-01	0.390000E-02	0.249800E+00	0.510000E-02
13	25.600	0.830000E-02	0.312350E+01	0.237760E+01	0.672000E-01	0.390000E-02	0.249700E+00	0.520000E-02
14	25.800	0.820000E-02	0.312060E+01	0.238030E+01	0.652000E-01	0.380000E-02	0.249600E+00	0.530000E-02
15	26.000	0.820000E-02	0.311780E+01	0.238300E+01	0.634000E-01	0.380000E-02	0.249500E+00	0.530000E-02
16	26.200	0.810000E-02	0.311510E+01	0.238560E+01	0.616000E-01	0.370000E-02	0.249400E+00	0.540000E-02
17	26.400	0.800000E-02	0.311240E+01	0.238810E+01	0.598000E-01	0.360000E-02	0.249300E+00	0.550000E-02
18	26.600	0.800000E-02	0.310990E+01	0.239050E+01	0.581000E-01	0.360000E-02	0.249200E+00	0.550000E-02
19	26.800	0.790000E-02	0.310740E+01	0.239280E+01	0.564000E-01	0.350000E-02	0.249200E+00	0.550000E-02
20	27.000	0.790000E-02	0.310490E+01	0.239510E+01	0.548000E-01	0.350000E-02	0.249100E+00	0.550000E-02
21	27.200	0.780000E-02	0.310260E+01	0.239740E+01	0.533000E-01	0.340000E-02	0.249100E+00	0.550000E-02
22	27.400	0.770000E-02	0.310030E+01	0.239950E+01	0.518000E-01	0.330000E-02	0.249000E+00	0.550000E-02
23	27.600	0.770000E-02	0.309800E+01	0.240160E+01	0.503000E-01	0.330000E-02	0.249000E+00	0.550000E-02
24	27.800	0.760000E-02	0.309580E+01	0.240360E+01	0.489000E-01	0.320000E-02	0.249000E+00	0.540000E-02
25	28.000	0.750000E-02	0.309370E+01	0.240560E+01	0.475000E-01	0.320000E-02	0.249000E+00	0.540000E-02
26	28.200	0.750000E-02	0.309160E+01	0.240750E+01	0.462000E-01	0.310000E-02	0.249000E+00	0.540000E-02
27	28.400	0.740000E-02	0.308960E+01	0.240940E+01	0.449000E-01	0.300000E-02	0.249000E+00	0.530000E-02
28	28.600	0.730000E-02	0.308770E+01	0.241120E+01	0.436000E-01	0.300000E-02	0.249000E+00	0.530000E-02
29	28.800	0.730000E-02	0.308580E+01	0.241300E+01	0.424000E-01	0.290000E-02	0.249000E+00	0.530000E-02
30	29.000	0.720000E-02	0.308390E+01	0.241470E+01	0.412000E-01	0.290000E-02	0.249000E+00	0.530000E-02
31	29.200	0.710000E-02	0.308210E+01	0.241640E+01	0.400000E-01	0.280000E-02	0.249100E+00	0.530000E-02
32	29.400	0.710000E-02	0.308030E+01	0.241800E+01	0.389000E-01	0.280000E-02	0.249100E+00	0.520000E-02
33	29.600	0.700000E-02	0.307860E+01	0.241960E+01	0.378000E-01	0.270000E-02	0.249100E+00	0.520000E-02
34	29.800	0.690000E-02	0.307690E+01	0.242110E+01	0.367000E-01	0.270000E-02	0.249100E+00	0.520000E-02
35	30.000	0.690000E-02	0.307460E+01	0.242220E+01	0.357000E-01	0.260000E-02	0.249100E+00	0.520000E-02
36	30.400	0.680000E-02	0.307110E+01	0.242560E+01	0.337000E-01	0.250000E-02	0.249200E+00	0.520000E-02

Table 6: $(2)^3\Sigma^+ - (2-7)^3\Sigma^+$ transitions

R	2-2	2-3	2-4	2-5	2-6	2-7
4.400	0.193630E+01	0.934800E+00	0.365730E+01	0.240800E+00	-0.872800E+00	-0.203980E+01
4.600	0.184180E+01	0.142280E+01	0.405400E+01	0.163800E+00	-0.655500E+00	-0.211620E+01
4.800	0.124430E+01	0.218810E+01	0.461750E+01	0.150000E+00	-0.329200E+00	-0.203810E+01
5.000	0.290000E-02	0.271050E+01	0.500820E+01	0.659300E+00	0.455000E-01	-0.172310E+01
5.200	-0.103000E+01	0.265640E+01	0.499200E+01	0.106200E+01	0.300900E+00	-0.138270E+01
5.400	-0.155490E+01	0.248720E+01	0.483280E+01	0.128160E+01	0.443500E+00	-0.116620E+01
5.600	-0.180010E+01	0.238570E+01	0.467860E+01	0.139120E+01	0.539400E+00	-0.103660E+01
5.800	-0.191190E+01	0.234990E+01	0.455630E+01	0.144070E+01	0.618600E+00	-0.949700E+00
6.000	-0.195490E+01	0.235750E+01	0.446430E+01	0.145570E+01	0.689500E+00	-0.882500E+00
6.200	-0.195920E+01	0.239240E+01	0.439670E+01	0.145030E+01	0.753100E+00	-0.824500E+00
6.800	-0.186460E+01	0.257750E+01	0.428730E+01	0.138220E+01	0.883200E+00	-0.671400E+00
7.000	-0.181690E+01	0.265180E+01	0.426800E+01	0.135660E+01	0.899800E+00	-0.620800E+00
7.400	-0.171410E+01	0.280710E+01	0.423650E+01	0.132190E+01	0.872800E+00	-0.491400E+00
7.600	-0.166220E+01	0.288590E+01	0.421920E+01	0.132160E+01	0.812000E+00	-0.372900E+00
7.800	-0.161140E+01	0.296430E+01	0.419810E+01	0.134090E+01	0.691800E+00	-0.878000E-01
8.000	-0.156230E+01	0.304160E+01	0.417080E+01	0.139090E+01	0.456600E+00	0.127700E+01
8.200	-0.151550E+01	0.311700E+01	0.413540E+01	0.148930E+01	-0.196000E-01	0.260370E+01
8.400	-0.147130E+01	0.318960E+01	0.408980E+01	0.166760E+01	-0.802400E+00	0.258600E+01
8.600	-0.142980E+01	0.325800E+01	0.403150E+01	0.197240E+01	-0.134660E+01	0.225370E+01
8.800	-0.139110E+01	0.332100E+01	0.395750E+01	0.241580E+01	-0.130070E+01	0.198030E+01
9.000	-0.135510E+01	0.337670E+01	0.386370E+01	0.285480E+01	-0.889100E+00	0.181100E+01
9.200	-0.132170E+01	0.342280E+01	0.374350E+01	0.316940E+01	-0.476700E+00	0.170160E+01
9.400	-0.129080E+01	0.345700E+01	0.358500E+01	0.342130E+01	-0.194700E+00	0.162490E+01
9.800	-0.123550E+01	0.347720E+01	0.303200E+01	0.399830E+01	-0.121100E+00	0.152100E+01
10.000	-0.121060E+01	0.345680E+01	0.245450E+01	0.441630E+01	-0.220000E+00	0.148280E+01
10.200	-0.118720E+01	0.341160E+01	0.131760E+01	0.492240E+01	-0.300900E+00	0.144990E+01
10.400	-0.116500E+01	0.333900E+01	0.509500E+00	0.512390E+01	-0.370700E+00	0.142080E+01
10.600	-0.114380E+01	0.323760E+01	0.198210E+01	0.482170E+01	-0.433400E+00	0.139430E+01
10.800	-0.112310E+01	0.310790E+01	0.280220E+01	0.448200E+01	-0.491300E+00	0.136960E+01
11.000	-0.110280E+01	0.295270E+01	0.330410E+01	0.422520E+01	-0.545700E+00	0.134600E+01
11.200	-0.108260E+01	0.277750E+01	0.365800E+01	0.402920E+01	-0.597000E+00	0.132290E+01
11.400	-0.106230E+01	0.258930E+01	0.392880E+01	0.387170E+01	-0.645800E+00	0.129990E+01
11.600	-0.104170E+01	0.239620E+01	0.414330E+01	0.373970E+01	-0.691900E+00	0.127650E+01
11.800	-0.102070E+01	0.220540E+01	0.431480E+01	0.362570E+01	-0.735400E+00	0.125250E+01
12.000	-0.999100E+00	0.202280E+01	0.445120E+01	0.352510E+01	-0.776200E+00	0.122780E+01
12.200	-0.976900E+00	0.185230E+01	0.455870E+01	0.343510E+01	-0.814000E+00	0.120220E+01
12.400	-0.954100E+00	0.169600E+01	0.464240E+01	0.335390E+01	-0.848500E+00	0.117580E+01
12.600	-0.930600E+00	0.155460E+01	0.470660E+01	0.328000E+01	-0.879700E+00	0.114880E+01
12.800	-0.906500E+00	0.142750E+01	0.475490E+01	0.321240E+01	-0.907100E+00	0.112140E+01
13.000	-0.881800E+00	0.131390E+01	0.479040E+01	0.315040E+01	-0.930600E+00	0.109400E+01
13.200	-0.856700E+00	0.121250E+01	0.481540E+01	0.309340E+01	-0.949900E+00	0.106690E+01
13.400	-0.831100E+00	0.112200E+01	0.483200E+01	0.304090E+01	-0.964400E+00	0.104100E+01
13.600	-0.805200E+00	0.104110E+01	0.484180E+01	0.299250E+01	-0.973500E+00	0.101730E+01
13.800	-0.779000E+00	0.968400E+00	0.484590E+01	0.294790E+01	-0.975900E+00	0.997400E+00
14.000	-0.752700E+00	0.903000E+00	0.484550E+01	0.290690E+01	-0.968800E+00	0.984500E+00
14.200	-0.726400E+00	0.844000E+00	0.484130E+01	0.286930E+01	-0.945800E+00	0.985300E+00
14.400	-0.700100E+00	0.790400E+00	0.483390E+01	0.283500E+01	-0.887800E+00	0.101590E+01
14.600	-0.674000E+00	0.741700E+00	0.482380E+01	0.280380E+01	-0.720000E+00	0.112010E+01
14.800	-0.648200E+00	0.697100E+00	0.481150E+01	0.277550E+01	-0.204100E+00	0.129720E+01
15.000	-0.622600E+00	0.656300E+00	0.479730E+01	0.275020E+01	-0.266200E+00	0.126660E+01
15.200	-0.597500E+00	0.618800E+00	0.478130E+01	0.272760E+01	-0.410000E+00	0.120700E+01
15.400	-0.572800E+00	0.584200E+00	0.476400E+01	0.270780E+01	-0.450900E+00	0.117110E+01
15.600	-0.548700E+00	0.552200E+00	0.474530E+01	0.269060E+01	-0.457200E+00	0.114700E+01
15.800	-0.525100E+00	0.522700E+00	0.472550E+01	0.267590E+01	-0.449100E+00	0.112890E+01
16.200	-0.479800E+00	0.469700E+00	0.468320E+01	0.265390E+01	-0.415000E+00	0.110040E+01
16.400	-0.458100E+00	0.445900E+00	0.466080E+01	0.264630E+01	-0.394200E+00	0.108790E+01
16.600	-0.437100E+00	0.423700E+00	0.463780E+01	0.264090E+01	-0.372400E+00	0.107600E+01
16.800	-0.416800E+00	0.403100E+00	0.461420E+01	0.263750E+01	-0.350500E+00	0.106490E+01
17.000	-0.397300E+00	0.383700E+00	0.459010E+01	0.263600E+01	-0.328600E+00	0.105380E+01
17.200	-0.378400E+00	0.365700E+00	0.456570E+01	0.263640E+01	-0.307000E+00	0.104250E+01
17.400	-0.360300E+00	0.348700E+00	0.454090E+01	0.263840E+01	-0.286000E+00	0.103160E+01
17.600	-0.342900E+00	0.332800E+00	0.451580E+01	0.264190E+01	-0.265700E+00	0.102070E+01
17.800	-0.326200E+00	0.317900E+00	0.449060E+01	0.264690E+01	-0.246200E+00	0.100990E+01
18.000	-0.310200E+00	0.303900E+00	0.446520E+01	0.265310E+01	-0.227500E+00	0.999000E+00
18.600	-0.266400E+00	0.266600E+00	0.438920E+01	0.267820E+01	-0.176800E+00	0.964900E+00
19.000	-0.240400E+00	0.245100E+00	0.433920E+01	0.269880E+01	-0.147500E+00	0.940200E+00
19.200	-0.228300E+00	0.235300E+00	0.431460E+01	0.271000E+01	-0.134200E+00	0.927000E+00
19.400	-0.216800E+00	0.226000E+00	0.429030E+01	0.272150E+01	-0.121700E+00	0.913200E+00
19.800	-0.195600E+00	0.208700E+00	0.424290E+01	0.274540E+01	-0.992000E-01	0.884000E+00
20.000	-0.185700E+00	0.200800E+00	0.421990E+01	0.275750E+01	-0.892000E-01	0.868500E+00
20.400	-0.167600E+00	0.186100E+00	0.417540E+01	0.278180E+01	-0.712000E-01	0.836900E+00
20.600	-0.159200E+00	0.179200E+00	0.415400E+01	0.279380E+01	-0.633000E-01	0.821000E+00
21.600	-0.123700E+00	0.149700E+00	0.405630E+01	0.285050E+01	-0.324000E-01	0.746200E+00
22.400	-0.101800E+00	0.130500E+00	0.398970E+01	0.288980E+01	-0.164000E-01	0.697200E+00
22.600	-0.971000E-01	0.126200E+00	0.397470E+01	0.289860E+01	-0.134000E-01	0.686400E+00
22.800	-0.926000E-01	0.122100E+00	0.396030E+01	0.290710E+01	-0.107000E-01	0.676200E+00
23.000	-0.884000E-01	0.118100E+00	0.394650E+01	0.291520E+01	-0.820000E-02	0.666500E+00

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3	23.200	-0.844000E-01	0.114400E+00	0.393330E+01	0.292290E+01	-0.610000E-02	0.657500E+00
4	23.800	-0.737000E-01	0.104000E+00	0.389720E+01	0.294360E+01	-0.100000E-02	0.633800E+00
5	24.200	-0.675000E-01	0.977000E-01	0.387590E+01	0.295560E+01	0.110000E-02	0.622400E+00
6	24.400	-0.646000E-01	0.947000E-01	0.386590E+01	0.296100E+01	0.210000E-02	0.616600E+00
7	24.600	-0.619000E-01	0.919000E-01	0.385650E+01	0.296620E+01	0.290000E-02	0.611200E+00
8	24.800	-0.594000E-01	0.892000E-01	0.384750E+01	0.297100E+01	0.360000E-02	0.606000E+00
9	25.000	-0.570000E-01	0.866000E-01	0.383890E+01	0.297560E+01	0.420000E-02	0.601400E+00
10	25.200	-0.547000E-01	0.840000E-01	0.383080E+01	0.297980E+01	0.460000E-02	0.597300E+00
11	25.400	-0.525000E-01	0.816000E-01	0.382300E+01	0.298380E+01	0.500000E-02	0.593600E+00
12	25.600	-0.504000E-01	0.793000E-01	0.381560E+01	0.298750E+01	0.530000E-02	0.590100E+00
13	25.800	-0.485000E-01	0.770000E-01	0.380860E+01	0.299100E+01	0.560000E-02	0.587000E+00
14	26.000	-0.466000E-01	0.748000E-01	0.380200E+01	0.299420E+01	0.570000E-02	0.584300E+00
15	26.200	-0.449000E-01	0.727000E-01	0.379560E+01	0.299730E+01	0.580000E-02	0.581800E+00
16	26.400	-0.432000E-01	0.707000E-01	0.378960E+01	0.300010E+01	0.590000E-02	0.579600E+00
17	26.600	-0.416000E-01	0.687000E-01	0.378390E+01	0.300270E+01	0.580000E-02	0.578000E+00
18	26.800	-0.401000E-01	0.669000E-01	0.377840E+01	0.300510E+01	0.580000E-02	0.576300E+00
19	27.000	-0.386000E-01	0.650000E-01	0.377320E+01	0.300730E+01	0.570000E-02	0.575000E+00
20	27.200	-0.373000E-01	0.633000E-01	0.376830E+01	0.300940E+01	0.560000E-02	0.574000E+00
21	27.400	-0.360000E-01	0.616000E-01	0.376360E+01	0.301130E+01	0.550000E-02	0.573100E+00
22	27.600	-0.347000E-01	0.599000E-01	0.375910E+01	0.301310E+01	0.530000E-02	0.572400E+00
23	27.800	-0.335000E-01	0.583000E-01	0.375480E+01	0.301480E+01	0.520000E-02	0.571800E+00
24	28.000	-0.324000E-01	0.568000E-01	0.375070E+01	0.301630E+01	0.500000E-02	0.571500E+00
25	28.200	-0.313000E-01	0.553000E-01	0.374680E+01	0.301770E+01	0.480000E-02	0.571400E+00
26	28.400	-0.303000E-01	0.539000E-01	0.374310E+01	0.301890E+01	0.460000E-02	0.571400E+00
27	28.600	-0.293000E-01	0.525000E-01	0.373960E+01	0.302010E+01	0.450000E-02	0.571400E+00
28	28.800	-0.284000E-01	0.512000E-01	0.373620E+01	0.302120E+01	0.430000E-02	0.571500E+00
29	29.000	-0.275000E-01	0.498000E-01	0.373290E+01	0.302210E+01	0.400000E-02	0.572500E+00
30	29.200	-0.266000E-01	0.486000E-01	0.372980E+01	0.302300E+01	0.380000E-02	0.573200E+00
31	29.400	-0.258000E-01	0.474000E-01	0.372680E+01	0.302380E+01	0.360000E-02	0.573800E+00
32	29.600	-0.250000E-01	0.462000E-01	0.372390E+01	0.302460E+01	0.350000E-02	0.574300E+00
33	29.800	-0.243000E-01	0.450000E-01	0.372120E+01	0.302520E+01	0.330000E-02	0.575400E+00
34	30.000	-0.235000E-01	0.439000E-01	0.371850E+01	0.302580E+01	0.310000E-02	0.576100E+00
35	30.400	-0.222000E-01	0.418000E-01	0.371270E+01	0.302610E+01	0.280000E-02	0.577900E+00
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Table 7: $(3)^3\Sigma^+ - (3-7)^3\Sigma^+$ transitions

R	3-3	3-4	3-5	3-6	3-7
4.400	-0.236390E+01	-0.411070E+01	0.123740E+01	-0.140150E+01	0.680700E+00
4.600	-0.224090E+01	-0.353860E+01	0.158360E+01	-0.131140E+01	0.895000E+00
4.800	-0.160960E+01	-0.249070E+01	0.184490E+01	-0.123570E+01	0.133200E+01
5.000	-0.331200E+00	-0.103190E+01	0.194370E+01	-0.110170E+01	0.188920E+01
5.200	0.738900E+00	-0.110700E+00	0.194370E+01	-0.892900E+00	0.227150E+01
5.400	0.129740E+01	-0.753400E+00	0.197390E+01	-0.673300E+00	0.247620E+01
5.600	0.157030E+01	-0.110820E+01	0.205230E+01	-0.463500E+00	0.258700E+01
5.800	0.170230E+01	-0.131430E+01	0.216450E+01	-0.269100E+00	0.264220E+01
6.000	0.175730E+01	-0.143740E+01	0.229790E+01	-0.974000E-01	0.265820E+01
6.200	0.176560E+01	-0.150990E+01	0.244390E+01	-0.427000E-01	0.264510E+01
6.800	0.163950E+01	-0.156530E+01	0.290570E+01	-0.217100E+00	0.250950E+01
7.000	0.156920E+01	-0.155360E+01	0.305610E+01	-0.187900E+00	0.245010E+01
7.400	0.140760E+01	-0.150910E+01	0.333410E+01	-0.340000E-02	0.232240E+01
7.600	0.132110E+01	-0.148120E+01	0.345540E+01	0.151100E+00	0.224680E+01
7.800	0.123340E+01	-0.145230E+01	0.355860E+01	0.350700E+00	0.212750E+01
8.000	0.114600E+01	-0.142360E+01	0.363700E+01	0.607100E+00	0.148010E+01
8.200	0.106030E+01	-0.139650E+01	0.367660E+01	0.946000E+00	0.251000E+00
8.400	0.977600E+00	-0.137170E+01	0.364740E+01	0.138350E+01	0.265800E+00
8.600	0.899000E+00	-0.134990E+01	0.347530E+01	0.191830E+01	0.623600E+00
8.800	0.825400E+00	-0.133140E+01	0.302860E+01	0.262010E+01	0.975000E+00
9.000	0.758000E+00	-0.131670E+01	0.233060E+01	0.327560E+01	0.128220E+01
9.200	0.697600E+00	-0.130600E+01	0.170060E+01	0.364150E+01	0.156120E+01
9.400	0.645200E+00	-0.130010E+01	0.126740E+01	0.379600E+01	0.181950E+01
9.800	0.567700E+00	-0.130870E+01	0.729200E+00	0.385370E+01	0.227760E+01
10.000	0.543700E+00	-0.132750E+01	0.481200E+00	0.382910E+01	0.247390E+01
10.200	0.530200E+00	-0.133810E+01	0.133800E+00	0.378600E+01	0.264480E+01
10.400	0.526800E+00	-0.124590E+01	0.319300E+00	0.372950E+01	0.278740E+01
10.600	0.532700E+00	-0.106580E+01	0.614300E+00	0.366260E+01	0.289910E+01
10.800	0.546700E+00	-0.921400E+00	0.726200E+00	0.358780E+01	0.297800E+01
11.000	0.566400E+00	-0.817600E+00	0.755800E+00	0.350710E+01	0.302350E+01
11.200	0.589500E+00	-0.736300E+00	0.749100E+00	0.342270E+01	0.303670E+01
11.400	0.613200E+00	-0.666800E+00	0.724500E+00	0.333730E+01	0.302080E+01
11.600	0.635300E+00	-0.604100E+00	0.690800E+00	0.325310E+01	0.298020E+01
11.800	0.654100E+00	-0.545800E+00	0.653000E+00	0.317240E+01	0.292030E+01
12.000	0.668600E+00	-0.491000E+00	0.614100E+00	0.309660E+01	0.284660E+01
12.200	0.678600E+00	-0.439400E+00	0.576000E+00	0.302630E+01	0.276400E+01
12.400	0.684000E+00	-0.390800E+00	0.539600E+00	0.296160E+01	0.267620E+01
12.600	0.685200E+00	-0.345100E+00	0.505700E+00	0.290150E+01	0.258660E+01
12.800	0.682800E+00	-0.302300E+00	0.474300E+00	0.284510E+01	0.249730E+01
13.000	0.677000E+00	-0.262000E+00	0.445600E+00	0.279080E+01	0.241020E+01
13.200	0.668600E+00	-0.224200E+00	0.419400E+00	0.273710E+01	0.232690E+01
13.400	0.657700E+00	-0.188600E+00	0.395400E+00	0.268190E+01	0.224930E+01
13.600	0.644900E+00	-0.155200E+00	0.373700E+00	0.262290E+01	0.217970E+01
13.800	0.630400E+00	-0.123900E+00	0.353800E+00	0.255630E+01	0.212190E+01
14.000	0.614600E+00	-0.945000E-01	0.335800E+00	0.247570E+01	0.208330E+01
14.200	0.597800E+00	-0.669000E-01	0.319300E+00	0.236680E+01	0.207890E+01
14.400	0.580100E+00	-0.412000E-01	0.304400E+00	0.218880E+01	0.214640E+01
14.600	0.561800E+00	-0.173000E-01	0.290800E+00	0.178220E+01	0.239070E+01
14.800	0.543000E+00	0.500000E-02	0.278500E+00	0.626800E+00	0.283040E+01
15.000	0.524000E+00	0.255000E-01	0.267300E+00	0.427400E+00	0.278390E+01
15.200	0.504900E+00	0.445000E-01	0.257100E+00	0.755300E+00	0.262870E+01
15.400	0.485800E+00	0.618000E-01	0.247900E+00	0.852600E+00	0.251370E+01
15.600	0.466800E+00	0.777000E-01	0.239500E+00	0.873300E+00	0.242170E+01
15.800	0.448100E+00	0.920000E-01	0.232000E+00	0.862300E+00	0.234180E+01
16.200	0.411700E+00	0.116500E+00	0.218900E+00	0.803000E+00	0.219830E+01
16.400	0.394100E+00	0.126800E+00	0.213400E+00	0.766300E+00	0.213060E+01
16.600	0.377000E+00	0.135900E+00	0.208300E+00	0.728400E+00	0.206430E+01
16.800	0.360400E+00	0.143800E+00	0.203700E+00	0.690300E+00	0.199900E+01
17.000	0.344400E+00	0.150700E+00	0.199500E+00	0.653000E+00	0.193420E+01
17.200	0.329000E+00	0.156500E+00	0.195700E+00	0.616800E+00	0.186940E+01
17.400	0.314100E+00	0.161400E+00	0.192200E+00	0.582100E+00	0.180490E+01
17.600	0.299900E+00	0.165500E+00	0.189000E+00	0.549000E+00	0.174030E+01
17.800	0.286200E+00	0.168800E+00	0.186000E+00	0.517500E+00	0.167530E+01
18.000	0.273100E+00	0.171300E+00	0.183200E+00	0.487600E+00	0.160990E+01
18.600	0.237400E+00	0.175200E+00	0.175700E+00	0.408000E+00	0.140940E+01
19.000	0.216300E+00	0.175300E+00	0.171200E+00	0.362400E+00	0.127130E+01
19.200	0.206600E+00	0.174700E+00	0.169100E+00	0.341800E+00	0.120110E+01
19.400	0.197300E+00	0.173900E+00	0.166900E+00	0.322400E+00	0.113050E+01
19.800	0.180200E+00	0.171300E+00	0.162700E+00	0.287100E+00	0.989600E+00
20.000	0.172300E+00	0.169600E+00	0.160600E+00	0.271200E+00	0.920300E+00
20.400	0.157600E+00	0.165800E+00	0.156500E+00	0.242200E+00	0.786200E+00
20.600	0.150900E+00	0.163700E+00	0.154400E+00	0.229000E+00	0.722800E+00
21.600	0.122100E+00	0.151600E+00	0.143800E+00	0.174700E+00	0.458700E+00
22.400	0.103900E+00	0.141300E+00	0.135100E+00	0.142200E+00	0.313800E+00
22.600	0.100000E+00	0.138700E+00	0.133000E+00	0.135300E+00	0.285800E+00
22.800	0.962000E-01	0.136200E+00	0.130800E+00	0.128800E+00	0.260300E+00
23.000	0.926000E-01	0.133600E+00	0.128600E+00	0.122700E+00	0.237300E+00

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3	23.200	0.892000E-01	0.131100E+00	0.126500E+00	0.117000E+00	0.216700E+00
4	23.800	0.799000E-01	0.123600E+00	0.120100E+00	0.101800E+00	0.166700E+00
5	24.000	0.772000E-01	0.121200E+00	0.118000E+00	0.974000E-01	0.153600E+00
6	24.200	0.745000E-01	0.118800E+00	0.115900E+00	0.932000E-01	0.141400E+00
7	24.400	0.720000E-01	0.116500E+00	0.113800E+00	0.892000E-01	0.130200E+00
8	24.600	0.696000E-01	0.114200E+00	0.111800E+00	0.854000E-01	0.120200E+00
9	24.800	0.673000E-01	0.112000E+00	0.109800E+00	0.818000E-01	0.110700E+00
10	25.000	0.651000E-01	0.109800E+00	0.107800E+00	0.784000E-01	0.102500E+00
11	25.200	0.630000E-01	0.107600E+00	0.105800E+00	0.752000E-01	0.950000E-01
12	25.400	0.610000E-01	0.105500E+00	0.103900E+00	0.723000E-01	0.882000E-01
13	25.600	0.591000E-01	0.103500E+00	0.102000E+00	0.694000E-01	0.818000E-01
14	25.800	0.572000E-01	0.101400E+00	0.100100E+00	0.667000E-01	0.761000E-01
15	26.000	0.555000E-01	0.994000E-01	0.982000E-01	0.642000E-01	0.709000E-01
16	26.200	0.538000E-01	0.975000E-01	0.964000E-01	0.618000E-01	0.663000E-01
17	26.400	0.522000E-01	0.956000E-01	0.946000E-01	0.595000E-01	0.620000E-01
18	26.600	0.507000E-01	0.937000E-01	0.928000E-01	0.573000E-01	0.582000E-01
19	26.800	0.492000E-01	0.919000E-01	0.911000E-01	0.553000E-01	0.546000E-01
20	27.000	0.478000E-01	0.902000E-01	0.894000E-01	0.534000E-01	0.513000E-01
21	27.200	0.465000E-01	0.884000E-01	0.877000E-01	0.515000E-01	0.485000E-01
22	27.400	0.452000E-01	0.867000E-01	0.861000E-01	0.498000E-01	0.457000E-01
23	27.600	0.440000E-01	0.851000E-01	0.845000E-01	0.481000E-01	0.432000E-01
24	27.800	0.428000E-01	0.834000E-01	0.829000E-01	0.465000E-01	0.407000E-01
25	28.000	0.416000E-01	0.818000E-01	0.813000E-01	0.450000E-01	0.385000E-01
26	28.200	0.405000E-01	0.803000E-01	0.798000E-01	0.436000E-01	0.365000E-01
27	28.400	0.395000E-01	0.788000E-01	0.783000E-01	0.422000E-01	0.346000E-01
28	28.600	0.385000E-01	0.773000E-01	0.769000E-01	0.409000E-01	0.329000E-01
29	28.800	0.375000E-01	0.758000E-01	0.754000E-01	0.396000E-01	0.311000E-01
30	29.000	0.366000E-01	0.744000E-01	0.740000E-01	0.384000E-01	0.297000E-01
31	29.200	0.357000E-01	0.730000E-01	0.727000E-01	0.373000E-01	0.283000E-01
32	29.400	0.348000E-01	0.717000E-01	0.713000E-01	0.362000E-01	0.271000E-01
33	29.600	0.340000E-01	0.704000E-01	0.700000E-01	0.351000E-01	0.259000E-01
34	29.800	0.332000E-01	0.691000E-01	0.687000E-01	0.341000E-01	0.248000E-01
35	30.000	0.324000E-01	0.678000E-01	0.675000E-01	0.331000E-01	0.236000E-01
36	30.400	0.309000E-01	0.653000E-01	0.650000E-01	0.313000E-01	0.219000E-01
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Table 8: $(4)^3\Sigma^+ - (4-7)^3\Sigma^+$ transitions

R	4-4	4-5	4-6	4-7
4.400	0.701100E+00	-0.263880E+01	0.849020E+01	-0.138690E+01
4.600	0.922400E+00	-0.125650E+01	0.873140E+01	-0.131530E+01
4.800	0.120370E+01	-0.206700E+00	0.875070E+01	-0.117190E+01
5.000	0.151260E+01	-0.542800E+00	0.867170E+01	-0.957500E+00
5.200	0.182130E+01	-0.107020E+01	0.856110E+01	-0.678500E+00
5.400	0.211140E+01	-0.144400E+01	0.844520E+01	-0.346800E+00
5.600	0.237300E+01	-0.171250E+01	0.833000E+01	-0.203000E-01
5.800	0.260230E+01	-0.190590E+01	0.821430E+01	0.400500E+00
6.000	0.279910E+01	-0.204200E+01	0.809760E+01	0.769000E+00
6.200	0.296490E+01	-0.213070E+01	0.798220E+01	0.110370E+01
6.800	0.330180E+01	-0.215190E+01	0.768910E+01	0.179110E+01
7.000	0.336900E+01	-0.208160E+01	0.761790E+01	0.191430E+01
7.400	0.344890E+01	-0.182380E+01	0.750170E+01	0.205520E+01
7.600	0.346510E+01	-0.163540E+01	0.743670E+01	0.211470E+01
7.800	0.346670E+01	-0.140510E+01	0.733640E+01	0.226700E+01
8.000	0.345510E+01	-0.113080E+01	0.712590E+01	0.297340E+01
8.200	0.343060E+01	-0.806400E+00	0.656680E+01	0.387980E+01
8.400	0.339360E+01	-0.420300E+00	0.516720E+01	0.548380E+01
8.600	0.334410E+01	0.399000E-01	0.343020E+01	0.661290E+01
8.800	0.328160E+01	0.537000E+00	0.223900E+01	0.698760E+01
9.000	0.320460E+01	0.905800E+00	0.139200E+01	0.706960E+01
9.200	0.311000E+01	0.107050E+01	0.749500E+00	0.703990E+01
9.400	0.299170E+01	0.114310E+01	0.257100E+00	0.694800E+01
9.800	0.260910E+01	0.132430E+01	0.504600E+00	0.656810E+01
10.000	0.222390E+01	0.149600E+01	0.849000E+00	0.614910E+01
10.200	0.147330E+01	0.164020E+01	0.119350E+01	0.521330E+01
10.400	0.409300E+00	0.130660E+01	0.143500E+01	0.337400E+01
10.600	-0.160900E+00	0.648500E+00	0.149920E+01	0.160890E+01
10.800	-0.335100E+00	0.216700E+00	0.153310E+01	0.527700E+00
11.000	-0.408300E+00	-0.280000E-01	0.158850E+01	0.164500E+00
11.200	-0.460900E+00	-0.175300E+00	0.166150E+01	0.672700E+00
11.400	-0.509700E+00	-0.268400E+00	0.174250E+01	0.108360E+01
11.600	-0.557300E+00	-0.327100E+00	0.182380E+01	0.143420E+01
11.800	-0.603300E+00	-0.361500E+00	0.190020E+01	0.174190E+01
12.000	-0.646800E+00	-0.377600E+00	0.196860E+01	0.201600E+01
12.200	-0.687200E+00	-0.379500E+00	0.202750E+01	0.226260E+01
12.400	-0.724200E+00	-0.370100E+00	0.207650E+01	0.248660E+01
12.600	-0.758000E+00	-0.351800E+00	0.211560E+01	0.269200E+01
12.800	-0.788400E+00	-0.326700E+00	0.214500E+01	0.288230E+01
13.000	-0.815800E+00	-0.296100E+00	0.216470E+01	0.306050E+01
13.200	-0.840200E+00	-0.261600E+00	0.217380E+01	0.322930E+01
13.400	-0.861700E+00	-0.224300E+00	0.217080E+01	0.339140E+01
13.600	-0.880400E+00	-0.184900E+00	0.215220E+01	0.354940E+01
13.800	-0.896500E+00	-0.144300E+00	0.211150E+01	0.370730E+01
14.000	-0.909900E+00	-0.103100E+00	0.203500E+01	0.387090E+01
14.200	-0.920900E+00	-0.619000E-01	0.189120E+01	0.405180E+01
14.400	-0.929300E+00	-0.210000E-01	0.159190E+01	0.427430E+01
14.600	-0.935300E+00	0.192000E-01	0.819800E+00	0.456910E+01
14.800	-0.938900E+00	0.583000E-01	0.125150E+01	0.454520E+01
15.000	-0.940200E+00	0.962000E-01	0.293560E+01	0.376930E+01
15.200	-0.939300E+00	0.132600E+00	0.350320E+01	0.332840E+01
15.400	-0.936200E+00	0.167400E+00	0.375740E+01	0.311100E+01
15.600	-0.931100E+00	0.200400E+00	0.390650E+01	0.298390E+01
15.800	-0.924100E+00	0.231400E+00	0.400620E+01	0.289750E+01
16.200	-0.904500E+00	0.287400E+00	0.412910E+01	0.277690E+01
16.400	-0.892100E+00	0.312300E+00	0.416650E+01	0.272790E+01
16.600	-0.878300E+00	0.335000E+00	0.419230E+01	0.268150E+01
16.800	-0.863000E+00	0.355500E+00	0.420840E+01	0.263570E+01
17.000	-0.846500E+00	0.373900E+00	0.421610E+01	0.258940E+01
17.200	-0.828700E+00	0.390000E+00	0.421650E+01	0.254170E+01
17.400	-0.810000E+00	0.404100E+00	0.421040E+01	0.249150E+01
17.600	-0.790300E+00	0.416100E+00	0.419860E+01	0.243860E+01
17.800	-0.769900E+00	0.426000E+00	0.418150E+01	0.238250E+01
18.000	-0.748700E+00	0.434000E+00	0.415980E+01	0.232310E+01
18.600	-0.682400E+00	0.446800E+00	0.407170E+01	0.212380E+01
19.000	-0.636900E+00	0.447200E+00	0.399790E+01	0.197460E+01
19.200	-0.614100E+00	0.445300E+00	0.395760E+01	0.189650E+01
19.400	-0.591300E+00	0.442000E+00	0.391560E+01	0.181660E+01
19.800	-0.546300E+00	0.432000E+00	0.382740E+01	0.165450E+01
20.000	-0.524100E+00	0.425500E+00	0.378180E+01	0.157380E+01
20.400	-0.481000E+00	0.410100E+00	0.368890E+01	0.141580E+01
20.600	-0.460100E+00	0.401400E+00	0.364200E+01	0.133980E+01
21.600	-0.364100E+00	0.351100E+00	0.341090E+01	0.100380E+01
22.400	-0.299000E+00	0.307600E+00	0.323790E+01	0.791000E+00
22.600	-0.284400E+00	0.296800E+00	0.319710E+01	0.746100E+00
22.800	-0.270500E+00	0.286100E+00	0.315740E+01	0.703600E+00
23.000	-0.257300E+00	0.275500E+00	0.311890E+01	0.663700E+00

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3	23.200	-0.244700E+00	0.265100E+00	0.308150E+01	0.626100E+00
4	23.800	-0.210700E+00	0.235300E+00	0.297650E+01	0.526800E+00
5	24.000	-0.200400E+00	0.225900E+00	0.294370E+01	0.495700E+00
6	24.200	-0.190700E+00	0.216700E+00	0.291230E+01	0.467800E+00
7	24.400	-0.181600E+00	0.207900E+00	0.288200E+01	0.441800E+00
8	24.600	-0.173000E+00	0.199300E+00	0.285300E+01	0.417300E+00
9	24.800	-0.164800E+00	0.191000E+00	0.282510E+01	0.394000E+00
10	25.000	-0.157000E+00	0.183000E+00	0.279830E+01	0.372100E+00
11	25.200	-0.149700E+00	0.175300E+00	0.277260E+01	0.351500E+00
12	25.400	-0.142800E+00	0.167900E+00	0.274800E+01	0.331400E+00
13	25.600	-0.136300E+00	0.160800E+00	0.272450E+01	0.312900E+00
14	25.800	-0.130100E+00	0.154000E+00	0.270200E+01	0.295400E+00
15	26.000	-0.124300E+00	0.147500E+00	0.268050E+01	0.278900E+00
16	26.200	-0.118800E+00	0.141300E+00	0.265990E+01	0.262900E+00
17	26.400	-0.113600E+00	0.135300E+00	0.264040E+01	0.248400E+00
18	26.600	-0.108700E+00	0.129600E+00	0.262180E+01	0.235100E+00
19	26.800	-0.104100E+00	0.124100E+00	0.260400E+01	0.221900E+00
20	27.000	-0.998000E-01	0.118900E+00	0.258710E+01	0.209500E+00
21	27.200	-0.957000E-01	0.114000E+00	0.257110E+01	0.198000E+00
22	27.400	-0.919000E-01	0.109300E+00	0.255580E+01	0.186800E+00
23	27.600	-0.883000E-01	0.104800E+00	0.254120E+01	0.176300E+00
24	27.800	-0.850000E-01	0.100500E+00	0.252740E+01	0.166400E+00
25	28.000	-0.818000E-01	0.964000E-01	0.251430E+01	0.157000E+00
26	28.200	-0.789000E-01	0.925000E-01	0.250190E+01	0.148200E+00
27	28.400	-0.761000E-01	0.888000E-01	0.249020E+01	0.139900E+00
28	28.600	-0.735000E-01	0.853000E-01	0.247900E+01	0.132000E+00
29	28.800	-0.711000E-01	0.820000E-01	0.246850E+01	0.124800E+00
30	29.000	-0.689000E-01	0.788000E-01	0.245850E+01	0.117200E+00
31	29.200	-0.668000E-01	0.758000E-01	0.244900E+01	0.110500E+00
32	29.400	-0.648000E-01	0.730000E-01	0.244010E+01	0.104400E+00
33	29.600	-0.630000E-01	0.703000E-01	0.243170E+01	0.989000E-01
34	29.800	-0.613000E-01	0.677000E-01	0.242370E+01	0.931000E-01
35	30.000	-0.597000E-01	0.653000E-01	0.241630E+01	0.881000E-01
36	30.400	-0.569000E-01	0.607000E-01	0.240250E+01	0.789000E-01
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The following tables display the potential energy curves of **NaRb** for the seven lowest $^1\Sigma$ states, the eight lowest $^1\Pi$ states, and the five lowest $^1\Delta$ states (Tables 1 to 3) and for the seven lowest $^3\Sigma$ states, the eight lowest $^3\Pi$ states, and the five lowest $^3\Delta$ states (Tables 4 to 6). Distances and energies are in atomic units, corresponding respectively to 1 a.u. = 1 bohr = 0.0529177 nm, and 1 a.u. = 219474.63137 cm⁻¹. The curves are computed using the large basis set for both atoms, as described in the accompanying paper. The origin of energies is defined at the ionisation limit for both atoms.

Table 1: (1-7) $^1\Sigma^+$

4.400	-0.3271169834	-0.2519720870	-0.2278969038	-0.2105700469	-0.1996517387	-0.1923632003	-0.1861160919
4.600	-0.3336877107	-0.2592578423	-0.2346756989	-0.2183290927	-0.2075365140	-0.1997533873	-0.1936586811
4.800	-0.3397224647	-0.2662315821	-0.2411114258	-0.2255739035	-0.2148711826	-0.2067315611	-0.2007366894
5.000	-0.3451332322	-0.2727799306	-0.2471350374	-0.2321965963	-0.2216174395	-0.2132293275	-0.2072704715
5.200	-0.3498673817	-0.2788169475	-0.2526965597	-0.2381343979	-0.2277550421	-0.2191936847	-0.2132116908
5.400	-0.3539054190	-0.2842881433	-0.2577629570	-0.2433648484	-0.2332801387	-0.2245912612	-0.2185389024
5.600	-0.3572561052	-0.2891692361	-0.2623174861	-0.2478970594	-0.2382052452	-0.2294094949	-0.2232529553
5.800	-0.3599500616	-0.2934613631	-0.2663591336	-0.2517621161	-0.2425577070	-0.2336546744	-0.2273721693
6.000	-0.3620331969	-0.2971849016	-0.2699009371	-0.2550047356	-0.2463765012	-0.2373479728	-0.2309275514
6.200	-0.3635608172	-0.3003733540	-0.2729671801	-0.2576769365	-0.2497082792	-0.2405209162	-0.2339586729
6.400	-0.3654123494	-0.3071577794	-0.2796550249	-0.2628181847	-0.2572848181	-0.2473072168	-0.2403655091
6.600	-0.3653155834	-0.3086434707	-0.2811747226	-0.2637494870	-0.2591640731	-0.2487947172	-0.2417639890
6.800	-0.3643697513	-0.3107081592	-0.2833737538	-0.2647266977	-0.2621938189	-0.2508427369	-0.2437252007
7.000	-0.3636114477	-0.3113625914	-0.2841195673	-0.2648629251	-0.2633989059	-0.2514746597	-0.2443665735
7.200	-0.3627157223	-0.3118095061	-0.2846685228	-0.2648817593	-0.2643617270	-0.2518887444	-0.2448264564
7.400	-0.3617166913	-0.3120777111	-0.2850455776	-0.2654461878	-0.2644710017	-0.2521145299	-0.2451324548
7.600	-0.3606443736	-0.3121924855	-0.2852723876	-0.2661913497	-0.2641368844	-0.2521788040	-0.2453071451
7.800	-0.3595250011	-0.3121757521	-0.2853675348	-0.2668395837	-0.2636773246	-0.2521057272	-0.2453693075
8.000	-0.3583813385	-0.3120462900	-0.2853468604	-0.2673873746	-0.2631321591	-0.2519167934	-0.2453343734
8.200	-0.3572329562	-0.3118200041	-0.2852238554	-0.2678437063	-0.2625256458	-0.2516309319	-0.2452152999
8.400	-0.3560965119	-0.3115102108	-0.2850100634	-0.2682191848	-0.2618779112	-0.2512646458	-0.2450231578
8.600	-0.3549859639	-0.3111279575	-0.2847154910	-0.2685247271	-0.2612065143	-0.2508321973	-0.2447676347
8.800	-0.3539127713	-0.3106823373	-0.2843489794	-0.2687711911	-0.2605268798	-0.2503458359	-0.2444574162
9.000	-0.3519128347	-0.3096295928	-0.2834315176	-0.2691283266	-0.2591944937	-0.2492520261	-0.2437047045
10.000	-0.3509980600	-0.3090338543	-0.2828949995	-0.2692579815	-0.2585625249	-0.2486617163	-0.2432778283
10.200	-0.3501449282	-0.3083981145	-0.2823157209	-0.2693660964	-0.2579638523	-0.2480524845	-0.2428285510
10.400	-0.3493550166	-0.3077264460	-0.2817002767	-0.2694595477	-0.2574038328	-0.2474312985	-0.2423672175
10.600	-0.3486284935	-0.3070226629	-0.2810550983	-0.2695439734	-0.2568859223	-0.2468050492	-0.2419074449
10.800	-0.3479643521	-0.3062904970	-0.2803864979	-0.2696237644	-0.2564118691	-0.2461808176	-0.2414688929
11.000	-0.3473606109	-0.3055336590	-0.2797006169	-0.2697020840	-0.2559819329	-0.2455660507	-0.2410815496
11.200	-0.3468145475	-0.3047559062	-0.2790034359	-0.2697809287	-0.2555951762	-0.2449687857	-0.2407889005
11.400	-0.3463228903	-0.3039610386	-0.2783007392	-0.2698612219	-0.2552497536	-0.2443979498	-0.2406373166
11.600	-0.3458820000	-0.3031528827	-0.2775981130	-0.2699429014	-0.2549431833	-0.2438640353	-0.2406409077
11.800	-0.3454880381	-0.3023352603	-0.2769009652	-0.2700250197	-0.2546726004	-0.2433808041	-0.2407609389
12.000	-0.3451370864	-0.3015119479	-0.2762145693	-0.2701057961	-0.2544349403	-0.2429697795	-0.2409307696
12.200	-0.3448252774	-0.3006861409	-0.2755441541	-0.2701826460	-0.2542271040	-0.2426699494	-0.2410751660
12.400	-0.3445488571	-0.2998629166	-0.2748950970	-0.2702520998	-0.2540460678	-0.2425395067	-0.2411128744
12.600	-0.3443042540	-0.2990442113	-0.2742732509	-0.2703095758	-0.2538889593	-0.2425962996	-0.2410112681
12.800	-0.3440881256	-0.2982337997	-0.2736854766	-0.2703489061	-0.2537531012	-0.2427755924	-0.2408242363
13.000	-0.3438973667	-0.2974347790	-0.2731405929	-0.2703614990	-0.2536360430	-0.2430101250	-0.2406096933
13.200	-0.3437291413	-0.2966500763	-0.2726505216	-0.2703352204	-0.2535355640	-0.2432654165	-0.2403933175
13.400	-0.3435808624	-0.2958824247	-0.2722305874	-0.2702541577	-0.2534496726	-0.2435262459	-0.2401818615
13.600	-0.3434501996	-0.2951343784	-0.2718951938	-0.2701029828	-0.2533765933	-0.2437857538	-0.2399742373
13.800	-0.3433350627	-0.2944082943	-0.2716463629	-0.2698784621	-0.2533147576	-0.2440407496	-0.2397665193
14.000	-0.3432335891	-0.2937063426	-0.2714664644	-0.2695967599	-0.2532627859	-0.2442897406	-0.2395540708
14.200	-0.3431441168	-0.2930304802	-0.2713279606	-0.2692837512	-0.2532194611	-0.2445320474	-0.2393325764
14.400	-0.3430651850	-0.2923824528	-0.2712068830	-0.2689615783	-0.2531837224	-0.2447673850	-0.2390984856
14.600	-0.3429954933	-0.2917637656	-0.2710869620	-0.2686446041	-0.2531546329	-0.2449956441	-0.2388491393
14.800	-0.3429339041	-0.2911756711	-0.2709580566	-0.2683410158	-0.2531313794	-0.2452167961	-0.2385827780
15.000	-0.3428794125	-0.2906191402	-0.2708139266	-0.2680551545	-0.2531132426	-0.2454308440	-0.2382984681
15.200	-0.3428311430	-0.2900948539	-0.2706507208	-0.2677890563	-0.2530995917	-0.2456377948	-0.2379959760
15.400	-0.3427883219	-0.2896031734	-0.2704661110	-0.2675434013	-0.2530898667	-0.2458376561	-0.2376756373
15.600	-0.3427502758	-0.2891441741	-0.2702588065	-0.2673180500	-0.2530835748	-0.2460304443	-0.2373382386
15.800	-0.3427164178	-0.2887174952	-0.2700282748	-0.2671123484	-0.2530802739	-0.2462161837	-0.2369849589
16.000	-0.3426592685	-0.2879586772	-0.2694982278	-0.2667559300	-0.2530811075	-0.2465666689	-0.2362364803
16.200	-0.3426351377	-0.2876245084	-0.2692001371	-0.2666028546	-0.2530845711	-0.2467315332	-0.2358445318
16.400	-0.3426134950	-0.2873187541	-0.2688815030	-0.2664648768	-0.2530896718	-0.2468895860	-0.2354430859
16.600	-0.3425940445	-0.2870399614	-0.2685437594	-0.2663407423	-0.2530961507	-0.2470409321	-0.2350339082
16.800	-0.3425765270	-0.2867864312	-0.2681885072	-0.2662292364	-0.2531037726	-0.2471856888	-0.2346187753
17.000	-0.3425607135	-0.2865564678	-0.2678174566	-0.2661291945	-0.2531123215	-0.2473239876	-0.2341994805
17.200	-0.3425464105	-0.2863483359	-0.2674323891	-0.2660395012	-0.2531216032	-0.2474559733	-0.2337776538
17.400	-0.3425334420	-0.2861602919	-0.2670351301	-0.2659590759	-0.2531314370	-0.2475817986	-0.2333550254
17.600	-0.3425216595	-0.2859906430	-0.2666276125	-0.2658867912	-0.2531416579	-0.2477016187	-0.2329332724
17.800	-0.3425106595	-0.2859006430	-0.2666276125	-0.2658867912	-0.2531416579	-0.2477016187	-0.2329332724

1	
2	
3	18.000 -0.3425109333 -0.2858377611 -0.2662124390 -0.2658208531 -0.2531521117 -0.2478155972 -0.2325141113
4	18.600 -0.3424840015 -0.2854647164 -0.2656730154 -0.2649172403 -0.2531834432 -0.2481240786 -0.2315532217
5	19.000 -0.3424695651 -0.2852741474 -0.2655947861 -0.2640413427 -0.2532029686 -0.2483033927 -0.2316052902
6	19.200 -0.3424631981 -0.2851928848 -0.2655620539 -0.2636014923 -0.2532119304 -0.2483855739 -0.2316367724
7	19.400 -0.3424573267 -0.2851196915 -0.2655328559 -0.2631619434 -0.2532201785 -0.2484629393 -0.2316705457
8	19.800 -0.3424468887 -0.2849942099 -0.2654834758 -0.2622876817 -0.2532339533 -0.2486036533 -0.2317438996
9	20.000 -0.3424422458 -0.2849404785 -0.2654626395 -0.2618547429 -0.2532391679 -0.2486671871 -0.2317830747
10	20.400 -0.3424339505 -0.2848479780 -0.2654273089 -0.2610012906 -0.2532453516 -0.2487809439 -0.2318655377
11	20.600 -0.3424302423 -0.2848081764 -0.2654123537 -0.2605822953 -0.2532459022 -0.2488312511 -0.2319084985
12	21.600 -0.3424152326 -0.2846575847 -0.2653577165 -0.2585948872 -0.2532118280 -0.2490167139 -0.2321347541
13	22.400 -0.3424064752 -0.2845780247 -0.2653307159 -0.2571874668 -0.2531130204 -0.2490796722 -0.2323218049
14	22.600 -0.3424046294 -0.2845620840 -0.2653255374 -0.2568705567 -0.2530726470 -0.2490816992 -0.2323685122
15	22.800 -0.3424029007 -0.2845474233 -0.2653208601 -0.2565706432 -0.2530241002 -0.2490774683 -0.2324150061
16	23.000 -0.3424012816 -0.2845339238 -0.2653166338 -0.2562894139 -0.2529663550 -0.2490664588 -0.2324612087
17	23.200 -0.3423997625 -0.2845214739 -0.2653128083 -0.2560285417 -0.2528984710 -0.2490480557 -0.2325070432
18	23.800 -0.3423957364 -0.2844895084 -0.2653033519 -0.2553810866 -0.2526294589 -0.2489409634 -0.2326416857
19	24.000 -0.3423945498 -0.2844803872 -0.2653007624 -0.2552120703 -0.2525194321 -0.2488850288 -0.2326853486
20	24.200 -0.3423934315 -0.2844719207 -0.2652984074 -0.2550655630 -0.2524018288 -0.2488174092 -0.2327284075
21	24.400 -0.3423923759 -0.2844640517 -0.2652962619 -0.2549399620 -0.2522792309 -0.2487371516 -0.2327707582
22	24.600 -0.3423913805 -0.2844567319 -0.2652943101 -0.2548331772 -0.2521545934 -0.2486434214 -0.2328123617
23	24.800 -0.3423904382 -0.2844499133 -0.2652925277 -0.2547428946 -0.2520309122 -0.2485355699 -0.2328531809
24	25.000 -0.3423895472 -0.2844435559 -0.2652908981 -0.2546667860 -0.2519109294 -0.2484132183 -0.2328931841
25	25.200 -0.3423887030 -0.2844376207 -0.2652894075 -0.2546026603 -0.2517968998 -0.2482763154 -0.2329323437
26	25.400 -0.3423879012 -0.2844320724 -0.2652880410 -0.2545485616 -0.2516904765 -0.2481251743 -0.2329706371
27	25.600 -0.3423871402 -0.2844268833 -0.2652867871 -0.2545028113 -0.2515926924 -0.2479604550 -0.2330080358
28	25.800 -0.3423864169 -0.2844220243 -0.2652856361 -0.2544639858 -0.2515040019 -0.2477831260 -0.2330445294
29	26.000 -0.3423857285 -0.2844174701 -0.2652845763 -0.2544309105 -0.2514244011 -0.2475943767 -0.2330801033
30	26.200 -0.3423850711 -0.2844131957 -0.2652835975 -0.2544026081 -0.2513535289 -0.2473955336 -0.2331147500
31	26.400 -0.3423844452 -0.2844091828 -0.2652826965 -0.2543782890 -0.2512908029 -0.2471879573 -0.2331484524
32	26.600 -0.3423838457 -0.2844054095 -0.2652818612 -0.2543572983 -0.2512355114 -0.2469730085 -0.2331812093
33	26.800 -0.3423832729 -0.2844018609 -0.2652810877 -0.2543391047 -0.2511869022 -0.2467519627 -0.2332130211
34	27.000 -0.3423827242 -0.2843985187 -0.2652803697 -0.2543232717 -0.2511442169 -0.2465259834 -0.2332438740
35	27.200 -0.3423821977 -0.2843953691 -0.2652797016 -0.2543094354 -0.2511067498 -0.2462961449 -0.2332737889
36	27.400 -0.3423816922 -0.2843923983 -0.2652790794 -0.2542973000 -0.2510738450 -0.2460633725 -0.2333027659
37	27.600 -0.3423812073 -0.2843895957 -0.2652785003 -0.2542866149 -0.2510449176 -0.2458284786 -0.2333308063
38	27.800 -0.3423807402 -0.2843869473 -0.2652779591 -0.2542771765 -0.2510194477 -0.2455921640 -0.2333579167
39	28.000 -0.3423802904 -0.2843844441 -0.2652774511 -0.2542688079 -0.2509969832 -0.2453550295 -0.2333841094
40	28.200 -0.3423798575 -0.2843820765 -0.2652769747 -0.2542613667 -0.2509771311 -0.2451175927 -0.2334093950
41	28.400 -0.3423794401 -0.2843798355 -0.2652765276 -0.2542547293 -0.2509595481 -0.2448802883 -0.2334337835
42	28.600 -0.3423790369 -0.2843777122 -0.2652761062 -0.2542487891 -0.2509439392 -0.2446434842 -0.2334572890
43	28.800 -0.3423786483 -0.2843757007 -0.2652757105 -0.2542434599 -0.2509300550 -0.2444075095 -0.2334799354
44	29.000 -0.3423782724 -0.2843737917 -0.2652753363 -0.2542386622 -0.2509176719 -0.2441725998 -0.2335017196
45	29.200 -0.3423779093 -0.2843719803 -0.2652749827 -0.2542343369 -0.2509066040 -0.2439390012 -0.2335226718
46	29.400 -0.3423775581 -0.2843702600 -0.2652746479 -0.2542304227 -0.2508966877 -0.2437068918 -0.2335428037
47	29.600 -0.3423772193 -0.2843686260 -0.2652743320 -0.2542268768 -0.2508877845 -0.2434764326 -0.2335621360
48	29.800 -0.3423768904 -0.2843670707 -0.2652740302 -0.2542236504 -0.2508797702 -0.2432477445 -0.2335806841
49	30.000 -0.3423765723 -0.2843655911 -0.2652737448 -0.2542207115 -0.2508725409 -0.2430209440 -0.2335984657
50	30.400 -0.3423759672 -0.2843628412 -0.2652732143 -0.2542155729 -0.2508600845 -0.2425733403 -0.2336318145

Table 2: (1-8)¹Π

3.000	-0.1944680062	-0.1912670654	-0.1484470638	-0.1443130887	-0.1386078414	-0.1276069762	-0.1228896113	-0.1196048064
3.200	-0.1991745153	-0.1947219981	-0.1557391626	-0.1491871493	-0.1433910772	-0.1325842592	-0.1279271500	-0.1240554463
3.400	-0.2053730718	-0.1997045178	-0.1639389372	-0.1556354962	-0.1497001752	-0.1391408552	-0.1345486352	-0.1301340593
3.600	-0.2123446456	-0.2054833409	-0.1723001255	-0.1629481817	-0.1568952877	-0.1465725989	-0.1420550251	-0.1371214203
3.800	-0.2196843706	-0.2115997667	-0.1804497057	-0.1706959442	-0.1645789375	-0.1544781616	-0.1500451226	-0.1446191192
4.000	-0.2271356999	-0.2177675478	-0.1882244012	-0.1785862881	-0.1724720847	-0.1626005634	-0.1582578701	-0.1524014585
4.200	-0.2345100201	-0.2238171401	-0.1955736568	-0.1863935201	-0.1803565076	-0.1707376136	-0.1664854177	-0.1602619681
4.400	-0.2416546914	-0.2296542838	-0.2024980576	-0.1939329714	-0.1880514307	-0.1787077270	-0.1745406542	-0.1679981770
4.600	-0.2484436835	-0.2352264921	-0.2090096183	-0.2010597197	-0.1954063584	-0.1863479413	-0.1822559092	-0.1754439500
4.800	-0.2547763134	-0.2404990866	-0.2151079700	-0.2076763277	-0.2023012504	-0.1935224324	-0.1894912574	-0.1824718722
5.000	-0.2605780401	-0.2454417063	-0.2207724311	-0.2137351759	-0.2086487718	-0.2001306106	-0.1961424570	-0.1889882060
5.200	-0.2658009404	-0.2500240949	-0.2259698971	-0.2192277150	-0.2143950832	-0.2061108126	-0.2021449402	-0.1949294415
5.400	-0.2704227866	-0.2542181013	-0.2306705947	-0.2241660445	-0.2195174548	-0.2114383222	-0.2074724678	-0.2002596100
5.600	-0.2744443130	-0.2580021418	-0.2348603282	-0.2285684036	-0.2240190393	-0.2161187637	-0.2121309706	-0.2049678029
5.800	-0.2778850898	-0.2613648748	-0.2385444366	-0.2324534836	-0.2279222215	-0.2201794093	-0.2161496138	-0.2090644610
6.000	-0.2807788148	-0.2643066499	-0.2417457246	-0.2358406147	-0.2312621542	-0.2236609114	-0.2195718271	-0.2125768410
6.200	-0.2831686998	-0.2668386911	-0.2444999885	-0.2387513843	-0.2340814155	-0.2266108508	-0.2224481946	-0.2155436386
6.400	-0.2878116089	-0.2722026557	-0.2505339161	-0.2448893149	-0.2398776566	-0.2327656334	-0.2283283516	-0.2216353794
6.600	-0.2886851957	-0.2733420943	-0.2519561055	-0.2461742019	-0.2410742247	-0.2340744251	-0.2295397933	-0.2228896944
6.800	-0.2897033363	-0.2748297861	-0.2541515139	-0.2478171765	-0.2426141542	-0.2358239958	-0.2311103384	-0.2246290541
7.000	-0.2899302971	-0.2752355014	-0.2549831218	-0.2482516709	-0.2430307119	-0.2363349493	-0.2315470645	-0.2251388708
7.200	-0.2900174474	-0.2754513495	-0.2556681921	-0.2484777654	-0.2432552418	-0.2366448183	-0.2317965548	-0.2254345337
7.400	-0.2899956899	-0.2755018259	-0.2562254282	-0.2485297669	-0.2433165422	-0.2367809612	-0.2318874859	-0.2255468751
7.600	-0.2898916519	-0.2754098573	-0.2566710591	-0.2484387826	-0.2432404417	-0.2367681296	-0.2318446315	-0.2255038546
7.800	-0.2897277709	-0.2751969641	-0.2570194016	-0.2482324610	-0.2430499386	-0.2366287757	-0.2316892671	-0.2253306835
8.000	-0.2895225116	-0.2748834116	-0.2572831634	-0.2479349489	-0.2427653172	-0.2363828160	-0.2314386011	-0.2250499534
8.200	-0.2892906918	-0.2744883074	-0.2574737266	-0.2475670529	-0.2424043386	-0.2360482598	-0.2311069654	-0.2246819748
8.400	-0.2890438822	-0.2740296209	-0.2576012707	-0.2471463977	-0.2419823784	-0.2356411621	-0.2307058534	-0.2242449818
8.600	-0.2887908464	-0.2735241076	-0.2576748904	-0.2466876193	-0.2415125908	-0.2351758153	-0.2302445223	-0.2237553740
8.800	-0.2885380329	-0.2729872205	-0.2577026847	-0.2462025816	-0.2410061046	-0.2346648926	-0.2297305536	-0.2232279569
9.000	-0.2880498226	-0.2718738449	-0.2576487316	-0.2451887214	-0.2399187461	-0.2335496828	-0.2285698253	-0.2221964499
10.000	-0.2878194750	-0.2713206425	-0.2575789721	-0.2446720467	-0.2393520767	-0.2329637657	-0.2279343057	-0.2217706496
10.200	-0.2876000876	-0.2707824793	-0.2574875485	-0.2441541167	-0.2387776015	-0.2323692333	-0.2272692026	-0.2213543220
10.400	-0.2873921983	-0.2702667175	-0.2573788932	-0.2436373209	-0.2381998192	-0.2317724501	-0.2265798942	-0.2209483415
10.600	-0.2871959268	-0.2697790010	-0.2572569638	-0.2431232980	-0.2376225006	-0.2311788210	-0.2258717625	-0.2205523383
10.800	-0.2870111224	-0.2693233355	-0.2571253250	-0.2426133404	-0.2370487956	-0.2305929040	-0.2251501596	-0.2201654003
11.000	-0.2868374400	-0.2689021899	-0.2569871684	-0.2421086813	-0.2364812841	-0.2300184658	-0.2244202980	-0.2197863718
11.200	-0.2866744381	-0.2685166909	-0.2568453537	-0.2416107395	-0.2359220228	-0.2294585803	-0.2236872030	-0.2194145798
11.400	-0.2865216112	-0.2681668008	-0.2567023965	-0.2411212344	-0.2353725773	-0.2289156750	-0.2229556140	-0.2190501266
11.600	-0.2863784313	-0.2678515622	-0.2565604674	-0.2406422192	-0.2348340682	-0.2283915901	-0.2222299838	-0.2186950652
11.800	-0.2862443650	-0.2675693149	-0.2564213853	-0.2401760283	-0.2343072481	-0.2278876189	-0.2215144948	-0.2183544942
12.000	-0.2861188848	-0.2673179117	-0.2562866100	-0.2397251555	-0.2337925933	-0.2274045385	-0.2208131839	-0.2180373995
12.200	-0.2860014838	-0.2670949138	-0.2561572563	-0.2392921043	-0.2332904386	-0.2269426391	-0.2201302463	-0.2177543070
12.400	-0.2858916847	-0.2668977421	-0.2560341190	-0.2388792101	-0.2328010906	-0.2265017503	-0.2194706674	-0.2175097877
12.600	-0.2857890252	-0.2667238046	-0.2559177004	-0.2384884862	-0.2323249688	-0.2260812802	-0.2188418895	-0.2172959382
12.800	-0.2856930720	-0.2665705990	-0.2558082476	-0.2381214891	-0.2318626919	-0.2256802638	-0.2182583217	-0.2170913597
13.000	-0.2856034139	-0.2664357531	-0.2557058085	-0.2377792384	-0.2314151380	-0.2252974305	-0.2177522124	-0.2168560126
13.200	-0.2855196630	-0.2663170922	-0.2556102627	-0.2374621972	-0.2309834503	-0.2249312955	-0.2173760953	-0.2165311369
13.400	-0.2854414584	-0.2662126143	-0.2555213715	-0.2371702774	-0.2305689726	-0.2245802510	-0.2171359706	-0.2161063020
13.600	-0.2853684526	-0.2661205405	-0.2554388092	-0.2369029155	-0.2301731722	-0.2242426810	-0.2169729117	-0.2156374104
13.800	-0.2853003183	-0.2660393011	-0.2553621932	-0.2366591468	-0.2297975102	-0.2239170651	-0.2168426608	-0.2151667416
14.000	-0.2852367563	-0.2659674883	-0.2552911172	-0.2364671126	-0.2294433061	-0.2236020761	-0.2167253230	-0.2147129364
14.200	-0.2851774666	-0.2659038892	-0.2552251607	-0.2362371506	-0.2291116184	-0.2232966494	-0.2166115908	-0.2142843875
14.400	-0.2851221865	-0.2658474367	-0.2551639155	-0.2360558899	-0.2288031513	-0.2230000308	-0.2164965807	-0.2138854458
14.600	-0.2850706489	-0.2657972112	-0.2551069783	-0.2358923104	-0.2285181918	-0.2227117688	-0.2163772528	-0.2135183540
14.800	-0.2850226110	-0.2657524164	-0.2550539774	-0.2357448116	-0.2282565955	-0.2224316931	-0.2162517208	-0.2131841841
15.000	-0.28497078451	-0.2657123553	-0.2550045634	-0.2356118486	-0.2280178103	-0.2221598444	-0.2161188386	-0.2128831710
15.200	-0.2849361348	-0.2656764335	-0.2549584194	-0.2354919623	-0.2278009336	-0.2218963982	-0.2159779915	-0.2126149849
15.400	-0.2848972709	-0.2656441394	-0.2549152525	-0.2353837898	-0.2276047792	-0.2216415688	-0.2158290064	-0.2123787600
15.600	-0.2848610648	-0.2656150284	-0.2548748044	-0.2352860846	-0.2274279676	-0.2213955363	-0.2156720773	-0.2121730747
15.800	-0.2848273318	-0.2655887209	-0.2548368403	-0.2351977064	-0.2272689993	-0.2211583837	-0.2155077373	-0.2119958954
16.000	-0.2847666251	-0.2655432283	-0.2547675564	-0.2350449297	-0.2269983971	-0.2207103256	-0.2151598076	-0.2117156761
16.200	-0.2847393421	-0.2655235122	-0.2547358902	-0.2349787839	-0.2268837305	-0.2204988629	-0.2149782780	-0.2116059682
16.400	-0.2847139166	-0.2655055175	-0.2547060071	-0.2349184605	-0.2267809118	-0.2202951850	-0.2147931998	-0.2115118815
16.600	-0.2846902208	-0.2654897001	-0.2546777789	-0.234863104	-0.2266886253	-0.2200987165	-0.2146056944	-0.2114301556
16.800	-0.2846681316	-0.2654739773	-0.2546510957	-0.2348127601	-0.2266056698	-0.2199088356	-0.2144168920	-0.2113579804
17.000	-0.2846475354	-0.2654601268	-0.2546258510	-0.2347663027	-0.2265309461	-0.2197248870	-0.2142278493	-0.2112930156
17.200	-0.2846283307	-0.2654473853	-0.2546019610	-0.2347234945	-0.2264634760	-0.2195462237	-0.2140395316	-0.2112333974
17.400	-0.2846104150	-0.2654356436	-0.2545793391	-0.2346839398	-0.2264023750	-0.2193722145	-0.2138527923	-0.2111776744
17.600	-0.2845937000	-0.2654248062	-0.2545579154	-0.2346472965	-0.2263468625	-0.2192022750	-0.2136683722	-0.2111247573
17.800	-0.2845781028	-0.2654147902	-0.2545376237	-0.2346132628	-0.2262962492	-0.2190358666	-0.2134868978	-0.2110738361
18.000	-0.2845635398	-0.2654055190	-0.2545184008	-0.2345815686	-0.2262499225	-0.2188725043	-0.2133088752	-0.2110243183

1	
2	
3	18.400 -0.2845499427 -0.2653969296 -0.2545001929 -0.2345519854 -0.2262073508 -0.2187117667 -0.2131347147 -0.2109757833
4	18.600 -0.2845372398 -0.2653889595 -0.2544829466 -0.2345243038 -0.2261680659 -0.2185532793 -0.2129647304 -0.2109279309
5	18.800 -0.2845253702 -0.2653815602 -0.2544666170 -0.2344983465 -0.2261316582 -0.2183967267 -0.2127991480 -0.2108805500
6	19.000 -0.2845142741 -0.2653746823 -0.2544511533 -0.2344739529 -0.2260977730 -0.2182418456 -0.2126381437 -0.2108335110
7	19.200 -0.2845038983 -0.2653682863 -0.2544365158 -0.2344509856 -0.2260661009 -0.2180883990 -0.2124818019 -0.2107866994
8	19.400 -0.2844941926 -0.2653623323 -0.2544226664 -0.2344293191 -0.2260363735 -0.2179362098 -0.2123301877 -0.2107400469
9	19.600 -0.2844851083 -0.2653567878 -0.2544095620 -0.2344088462 -0.2260083589 -0.2177851581 -0.2121833722 -0.2106935155
10	19.800 -0.2844766027 -0.2653516213 -0.2543971688 -0.2343894712 -0.2259818596 -0.2176351265 -0.2120413481 -0.2106470520
11	20.000 -0.2844686361 -0.2653468060 -0.2543854503 -0.2343711083 -0.2259566982 -0.2174859923 -0.2119040585 -0.2106005784
12	20.200 -0.2844611711 -0.2653423161 -0.2543743765 -0.2343536833 -0.2259327291 -0.2173377089 -0.2117715105 -0.2105540346
13	20.400 -0.2844541730 -0.2653381280 -0.2543639109 -0.2343371278 -0.2259098229 -0.2171902301 -0.2116436990 -0.2105073431
14	20.600 -0.2844476086 -0.2653342204 -0.2543540249 -0.2343213827 -0.2258878702 -0.2170435302 -0.2115206228 -0.2104603895
15	20.800 -0.2844414491 -0.2653305735 -0.2543446880 -0.2343063929 -0.2258667791 -0.2168975944 -0.2114023058 -0.2104130340
16	21.200 -0.2844302344 -0.2653239915 -0.2543275539 -0.2342784956 -0.2258268666 -0.2166080139 -0.2111801788 -0.2103163710
17	21.600 -0.2844203319 -0.2653182519 -0.2543122932 -0.2342531058 -0.2257895750 -0.2163215713 -0.2109781281 -0.2102154713
18	22.000 -0.2844115696 -0.2653132392 -0.2542987106 -0.2342299492 -0.2257545373 -0.2160384690 -0.2107974586 -0.2101793864
19	22.400 -0.2844038025 -0.2653088575 -0.2542866247 -0.2342087996 -0.2257214878 -0.2157589421 -0.2106394534 -0.2099913429
20	22.600 -0.2844002504 -0.2653068743 -0.2542810909 -0.2341989152 -0.2257056439 -0.2156206016 -0.2105691070 -0.2099291379
21	22.800 -0.2843969008 -0.2653050166 -0.2542758705 -0.2341894606 -0.2256902294 -0.2154832577 -0.2105043989 -0.2098642759
22	23.000 -0.2843937414 -0.2653032766 -0.2542709468 -0.2341804167 -0.2256752299 -0.2153469465 -0.2104794586 -0.2097968791
23	23.200 -0.2843907587 -0.2653016446 -0.2542663020 -0.2341717658 -0.2256606290 -0.2152116969 -0.2103907586 -0.2097271800
24	23.800 -0.2843827635 -0.2652973239 -0.2542538770 -0.2341479902 -0.2256191154 -0.2148126590 -0.2102534361 -0.2095074700
25	24.000 -0.2843803831 -0.2652960527 -0.2542501897 -0.2341407385 -0.2256060098 -0.2146819824 -0.2102146766 -0.2094317916
26	24.200 -0.2843781302 -0.2652948553 -0.2542467087 -0.2341337989 -0.2255932592 -0.2145525300 -0.2101787495 -0.2093553723
27	24.400 -0.2843759964 -0.2652937262 -0.2542434174 -0.2341271573 -0.2255808562 -0.2144243186 -0.2101453447 -0.2092784392
28	24.600 -0.2843739767 -0.2652926626 -0.2542403105 -0.2341208042 -0.2255687968 -0.2142973801 -0.2101141526 -0.2092011685
29	24.800 -0.2843720609 -0.2652916573 -0.2542373714 -0.2341147219 -0.2255570712 -0.2141717362 -0.2100849309 -0.2091236996
30	25.000 -0.2843702455 -0.2652907075 -0.2542345940 -0.2341089043 -0.2255456794 -0.2140474132 -0.2100574718 -0.2090461392
31	25.200 -0.2843685230 -0.2652898081 -0.2542319673 -0.2341033362 -0.2255346145 -0.2139244318 -0.2100315939 -0.2089685672
32	25.400 -0.2843668868 -0.2652889554 -0.2542294793 -0.2340980078 -0.2255238691 -0.2138028119 -0.2100071584 -0.2088910388
33	25.600 -0.2843653339 -0.2652881471 -0.2542271262 -0.2340929085 -0.2255134419 -0.2136825760 -0.2099840309 -0.2088135958
34	25.800 -0.2843638587 -0.2652873794 -0.2542248977 -0.2340880302 -0.2255033275 -0.2135637434 -0.2099621070 -0.2087362655
35	26.000 -0.2843624567 -0.2652866499 -0.2542227879 -0.2340833625 -0.2254935202 -0.2134463300 -0.2099412872 -0.2086590636
36	26.200 -0.2843611224 -0.2652859542 -0.2542207865 -0.2340788952 -0.2254840158 -0.2133303534 -0.2099214940 -0.2085820020
37	26.400 -0.2843598545 -0.2652852927 -0.2542188912 -0.2340746217 -0.2254748086 -0.2132158312 -0.2099026559 -0.2085050889
38	26.600 -0.2843586463 -0.2652846599 -0.2542170929 -0.2340705313 -0.2254658937 -0.2131027903 -0.2098847083 -0.2084283479
39	26.800 -0.2843574966 -0.2652840559 -0.2542153869 -0.2340666180 -0.2254572677 -0.2129912168 -0.2098675887 -0.2083517524
40	27.000 -0.2843564011 -0.2652834784 -0.2542137694 -0.2340628735 -0.2254489233 -0.2128811353 -0.2098512481 -0.2082753328
41	27.200 -0.2843553568 -0.2652829246 -0.2542122326 -0.2340592896 -0.2254408563 -0.2127725564 -0.2098356437 -0.2081991078
42	27.400 -0.2843543607 -0.2652823937 -0.2542107731 -0.2340558603 -0.2254330597 -0.2126654885 -0.2098207310 -0.2081231039
43	27.600 -0.2843534115 -0.2652818851 -0.2542093881 -0.2340525785 -0.2254255307 -0.2125599406 -0.2098064734 -0.2080473657
44	27.800 -0.2843525051 -0.2652813957 -0.2542080702 -0.2340494377 -0.2254182621 -0.2124559108 -0.2097928352 -0.2079719533
45	28.000 -0.2843516394 -0.2652809248 -0.2542068182 -0.2340464315 -0.2254112466 -0.2123534141 -0.2097797840 -0.2078969568
46	28.400 -0.2843500238 -0.2652800365 -0.2542044953 -0.2340408010 -0.2253979576 -0.2121529993 -0.2097553260 -0.2077487895
47	29.000 -0.2843478574 -0.2652788192 -0.2542014160 -0.2340333225 -0.2253797853 -0.2118637889 -0.2097223471 -0.2075357656
48	29.200 -0.2843471970 -0.2652784413 -0.2542004856 -0.2340309130 -0.2253741730 -0.2117703990 -0.2097122511 -0.2074703099
49	29.400 -0.2843465648 -0.2652780762 -0.2541995996 -0.2340286978 -0.2253687730 -0.2116785009 -0.2097025678 -0.2074125370
50	29.600 -0.2843459603 -0.2652777243 -0.2541987557 -0.2340265780 -0.2253635789 -0.2115880779 -0.2096932823 -0.2073761960
51	29.800 -0.2843453800 -0.2652773825 -0.2541979500 -0.2340245463 -0.2253585837 -0.2114991130 -0.2096843713 -0.2073627536
52	30.000 -0.2843448244 -0.2652770527 -0.2541971825 -0.2340226022 -0.2253537838 -0.2114115857 -0.2096758184 -0.2073556106
53	30.200 -0.28434442921 -0.2652767340 -0.2541964501 -0.2340207387 -0.2253491709 -0.2113254820 -0.2096676107 -0.2073501370
54	30.600 -0.2843432921 -0.2652761270 -0.2541950839 -0.2340172447 -0.2253404826 -0.2111574465 -0.2096521681 -0.2073410306

Table 3: (1-5)¹Δ

3.000	-0.1856692734	-0.1387407671	-0.1316999341	-0.1272427870	-0.1215764608
3.200	-0.1899053661	-0.1431626951	-0.1377487598	-0.1300802889	-0.1271865646
3.400	-0.1957293371	-0.1494797608	-0.1451242903	-0.1353567280	-0.1335627359
3.600	-0.2022867822	-0.1569500145	-0.1528236246	-0.1424891840	-0.1399685497
3.800	-0.2090693515	-0.1649625449	-0.1605804635	-0.1503199248	-0.1468846957
4.000	-0.2157737496	-0.1730732383	-0.1683453092	-0.1583038446	-0.1544081865
4.200	-0.2222212373	-0.1810296489	-0.1760541875	-0.1661799289	-0.1622355407
4.400	-0.2283081173	-0.1886830661	-0.1836164693	-0.1737628988	-0.1700417178
4.600	-0.2339744393	-0.1959271133	-0.1909297738	-0.1809160819	-0.1775976969
4.800	-0.2391848940	-0.2026767446	-0.1978884503	-0.1875474409	-0.1847420742
5.000	-0.2439183676	-0.2088664224	-0.2043942356	-0.1936052642	-0.1913570333
5.200	-0.2481633671	-0.2144531464	-0.2103683421	-0.1990761960	-0.1973532225
5.400	-0.2519168697	-0.2194178451	-0.2157592951	-0.2039937375	-0.2026499462
5.600	-0.2551844241	-0.2237636325	-0.2205441035	-0.2084367026	-0.2071676688
5.800	-0.2579800750	-0.2275118834	-0.2247243461	-0.2124388711	-0.2109092955
6.000	-0.2603256447	-0.2306976898	-0.2283199246	-0.2159578413	-0.2139818246
6.200	-0.2622492820	-0.2333658297	-0.2313623980	-0.2189756066	-0.2164866494
6.400	-0.2658277520	-0.2388018848	-0.2375401860	-0.2252990416	-0.2212873317
7.000	-0.2664103732	-0.2399484546	-0.2387353655	-0.2266355298	-0.2221911686
7.400	-0.2668729211	-0.2415085665	-0.2400841634	-0.2284040048	-0.2234065348
7.600	-0.2668180972	-0.2419691192	-0.2403430109	-0.2289112179	-0.2238018283
7.800	-0.2666123545	-0.2422441852	-0.2403874480	-0.2292115551	-0.2240317799
8.000	-0.2662825833	-0.2423555356	-0.2402548186	-0.2293340321	-0.2240953071
8.200	-0.2658532802	-0.2423246549	-0.2399762842	-0.2293043332	-0.2240073117
8.400	-0.2653465934	-0.2421716456	-0.2395782997	-0.2291450389	-0.2237872222
8.600	-0.2647824137	-0.2419146794	-0.2390836515	-0.2288759011	-0.2234546579
8.800	-0.2641784612	-0.2415698152	-0.2385121105	-0.2285141393	-0.2230280150
9.000	-0.2635503781	-0.2411510490	-0.2378808984	-0.2280747485	-0.2225240694
9.200	-0.2629117952	-0.2406704620	-0.2372050100	-0.2275707879	-0.2219579179
9.400	-0.2622744084	-0.2401384518	-0.2364974675	-0.2270136798	-0.2213430747
9.800	-0.2610407485	-0.2389549397	-0.2350307391	-0.2257790024	-0.2200142635
10.000	-0.2604588360	-0.2383182563	-0.2342892793	-0.2251182581	-0.2193207200
10.200	-0.2599070456	-0.2376603146	-0.2335518566	-0.2244383778	-0.2186196770
10.400	-0.2593886589	-0.2369870948	-0.2328239064	-0.2237458786	-0.2179190796
10.600	-0.2589056494	-0.2363043527	-0.2321096525	-0.2230467227	-0.2172262873
10.800	-0.2584588797	-0.2356177568	-0.2314121905	-0.2223464004	-0.2165482574
11.000	-0.2580482657	-0.2349329370	-0.2307335417	-0.2216499556	-0.2158916936
11.200	-0.2576729774	-0.2342555225	-0.2300747587	-0.2209620229	-0.2152631629
11.400	-0.2573316120	-0.2335910926	-0.2294360072	-0.2202868315	-0.2146691089
11.600	-0.2570223548	-0.2329451018	-0.2288167073	-0.2196282028	-0.2141156678
11.800	-0.2567431267	-0.2323227365	-0.2282157017	-0.2189895515	-0.2136082196
12.000	-0.2564916974	-0.2317287427	-0.2276314773	-0.2183738776	-0.2131506319
12.200	-0.2562657872	-0.2311672044	-0.2270624169	-0.2177837615	-0.2127443642
12.400	-0.2560631359	-0.2306413382	-0.2265070661	-0.2172213616	-0.2123878263
12.600	-0.2558815643	-0.2301533169	-0.2259643535	-0.2166884077	-0.2120763967
12.800	-0.2557189983	-0.2297041795	-0.2254337430	-0.2161861925	-0.2118032102
13.000	-0.2555735075	-0.2292938517	-0.2249152705	-0.2157155569	-0.2115603791
13.200	-0.2554433072	-0.2289212838	-0.2244094823	-0.2152768818	-0.2113401786
13.400	-0.2553267680	-0.2285846432	-0.2239172831	-0.2148700709	-0.2111358553
13.600	-0.2552224090	-0.2282815697	-0.2234397577	-0.2144945461	-0.2109420425
13.800	-0.2551288944	-0.2280093876	-0.2229780002	-0.2141492545	-0.2107548433
14.000	-0.2550450330	-0.2277653113	-0.2225329712	-0.2138327145	-0.2105717332
14.200	-0.2549697524	-0.2275465758	-0.2221054020	-0.2135430746	-0.2103913411
14.400	-0.2549021034	-0.2273505441	-0.2216957529	-0.2132782379	-0.2102132022
14.600	-0.2548412375	-0.2271747545	-0.2213041871	-0.2130359588	-0.2100374856
14.800	-0.2547864055	-0.2270169559	-0.2209305870	-0.2128139770	-0.2098647507
15.000	-0.2547369424	-0.2268751127	-0.2205745944	-0.2126101308	-0.2096957439
15.200	-0.2546922613	-0.2267474087	-0.2202356403	-0.2124224179	-0.2095312440
15.400	-0.2546518375	-0.2266322219	-0.2199129860	-0.2122490507	-0.2093719544
15.600	-0.2546152147	-0.2265281220	-0.2196057775	-0.2120884594	-0.2092184430
15.800	-0.2545819841	-0.2264338462	-0.2193130794	-0.2119392974	-0.2090711184
16.000	-0.2545243022	-0.2262704681	-0.2187672733	-0.2116708282	-0.2087958978
16.400	-0.2544992515	-0.2261995381	-0.2185121858	-0.2115497043	-0.2086680906
16.600	-0.2544763836	-0.2261347459	-0.2182676858	-0.2114363200	-0.2085466991
16.800	-0.2544554781	-0.2260754349	-0.2180328617	-0.2113300517	-0.2084315382
17.000	-0.2544363395	-0.2260210298	-0.2178068490	-0.2112303511	-0.2083223716
17.600	-0.2543878767	-0.2258824933	-0.2171739031	-0.2109660162	-0.2080280846
18.200	-0.2543500951	-0.2257731837	-0.2165947784	-0.2107458424	-0.2077777493
18.400	-0.2543393891	-0.2257418919	-0.2164111541	-0.2106807767	-0.2077028900
18.800	-0.2543203171	-0.2256856991	-0.2160554356	-0.2105615362	-0.2075648449
19.000	-0.2543118188	-0.2256604422	-0.2158826304	-0.2105068967	-0.2075013673
19.200	-0.2543039338	-0.2256368688	-0.2157127799	-0.2104552986	-0.2074414496

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3	19.400 -0.2542966111 -0.2256148430 -0.2155456171 -0.2104065487 -0.2073850362
4	19.600 -0.2542898021 -0.2255942407 -0.2153808995 -0.2103604663 -0.2073321114
5	19.800 -0.2542834658 -0.2255749524 -0.2152184178 -0.2103168877 -0.2072827023
6	20.000 -0.2542775642 -0.2255568785 -0.2150579799 -0.2102756584 -0.2072368819
7	20.200 -0.2542720623 -0.2255399288 -0.2148994216 -0.2102366349 -0.2071947605
8	20.400 -0.2542669283 -0.2255240186 -0.2147425897 -0.2101996843 -0.2071564824
9	20.600 -0.2542621332 -0.2255090736 -0.2145873551 -0.2101646814 -0.2071222064
10	20.800 -0.2542576511 -0.2254950264 -0.2144336020 -0.2101315126 -0.2070920848
11	21.200 -0.2542495313 -0.2254693749 -0.2141301440 -0.2100702495 -0.2070446424
12	21.600 -0.2542424031 -0.2254466245 -0.2138315423 -0.2100151173 -0.2070138336
13	22.000 -0.2542361245 -0.2254264000 -0.2135372857 -0.2099654336 -0.2069974682
14	24.000 -0.2542139550 -0.2253535482 -0.2121212374 -0.2097802443 -0.2070217677
15	24.200 -0.2542123611 -0.2253482316 -0.2119843020 -0.2097662719 -0.2070275714
16	24.400 -0.2542108520 -0.2253431929 -0.2118482000 -0.2097529579 -0.2070334554
17	25.000 -0.2542067879 -0.2253295856 -0.2114449776 -0.2097166321 -0.2070510884
18	25.800 -0.2542022776 -0.2253144605 -0.2109196516 -0.2096755331 -0.2070734138
19	26.000 -0.2542012881 -0.2253111406 -0.2107906287 -0.2096663959 -0.2070786715
20	26.200 -0.2542003461 -0.2253079861 -0.2106625709 -0.2096576662 -0.2070837823
21	26.400 -0.2541994514 -0.2253049875 -0.2105355068 -0.2096493272 -0.2070887447
22	26.600 -0.2541985986 -0.2253021336 -0.2104094621 -0.2096413558 -0.2070935536
23	26.800 -0.2541977872 -0.2252994225 -0.2102844672 -0.2096337337 -0.2070982102
24	27.000 -0.2541970142 -0.2252968410 -0.2101605557 -0.2096264423 -0.2071027140
25	27.200 -0.2541962772 -0.2252943833 -0.2100377667 -0.2096194623 -0.2071070651
26	27.400 -0.2541955743 -0.2252920451 -0.2099161414 -0.2096127714 -0.2071112662
27	27.600 -0.2541949046 -0.2252898177 -0.2097957465 -0.2096063332 -0.2071153201
28	27.800 -0.2541942648 -0.2252876973 -0.2096767803 -0.2095999778 -0.2071192283
29	28.000 -0.2541936539 -0.2252856766 -0.2095954464 -0.2095575338 -0.2071229941
30	28.200 -0.2541930709 -0.2252837505 -0.2095891952 -0.2094415952 -0.2071266217
31	28.400 -0.2541925138 -0.2252819149 -0.2095837449 -0.2093264820 -0.2071301133
32	28.600 -0.2541919808 -0.2252801653 -0.2095785751 -0.2092127615 -0.2071334718
33	28.800 -0.2541914720 -0.2252784957 -0.2095736388 -0.2091005409 -0.2071367023
34	29.000 -0.2541909845 -0.2252769039 -0.2095689127 -0.2089898934 -0.2071398066
35	29.200 -0.2541905183 -0.2252753852 -0.2095643873 -0.2088808968 -0.2071427880
36	30.000 -0.2541888424 -0.2252699665 -0.2095480744 -0.2084630726 -0.2071535421
37	30.200 -0.2541884663 -0.2252687615 -0.2095444031 -0.2083636052 -0.2071559482
38	30.400 -0.2541881054 -0.2095408802 -0.2095408762 -0.2082663260 -0.2071582434
39	30.600 -0.2541877592 -0.2252665070 -0.2095374981 -0.2081713399 -0.2071604277
40	30.800 -0.2541874275 -0.2252654554 -0.2095342481 -0.2080787516 -0.2071624995
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Table 4: $(1-7)^3\Sigma^+$

4.400	-0.2844899441	-0.2282117620	-0.2200108603	-0.1982453557	-0.1880454298	-0.1851579434	-0.1815281972
4.600	-0.2910993646	-0.2348940145	-0.2287585038	-0.2061034946	-0.1962531979	-0.1929682314	-0.1894122580
4.800	-0.2973127619	-0.2415030011	-0.2367726514	-0.2135351392	-0.2040242859	-0.2002574405	-0.1968430336
5.000	-0.3030794446	-0.2482400125	-0.2436344397	-0.2204289043	-0.2112151240	-0.2069607093	-0.2037193731
5.200	-0.3083675168	-0.2549789360	-0.2493131391	-0.2267102807	-0.2177382102	-0.2130395233	-0.2099722052
5.400	-0.3131625003	-0.2613292854	-0.2541088006	-0.2323412891	-0.2235544032	-0.2184789508	-0.2155639023
5.600	-0.3174654793	-0.2670680797	-0.2582159559	-0.2373154807	-0.2286612018	-0.2232850705	-0.2204849799
5.800	-0.3212905051	-0.2721286285	-0.2617236455	-0.2416506067	-0.2330819238	-0.2274806378	-0.2247490528
6.000	-0.3246615764	-0.2765161784	-0.2646861170	-0.2453811360	-0.2368568363	-0.2311000388	-0.2283872130
6.200	-0.3276095623	-0.2802685309	-0.2671491128	-0.2485517780	-0.2400362290	-0.2341846638	-0.2314425046
6.400	-0.3342718546	-0.2882611210	-0.2719818306	-0.2552084294	-0.2465571323	-0.2406823859	-0.2376221614
7.000	-0.3358867808	-0.2900286852	-0.2728838740	-0.2566425185	-0.2479083709	-0.2420803478	-0.2388599494
7.400	-0.3384112068	-0.2925366235	-0.2738662269	-0.2586075107	-0.2496808348	-0.2439817933	-0.2403911394
7.600	-0.3393799188	-0.2933683320	-0.2740194140	-0.2592175103	-0.2501921061	-0.2445671584	-0.2407728176
7.800	-0.3401877505	-0.2939718492	-0.2739916308	-0.2596256448	-0.2505087783	-0.2449671965	-0.2409684624
8.000	-0.3408572950	-0.2943816479	-0.2738128527	-0.2598261978	-0.2506708895	-0.2452423133	-0.2412180561
8.200	-0.3414084999	-0.2946281146	-0.2735104608	-0.2599540660	-0.2507211681	-0.2455066473	-0.2423858399
8.400	-0.3418588622	-0.2947378855	-0.2731093677	-0.2599250557	-0.2507138050	-0.2459902193	-0.2433732573
8.600	-0.3422236399	-0.2947342232	-0.2726321767	-0.2597962431	-0.2507348469	-0.2467858162	-0.2436899219
8.800	-0.3425160684	-0.2946373819	-0.2720993729	-0.2595863332	-0.2509302234	-0.2475220377	-0.2435770538
9.000	-0.3427475987	-0.2944649420	-0.2715295088	-0.2593120783	-0.2514395451	-0.2478692901	-0.2432590447
9.200	-0.3429280810	-0.2942321114	-0.2709393547	-0.2589887252	-0.2522039114	-0.2478281983	-0.2428276139
9.400	-0.3430659718	-0.2939520078	-0.2703440580	-0.2586306877	-0.2530538927	-0.2475559253	-0.2423243712
9.800	-0.3432418080	-0.2932933358	-0.2691910407	-0.2578727128	-0.2546270992	-0.2466981420	-0.2411931198
10.000	-0.3432911210	-0.2929325260	-0.2686562030	-0.2575200101	-0.2552547278	-0.2461931944	-0.2405960535
10.200	-0.3433208459	-0.2925603302	-0.2681619499	-0.2572607877	-0.2556957808	-0.2456617206	-0.2399938701
10.400	-0.3433346927	-0.2921825045	-0.2677158679	-0.2572191544	-0.2558296527	-0.2451130704	-0.2393961732
10.600	-0.3433357732	-0.2918038266	-0.2673236115	-0.2573954842	-0.2556615881	-0.2445534384	-0.2388111647
10.800	-0.3433266988	-0.2914282298	-0.2669885584	-0.2576278499	-0.2553606021	-0.2439871711	-0.2382458297
11.000	-0.3433096360	-0.2910588919	-0.2667114550	-0.2578277273	-0.2550236588	-0.2434174616	-0.2377060051
11.200	-0.3432864008	-0.2906983506	-0.2664902554	-0.2579703690	-0.2546853214	-0.2428467736	-0.2371964483
11.400	-0.3432585001	-0.2903485812	-0.2663203128	-0.2580530242	-0.2543593470	-0.2422770978	-0.2367208683
11.600	-0.3432271807	-0.2900110651	-0.2661949566	-0.2580809640	-0.2540521366	-0.2417101070	-0.2362819621
11.800	-0.3431934705	-0.2898686877	-0.2661063731	-0.2580626303	-0.2537668503	-0.2411472645	-0.2358814723
12.000	-0.3431582168	-0.2893766988	-0.2660465251	-0.2580073330	-0.2535048943	-0.2405898747	-0.2355202503
12.200	-0.3431221091	-0.2890809573	-0.2660079133	-0.2579240171	-0.2532665818	-0.2400391111	-0.2351983380
12.400	-0.3430857075	-0.2887997949	-0.2659840595	-0.2578205650	-0.2530514910	-0.2394960312	-0.2349150715
12.600	-0.3430494634	-0.2885331601	-0.2659697033	-0.2577035384	-0.2528586902	-0.2389615873	-0.2346691940
12.800	-0.3430137339	-0.2882808356	-0.2659607861	-0.2575781453	-0.2526869029	-0.2384366178	-0.2344589634
13.000	-0.3429787960	-0.2880424731	-0.2659543364	-0.2574483746	-0.2525346408	-0.2379218587	-0.2342822669
13.200	-0.3429448661	-0.2878176364	-0.2659482879	-0.2573171850	-0.2524002947	-0.2374179644	-0.2341367189
13.400	-0.3429121045	-0.2876058122	-0.2659412864	-0.2571866972	-0.2522822122	-0.2369255112	-0.2340197344
13.600	-0.3428806216	-0.2874064558	-0.2659325194	-0.2570583788	-0.2521787525	-0.2364450655	-0.2339285801
13.800	-0.3428504983	-0.2872189790	-0.2659215946	-0.2569332098	-0.2520883336	-0.2359772405	-0.2338603656
14.000	-0.3428217805	-0.2870427968	-0.2659083847	-0.2568117994	-0.2520094572	-0.2355228934	-0.2338119180
14.200	-0.3427944857	-0.2868773151	-0.2658929688	-0.2566944964	-0.2519407220	-0.2350836272	-0.2337793424
14.400	-0.3427686194	-0.2867219552	-0.2658755442	-0.2565814593	-0.2518808434	-0.2346635984	-0.2337562279
14.600	-0.3427441631	-0.2865761430	-0.2658563917	-0.2564727214	-0.2518286452	-0.2342784430	-0.2337247596
14.800	-0.3427210877	-0.2864393279	-0.2658358116	-0.2563682284	-0.2517830680	-0.2340028653	-0.2336081482
15.000	-0.3426993534	-0.2863109769	-0.2658141279	-0.2562678714	-0.2517431623	-0.2339243553	-0.2333169518
15.200	-0.3426789146	-0.2861905825	-0.2657916474	-0.2561715154	-0.2517080824	-0.2339302919	-0.2329619356
15.400	-0.3426597174	-0.2860776551	-0.2657686588	-0.2560789999	-0.2516770784	-0.2339608379	-0.2326012337
15.600	-0.3426417064	-0.2859717337	-0.2657454206	-0.2559901623	-0.2516494928	-0.2340026051	-0.2322466604
15.800	-0.3426248233	-0.2858723805	-0.2657221615	-0.2559048422	-0.2516247456	-0.2340509759	-0.2319014361
16.200	-0.3425942044	-0.2856917415	-0.2656763503	-0.2557441390	-0.2515818300	-0.2341586885	-0.2312428716
16.400	-0.3425803508	-0.2856097036	-0.2656540986	-0.2556684746	-0.2515628483	-0.2342152374	-0.2309301856
16.600	-0.3425673897	-0.2855327226	-0.2656324420	-0.2555957669	-0.2515450715	-0.2342722404	-0.2306287153
16.800	-0.3425552678	-0.2854604810	-0.2656114628	-0.2555259025	-0.2515282258	-0.2343289215	-0.2303385054
17.000	-0.3425439321	-0.2853926814	-0.2655912289	-0.2554587830	-0.2515120826	-0.2343846514	-0.2300595912
17.200	-0.3425333306	-0.2853290433	-0.2655717915	-0.2553943226	-0.2514964457	-0.2344389064	-0.2297920179
17.400	-0.3425234182	-0.2852693136	-0.2655531821	-0.2553324419	-0.2514811604	-0.2344912572	-0.2295358259
17.600	-0.3425141468	-0.2852132453	-0.2655354175	-0.2552730683	-0.2514660981	-0.2345413568	-0.2292910961
17.800	-0.3425054752	-0.2851606158	-0.2655185095	-0.2552161380	-0.2514511537	-0.2345889296	-0.2290579182
18.000	-0.3424973655	-0.2851112205	-0.2655024510	-0.2551615930	-0.2514362512	-0.2346337601	-0.2288364006
18.600	-0.3424760317	-0.2849805063	-0.2654592897	-0.2550117074	-0.2513912768	-0.2347503871	-0.2282427769
19.000	-0.3424639888	-0.2849062287	-0.2654344844	-0.2549227055	-0.2513608299	-0.2348125501	-0.2279066458
19.200	-0.3424585370	-0.2848724924	-0.2654231957	-0.2548813141	-0.2513454565	-0.2348389114	-0.2277563069
19.400	-0.3424534328	-0.2848408406	-0.2654126113	-0.2548419224	-0.2513299996	-0.2348621682	-0.2276175210
19.800	-0.3424441745	-0.2847832920	-0.2653934189	-0.2547688889	-0.2512989146	-0.2348995913	-0.2273731692
20.000	-0.3424399814	-0.2847571592	-0.2653847536	-0.2547351239	-0.2512833405	-0.2349139148	-0.2272666324
20.400	-0.3424323757	-0.2847096461	-0.2653691269	-0.2546727776	-0.2512522747	-0.2349342629	-0.2270817600
20.600	-0.3424289303	-0.2846680690	-0.2653620988	-0.2546440657	-0.2512368490	-0.2349405020	-0.2270020174
21.600	-0.3424147093	-0.2845985558	-0.2653336922	-0.2545225382	-0.2511620447	-0.2349372549	-0.2267012982

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3	22.400 -0.3424062257 -0.2845447186 -0.2653174877 -0.2544480327 -0.2511066293 -0.2349010597 -0.2265402771
4	22.600 -0.3424044224 -0.2845332323 -0.2653141509 -0.2544320770 -0.2510935680 -0.2348884213 -0.2265069523
5	22.800 -0.3424027289 -0.2845224346 -0.2653110629 -0.2544170809 -0.2510808536 -0.2348745973 -0.2264756719
6	23.000 -0.3424011391 -0.2845122852 -0.2653082062 -0.2544029938 -0.2510684969 -0.2348597056 -0.2264461492
7	23.200 -0.3423996443 -0.2845027396 -0.2653055610 -0.2543897656 -0.2510565058 -0.2348438615 -0.2264181332
8	23.800 -0.3423956683 -0.2844773631 -0.2652987520 -0.2543547817 -0.2510227781 -0.2347917047 -0.2263411125
9	24.000 -0.3423944935 -0.2844698783 -0.2652968117 -0.2543445371 -0.2510122906 -0.2347731152 -0.2263171553
10	24.200 -0.3423933848 -0.2844628308 -0.2652950151 -0.2543349323 -0.2510021806 -0.2347540860 -0.2262939389
11	24.400 -0.3423923372 -0.2844561903 -0.2652933500 -0.2543259238 -0.2509924437 -0.2347347013 -0.2262712929
12	24.600 -0.3423913484 -0.2844499347 -0.2652918113 -0.2543174848 -0.2509830783 -0.2347150459 -0.2262491320
13	24.800 -0.3423904116 -0.2844440370 -0.2652903819 -0.2543095728 -0.2509740767 -0.2346951952 -0.2262273726
14	25.000 -0.3423895252 -0.2844384767 -0.2652890583 -0.2543021579 -0.2509654351 -0.2346752220 -0.2262059594
15	25.200 -0.3423886848 -0.2844332315 -0.2652878304 -0.2542952074 -0.2509571442 -0.2346551939 -0.2261848340
16	25.400 -0.3423878860 -0.2844282799 -0.2652866903 -0.2542886863 -0.2509491956 -0.2346351697 -0.2261639116
17	25.600 -0.3423871276 -0.2844236075 -0.2652856299 -0.2542825738 -0.2509415840 -0.2346152124 -0.2261432395
18	25.800 -0.3423864062 -0.2844191948 -0.2652846449 -0.2542768396 -0.2509342958 -0.2345953721 -0.2261227504
19	26.000 -0.3423857195 -0.2844150267 -0.2652837281 -0.2542714593 -0.2509273279 -0.2345756977 -0.2261024181
20	26.200 -0.3423850637 -0.2844110866 -0.2652828715 -0.2542664087 -0.2509206645 -0.2345562314 -0.2260822227
21	26.400 -0.3423844390 -0.2844073624 -0.2652820753 -0.2542616711 -0.2509142984 -0.2345370142 -0.2260621734
22	26.600 -0.3423838407 -0.2844038389 -0.2652813299 -0.2542572202 -0.2509082173 -0.2345180813 -0.2260422569
23	26.800 -0.3423832688 -0.2844005055 -0.2652806337 -0.2542530401 -0.2509024158 -0.2344994626 -0.2260224499
24	27.000 -0.3423827209 -0.2843973498 -0.2652799818 -0.2542491128 -0.2508968773 -0.2344811866 -0.2260027671
25	27.200 -0.3423821950 -0.2843943613 -0.2652793702 -0.2542454204 -0.2508915971 -0.2344632751 -0.2259832137
26	27.400 -0.3423816900 -0.2843915297 -0.2652787963 -0.2542419457 -0.2508865617 -0.2344457522 -0.2259637853
27	27.600 -0.3423812055 -0.2843888471 -0.2652782585 -0.2542386798 -0.2508817631 -0.2344286334 -0.2259444974
28	27.800 -0.3423807387 -0.2843863021 -0.2652777505 -0.2542356039 -0.2508771887 -0.2344119311 -0.2259253643
29	28.000 -0.3423802892 -0.2843838884 -0.2652772734 -0.2542327106 -0.2508728319 -0.2343956596 -0.2259063839
30	28.200 -0.3423798565 -0.2843815981 -0.2652768234 -0.2542299862 -0.2508686822 -0.2343798286 -0.2258875772
31	28.400 -0.3423794392 -0.2843794239 -0.2652763987 -0.2542274160 -0.2508647294 -0.2343644421 -0.2258689565
32	28.600 -0.3423790361 -0.2843773580 -0.2652759963 -0.2542249952 -0.2508609658 -0.2343495047 -0.2258505356
33	28.800 -0.3423786478 -0.2843753961 -0.2652756172 -0.2542227131 -0.2508573839 -0.2343350202 -0.2258323327
34	29.000 -0.3423782719 -0.2843735297 -0.2652752568 -0.2542205575 -0.2508539719 -0.2343209863 -0.2258143293
35	29.200 -0.3423779089 -0.2843717552 -0.2652749151 -0.2542185252 -0.2508507250 -0.2343074048 -0.2257965825
36	29.400 -0.3423775579 -0.2843700665 -0.2652745902 -0.2542166034 -0.2508476333 -0.2342942706 -0.2257790920
37	29.600 -0.3423772192 -0.2843684594 -0.2652742830 -0.2542147889 -0.2508446912 -0.2342815811 -0.2257618762
38	29.800 -0.3423768903 -0.2843669276 -0.2652739886 -0.2542130728 -0.2508418891 -0.2342693301 -0.2257449252
39	30.000 -0.3423765723 -0.2843654683 -0.2652737095 -0.2542114505 -0.2508392214 -0.2342575100 -0.2257282755
40	30.400 -0.3423759673 -0.2843627507 -0.2652731888 -0.2542084608 -0.2508342634 -0.2342351385 -0.2256958974
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Table 5: (1-8)³ Π

3.000	-0.2261764468	-0.1929540959	-0.1531878244	-0.1451898180	-0.1404821355	-0.1305712977	-0.1260689898	-0.1222284396
3.200	-0.2326832453	-0.1959191233	-0.1590794280	-0.1502620976	-0.1449352986	-0.1347450338	-0.1287338832	-0.1272570788
3.400	-0.2403717447	-0.2004678096	-0.1661031142	-0.1569697493	-0.1509672646	-0.1412099744	-0.1339251667	-0.1330225214
3.600	-0.2484704985	-0.2059299858	-0.1735022890	-0.1645962548	-0.1579036328	-0.1487818793	-0.1415280995	-0.1389384415
3.800	-0.2565499199	-0.2118942141	-0.1808420284	-0.1727125413	-0.1653399430	-0.1569111007	-0.1496602261	-0.1459893692
4.000	-0.2643598058	-0.2180923314	-0.1878796349	-0.1810294546	-0.1730024732	-0.1652775872	-0.1580321922	-0.1535910946
4.200	-0.2717461026	-0.2243374111	-0.1944899251	-0.1893255653	-0.1806832844	-0.1736564014	-0.1664190541	-0.1613630929
4.400	-0.2786084519	-0.2304889834	-0.2006247533	-0.1974113424	-0.1882116796	-0.1818670067	-0.1746316105	-0.1690686194
4.600	-0.2848793314	-0.2364341981	-0.2063378822	-0.2050663677	-0.1954436380	-0.1897562850	-0.1825084066	-0.1765403438
4.800	-0.2905147615	-0.2420796243	-0.2126304770	-0.2111764648	-0.2022600529	-0.1971967241	-0.1899165270	-0.1836486611
5.000	-0.2954907459	-0.2473496384	-0.2192549409	-0.2159223458	-0.2085682552	-0.2040894178	-0.1967549155	-0.1902897279
5.200	-0.2998016873	-0.2521877224	-0.2252998517	-0.2201904200	-0.2143032162	-0.2103664032	-0.2029564411	-0.1963845080
5.400	-0.3034587515	-0.2565576966	-0.2306839825	-0.2240739480	-0.2194267688	-0.2159900788	-0.2084868674	-0.2018820301
5.600	-0.3064874011	-0.2604433738	-0.2353958419	-0.2276255578	-0.2239259817	-0.2209497226	-0.2133408074	-0.2067606305
5.800	-0.3089242142	-0.2638463345	-0.2394514083	-0.2308854629	-0.2278147029	-0.2252563554	-0.2175357749	-0.2110237429
6.000	-0.3108135154	-0.2667825053	-0.2428841955	-0.2338722711	-0.2311392843	-0.2289376127	-0.2211058342	-0.2146943744
6.200	-0.3122041906	-0.2692782957	-0.2457387809	-0.2365808303	-0.2339743446	-0.2320337185	-0.2240958274	-0.2178084295
6.400	-0.3138896894	-0.2744718855	-0.2513504349	-0.2430192972	-0.2402255368	-0.2383254255	-0.2301030186	-0.2246046666
6.600	-0.3137846050	-0.2755643283	-0.2524130658	-0.2446749400	-0.2416912583	-0.2396005523	-0.2312925282	-0.2256044859
6.800	-0.3128360728	-0.2770102438	-0.2536294744	-0.2474457752	-0.2438255929	-0.2412031706	-0.2327433285	-0.2273508018
7.000	-0.3120679389	-0.2774293834	-0.2538805841	-0.2486031485	-0.2445303035	-0.2416133387	-0.2330896649	-0.2278353000
7.200	-0.3111482661	-0.2776851765	-0.2539634187	-0.2496122754	-0.2454604180	-0.2418115852	-0.2332335907	-0.2281132013
7.400	-0.3101061762	-0.2778034107	-0.2539468259	-0.2504480687	-0.2453695561	-0.2418296705	-0.2332079337	-0.2282245420
7.600	-0.3089677399	-0.2778069926	-0.2539347681	-0.2510443277	-0.2455442680	-0.2416956951	-0.2330418160	-0.2282139042
7.800	-0.3077562493	-0.2777160259	-0.2540631386	-0.2512986848	-0.2455888429	-0.2414344163	-0.2327610167	-0.2281363427
8.000	-0.3064925092	-0.2775479190	-0.2543890028	-0.2511843864	-0.2455232769	-0.2410674137	-0.2323876542	-0.2280632193
8.200	-0.3051950874	-0.2773175243	-0.2548341996	-0.2508073622	-0.2453647573	-0.2406135743	-0.2319410018	-0.2280790735
8.400	-0.3038805968	-0.2770372797	-0.2553107081	-0.2502812521	-0.2451278365	-0.2400893006	-0.2314375096	-0.2282471581
8.600	-0.3025638843	-0.2767173635	-0.2557732786	-0.2496750227	-0.2448247317	-0.2395087873	-0.2308911807	-0.2285653144
8.800	-0.3012582366	-0.2763658773	-0.2562032293	-0.2490292948	-0.2446656788	-0.2388842784	-0.2303140614	-0.2289775212
9.000	-0.2987262428	-0.2755914569	-0.2569435179	-0.2477199374	-0.2436130751	-0.2375438598	-0.2298610716	-0.2290972647
9.200	-0.2975196933	-0.2751763565	-0.2572532036	-0.2470914640	-0.2431336185	-0.2368447771	-0.2302516259	-0.2284796103
9.400	-0.2963638782	-0.2747459536	-0.2575247587	-0.2464975443	-0.2426271138	-0.2361358665	-0.2305851590	-0.2278593264
9.600	-0.2952655415	-0.2743017835	-0.2577604323	-0.2459471871	-0.2420994600	-0.2354232729	-0.2308500740	-0.2272416813
9.800	-0.2942301085	-0.2738450434	-0.2579624630	-0.2454466070	-0.2415563421	-0.2347128107	-0.2310398984	-0.2266300651
10.000	-0.2932616436	-0.2733769687	-0.2581328951	-0.2449993571	-0.2410032146	-0.2340104627	-0.2311509219	-0.2260268739
10.200	-0.2923627895	-0.2728991054	-0.2582734503	-0.2446064060	-0.2404452773	-0.2333232010	-0.2311806485	-0.2254336714
10.400	-0.2915347772	-0.2724135617	-0.2583854986	-0.2442663000	-0.2398875369	-0.2326608937	-0.2311254259	-0.2248513468
10.600	-0.2907774552	-0.2719231329	-0.2584700529	-0.2439754199	-0.2393349147	-0.2320410638	-0.2309751521	-0.22482801873
10.800	-0.2900893906	-0.2714313415	-0.2585278161	-0.2437283859	-0.2387923445	-0.2314966542	-0.2307049220	-0.2237200217
11.000	-0.2894680351	-0.2709423476	-0.2585592542	-0.2435186037	-0.2382647876	-0.2310556591	-0.2302948147	-0.2231703569
11.200	-0.2889099301	-0.2704607780	-0.2585646903	-0.2433388485	-0.2377571133	-0.2306799765	-0.2297905386	-0.2226305362
11.400	-0.2884109541	-0.2699914824	-0.2585444411	-0.2431818148	-0.2372738514	-0.2303112786	-0.2292572699	-0.2220998831
11.600	-0.2879665570	-0.2695392459	-0.2584989294	-0.2430405313	-0.2368188770	-0.2299237671	-0.2287268111	-0.2215778276
11.800	-0.2875719843	-0.2691084951	-0.2584288379	-0.2429086559	-0.2363950975	-0.2295119393	-0.2282099199	-0.2210640296
12.000	-0.2872224684	-0.2687030366	-0.2583352259	-0.2427806229	-0.2360042332	-0.2290788000	-0.2277082433	-0.2205584345
12.200	-0.2869133735	-0.2683258354	-0.2582196265	-0.2426517068	-0.2356467480	-0.2286318846	-0.2272184708	-0.2200612985
12.400	-0.2866403096	-0.2679788964	-0.2580840976	-0.2425180197	-0.2353219540	-0.2281818875	-0.2267337714	-0.2195731645
12.600	-0.2863991999	-0.2676631877	-0.2579311938	-0.2423764529	-0.2350282207	-0.2277415366	-0.2262449517	-0.2190948003
12.800	-0.2861863111	-0.2673787187	-0.2577639026	-0.2422246348	-0.2347632641	-0.2273235520	-0.2257424608	-0.2186271238
13.000	-0.2859982701	-0.2671246501	-0.2575855054	-0.2420608563	-0.2345244144	-0.2269377812	-0.2252192236	-0.2181711139
13.200	-0.2858320683	-0.2668994408	-0.2573994142	-0.2418840071	-0.2343088554	-0.2265890707	-0.2246727939	-0.2177277382
13.400	-0.2856850206	-0.2667010770	-0.2572089941	-0.2416935148	-0.2341137858	-0.2262773489	-0.2241052324	-0.2172978755
13.600	-0.2855547726	-0.2665272387	-0.2570174151	-0.2414892818	-0.2339365318	-0.2259994744	-0.2235213596	-0.2168823050
13.800	-0.2854392436	-0.2663754837	-0.2568275104	-0.2412716240	-0.2337746012	-0.2257511495	-0.2229268263	-0.2164816341
14.000	-0.2853366128	-0.2662433725	-0.2566417122	-0.2410412246	-0.2336257083	-0.2255281004	-0.2223270332	-0.2160963133
14.200	-0.2852452939	-0.2661285612	-0.2564619956	-0.2407990547	-0.2334877788	-0.2253265418	-0.2217267035	-0.2157266407
14.400	-0.2851639025	-0.2660288740	-0.2562898893	-0.2405463429	-0.2333589293	-0.2251432733	-0.2211298179	-0.2153727654
14.600	-0.2850912238	-0.2659423347	-0.2561264846	-0.2402845057	-0.2332374547	-0.2249756307	-0.2205397049	-0.2150347112
14.800	-0.2850262081	-0.2658671739	-0.2559724953	-0.2400151094	-0.2331217995	-0.2248214022	-0.2199591523	-0.2147123978
15.000	-0.2849679354	-0.2658018349	-0.2558283009	-0.2397398165	-0.2330105395	-0.2246787440	-0.2193905123	-0.2144056674
15.200	-0.2848685290	-0.2656953470	-0.2556950600	-0.2391784767	-0.2327960256	-0.2244221907	-0.2182966524	-0.2138380074
15.400	-0.2848260899	-0.2656520013	-0.2554545256	-0.2388959439	-0.2326903872	-0.2243058796	-0.2177745985	-0.2135765382
15.600	-0.2847877598	-0.2656140376	-0.2553486710	-0.2386144885	-0.2325843482	-0.2241962297	-0.2172708571	-0.2133295801
15.800	-0.2847530767	-0.2655807100	-0.2552514705	-0.2383358087	-0.2324768686	-0.2240924217	-0.2167864814	-0.2130968190
16.000	-0.2847216327	-0.2655513776	-0.2551624054	-0.2380615403	-0.2323669600	-0.2239937490	-0.2163223497	-0.2128779385
16.200	-0.2846930727	-0.2655254916	-0.2550809248	-0.2377932360	-0.2322536831	-0.2238995916	-0.2158791731	-0.2126726098
16.400	-0.2846670879	-0.2655025850	-0.2550064819	-0.2375323605	-0.2321361671	-0.2238094059	-0.2154575037	-0.2124804875
16.600	-0.2846434005	-0.2654822590	-0.2549385297	-0.2372802570	-0.2320136144	-0.2237227029	-0.2150577124	-0.2123011953
16.800	-0.2846217717	-0.2654641716	-0.2548765444	-0.2370381331	-0.2318853275	-0.2236390458	-0.2146800134	-0.2121343222
17.000	-0.2846019919	-0.2654480327	-0.2548200282	-0.2368070294	-0.2317507292	-0.2235580349	-0.2143244375	-0.2119794091
17.200	-0.2845838687	-0.2654335904	-0.2547685054	-0.2365878016	-0.2316093843	-0.2234792995	-0.2139908426	-0.2118359382

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3	18.400 -0.2845672411 -0.2654206334 -0.2547215395 -0.2363810953 -0.2314610323 -0.2234024943 -0.2136789141 -0.2117033408
4	18.600 -0.2845519587 -0.2654089748 -0.2546787207 -0.2361873343 -0.2313055948 -0.2233272900 -0.2133881597 -0.2115809847
5	18.800 -0.2845378935 -0.2653984600 -0.2546396763 -0.2360067143 -0.2311431932 -0.2232533703 -0.2131179329 -0.2114681851
6	19.000 -0.2845249289 -0.2653889510 -0.2546040576 -0.2358392090 -0.2309741415 -0.2231804293 -0.2128674553 -0.2113642212
7	19.200 -0.2845129628 -0.2653803331 -0.2545715516 -0.2356845874 -0.2307989354 -0.2231081623 -0.2126357882 -0.2112683283
8	19.400 -0.2845019037 -0.2653725029 -0.2545418724 -0.2355424316 -0.2306182223 -0.2230362645 -0.2124219264 -0.2111797206
9	19.600 -0.2844916674 -0.2653653739 -0.2545147555 -0.2354121897 -0.2304327987 -0.2229644546 -0.2122249067 -0.2110976536
10	19.800 -0.2844821820 -0.2653588693 -0.2544899654 -0.2352931951 -0.2302435430 -0.2228924367 -0.2120436174 -0.2110213661
11	20.000 -0.2844733816 -0.2653529241 -0.2544672857 -0.2351847079 -0.2300513744 -0.2228198863 -0.2118768416 -0.2109500685
12	20.200 -0.2844652072 -0.2653474802 -0.2544465253 -0.2350859560 -0.2298572660 -0.2227465130 -0.2117235381 -0.2108830700
13	20.400 -0.2844576054 -0.2653424867 -0.2544275033 -0.2349961547 -0.2296621769 -0.2226720117 -0.2115826513 -0.2108197033
14	20.600 -0.2844505274 -0.2653378990 -0.2544100626 -0.2349145374 -0.2294670529 -0.2225960791 -0.2114531594 -0.2107593479
15	20.800 -0.2844439312 -0.2653336782 -0.2543940583 -0.2348403637 -0.2292727950 -0.2225184118 -0.2113340952 -0.2107014383
16	21.000 -0.2844320291 -0.2653262027 -0.2543658518 -0.2347116259 -0.2288902219 -0.2223566707 -0.2111236703 -0.2105909826
17	21.200 -0.2844216293 -0.2653198263 -0.2543419820 -0.2346049878 -0.2285205382 -0.2221844592 -0.2109447418 -0.2104849838
18	21.400 -0.2844125075 -0.2653143601 -0.2543217123 -0.2345163166 -0.2281687796 -0.2219996830 -0.2107915276 -0.2103811277
19	21.600 -0.2844044804 -0.2653096546 -0.2543044367 -0.2344422513 -0.2278388709 -0.2218005504 -0.2106589467 -0.2102778243
20	21.800 -0.2844008269 -0.2653075470 -0.2542967627 -0.2344098265 -0.2276830309 -0.2216951677 -0.2105990373 -0.2102260295
21	22.000 -0.2843973910 -0.2653055842 -0.2542896578 -0.2343800808 -0.2275336252 -0.2215857487 -0.2105427793 -0.2101739771
22	22.200 -0.2843941582 -0.2653037556 -0.2542830753 -0.2343516311 -0.2273908363 -0.2214722259 -0.2104980339 -0.2101215422
23	22.400 -0.2843911132 -0.2653020487 -0.2542769700 -0.2343276394 -0.2272547793 -0.2213545672 -0.2104397984 -0.2100685894
24	22.600 -0.2843829813 -0.2652975665 -0.2542611333 -0.2342635197 -0.2268872604 -0.2209771247 -0.2103053847 -0.2099051652
25	22.800 -0.2843805683 -0.2652962573 -0.2542565703 -0.2342453462 -0.2267781139 -0.2208434672 -0.2102652104 -0.2098486750
26	23.000 -0.2843782877 -0.2652950280 -0.2542523188 -0.2342285390 -0.2266754335 -0.2207061307 -0.2102271532 -0.2097909492
27	23.200 -0.2843761304 -0.2652938718 -0.2542483499 -0.2342129790 -0.2265790308 -0.2205653080 -0.2101911399 -0.2097318769
28	23.400 -0.2843740907 -0.2652927854 -0.2542446467 -0.2341985616 -0.2264886871 -0.2204212132 -0.2101570454 -0.2096713621
29	23.600 -0.2843721579 -0.2652917602 -0.2542411835 -0.2341851851 -0.2264041576 -0.2202740769 -0.2101247749 -0.2096093338
30	23.800 -0.2843703278 -0.2652907944 -0.2542379450 -0.2341727669 -0.2263251845 -0.2201241481 -0.2100942364 -0.2095457374
31	24.000 -0.2843685929 -0.2652898813 -0.2542349126 -0.2341612249 -0.2262514947 -0.2199716772 -0.2100653322 -0.2094805373
32	24.200 -0.2843669464 -0.2652890172 -0.2542320680 -0.2341504876 -0.2261828050 -0.2198169160 -0.2100379793 -0.2094137141
33	24.400 -0.2843653846 -0.2652881991 -0.2542294015 -0.2341404902 -0.2261188384 -0.2196601249 -0.2100120817 -0.2093452636
34	24.600 -0.2843639019 -0.2652874234 -0.2542268972 -0.2341311745 -0.2260593133 -0.2195015523 -0.2099875574 -0.2092751900
35	24.800 -0.2843624935 -0.2652866870 -0.2542245452 -0.2341224867 -0.2260039539 -0.2193414439 -0.2099643187 -0.2092035085
36	25.000 -0.2843611537 -0.2652859855 -0.2542223308 -0.2341143762 -0.2259524937 -0.2191800357 -0.2099422910 -0.2091302442
37	25.200 -0.2843598811 -0.2652853191 -0.2542202483 -0.2341068003 -0.2259046733 -0.2190175482 -0.2099214010 -0.2090554271
38	25.400 -0.2843586690 -0.2652846822 -0.2542182854 -0.2340997164 -0.2258602475 -0.2188542342 -0.2099015759 -0.2089791161
39	25.600 -0.2843575157 -0.2652840747 -0.2542164346 -0.2340930892 -0.2258189816 -0.2186902213 -0.2098827478 -0.2089013088
40	25.800 -0.2843564175 -0.2652834942 -0.2542146899 -0.2340868837 -0.2257806518 -0.2185257316 -0.2098648559 -0.2088220756
41	26.000 -0.2843553707 -0.2652829380 -0.2542130414 -0.2340810676 -0.2257450489 -0.2183609383 -0.2098478455 -0.2087414694
42	26.200 -0.2843543726 -0.2652824051 -0.2542114836 -0.2340756139 -0.2257119763 -0.2181960043 -0.2098316633 -0.2086595475
43	26.400 -0.2843534216 -0.2652818947 -0.2542100122 -0.2340704961 -0.2256812517 -0.2180310807 -0.2098162605 -0.2085763731
44	26.600 -0.2843525135 -0.2652814038 -0.2542086185 -0.2340656896 -0.2256527026 -0.2178663018 -0.2098015910 -0.2084920140
45	26.800 -0.2843516465 -0.2652809317 -0.2542072999 -0.2340611726 -0.2256261669 -0.2177017887 -0.2097876119 -0.2084065451
46	27.000 -0.2843500290 -0.2652800412 -0.2542048671 -0.2340529278 -0.2255785597 -0.2173740200 -0.2097615728 -0.2082326244
47	27.200 -0.2843478606 -0.2652788222 -0.2542016679 -0.2340422710 -0.2255188843 -0.2168868936 -0.2097267851 -0.2079659373
48	27.400 -0.2843471998 -0.2652784438 -0.2542007068 -0.2340391158 -0.2255016747 -0.2167260396 -0.2097162081 -0.2078761179
49	27.600 -0.2843465672 -0.2652780784 -0.2541997941 -0.2340361362 -0.2254856431 -0.2165660534 -0.2097060945 -0.2077862534
50	27.800 -0.2843459624 -0.2652777262 -0.2541989266 -0.2340333224 -0.2254707036 -0.2164069925 -0.2096964244 -0.2076967869
51	28.000 -0.2843453818 -0.2652773842 -0.2541981000 -0.2340306613 -0.2254567754 -0.2162488972 -0.2096871700 -0.2076084610
52	28.200 -0.2843448258 -0.2652770541 -0.2541973142 -0.2340281463 -0.2254437869 -0.2160918145 -0.2096783101 -0.2075227627
53	28.400 -0.2843442933 -0.2652767352 -0.2541965657 -0.2340257644 -0.2254316682 -0.2159357840 -0.2096698291 -0.2074434324
54	28.600 -0.2843432930 -0.2652761279 -0.2541951732 -0.2340213742 -0.2254097926 -0.2156269881 -0.2096539251 -0.2073545135
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Table 6: $(1-5)^3\Delta$

3.000	-0.1874544242	-0.1383253389	-0.1330198033	-0.1254704690	-0.1209356157
3.200	-0.1894636002	-0.1426692354	-0.1362658258	-0.1299596883	-0.1252474624
3.400	-0.1933438692	-0.1486823651	-0.1415172894	-0.1357546733	-0.1313222087
3.600	-0.1983140824	-0.1556488972	-0.1481095408	-0.1418875040	-0.1384185486
3.800	-0.2039009972	-0.1631408730	-0.1556225502	-0.1479016573	-0.1460405658
4.000	-0.2097988580	-0.1708709703	-0.1636396914	-0.1544499749	-0.1531330923
4.200	-0.2157949919	-0.1786226234	-0.1718152057	-0.1623054533	-0.1588297874
4.400	-0.2217298096	-0.1862194466	-0.1798940835	-0.1701682081	-0.1646591658
4.600	-0.2274759384	-0.1935143171	-0.1876837394	-0.1777525355	-0.1711236316
4.800	-0.2329289625	-0.2003877772	-0.1950361258	-0.1849152903	-0.1777950910
5.000	-0.2380050166	-0.2067496757	-0.2018417416	-0.1915552595	-0.1843788572
5.200	-0.2426415131	-0.2125403006	-0.2080276035	-0.1976056709	-0.1907839095
5.400	-0.2467980407	-0.2177292058	-0.2135546472	-0.2030311713	-0.1965533965
5.600	-0.2504557809	-0.2223115184	-0.2184132138	-0.2078235571	-0.2016542953
5.800	-0.2536150560	-0.2263025888	-0.2226171470	-0.2119962288	-0.2060993768
6.000	-0.2562916464	-0.2297322049	-0.2261975886	-0.2155783448	-0.2099199648
6.200	-0.2585126776	-0.2326392920	-0.2291972930	-0.2186094320	-0.2131585000
6.800	-0.2628067575	-0.2386688724	-0.2352191045	-0.2248599313	-0.2198752016
7.000	-0.2635814536	-0.2399298510	-0.2364071211	-0.2261530486	-0.2212807926
7.400	-0.2643803818	-0.2415748692	-0.2378432629	-0.2278156397	-0.2231183509
7.600	-0.2644759372	-0.2420309724	-0.2381752704	-0.2282613226	-0.2236308781
7.800	-0.2644120326	-0.2422855088	-0.2382992366	-0.2284948447	-0.2239202753
8.000	-0.2642175291	-0.2423664904	-0.2382473492	-0.2285455586	-0.2240179389
8.200	-0.2639184802	-0.2422988413	-0.2380482065	-0.2284395645	-0.2239519866
8.400	-0.2635382093	-0.2421045842	-0.2377270800	-0.2281999763	-0.2237475121
8.600	-0.2630974117	-0.2418030795	-0.2373062278	-0.2278472180	-0.2234268682
8.800	-0.2626142625	-0.2414112830	-0.2368051586	-0.2273993202	-0.2230099330
9.000	-0.2621045426	-0.2409440434	-0.2362409122	-0.2268722163	-0.2225143848
9.200	-0.2615817393	-0.2404143723	-0.2356282928	-0.2262800076	-0.2219559441
9.400	-0.2610571760	-0.2398337292	-0.2349800913	-0.2256352155	-0.2213486093
9.800	-0.2600380009	-0.2385591793	-0.2336191707	-0.2242312808	-0.2200359073
10.000	-0.2595564223	-0.2378827070	-0.2329236072	-0.2234910445	-0.2193518158
10.200	-0.2590994915	-0.2371905247	-0.2322270726	-0.2227363250	-0.2186617805
10.400	-0.2586699437	-0.2364897777	-0.2315348285	-0.2219744024	-0.2179742915
10.600	-0.2582693438	-0.2357871920	-0.2308510306	-0.2212118711	-0.2172973312
10.800	-0.2578983038	-0.2350891358	-0.2301788415	-0.2204547318	-0.2166385675
11.000	-0.2575566579	-0.2344016171	-0.2295205276	-0.2197084475	-0.2160054937
11.200	-0.2572436511	-0.2337302639	-0.2288775937	-0.2189780141	-0.2154054993
11.400	-0.2569580894	-0.2330802501	-0.2282509013	-0.2182680292	-0.2148457636
11.600	-0.2566984769	-0.2324562092	-0.2276408204	-0.2175827646	-0.2143328389
11.800	-0.2564631319	-0.2318621171	-0.2270473903	-0.2169262720	-0.2138718135
12.000	-0.2562502729	-0.2313011887	-0.2264704822	-0.2163025126	-0.2134650558
12.200	-0.2560580933	-0.2307757803	-0.2259099481	-0.2157155351	-0.2131108760
12.400	-0.2558848118	-0.2302873451	-0.2253657419	-0.2151696832	-0.2128027636
12.600	-0.2557287151	-0.2298364310	-0.2248379804	-0.2146697498	-0.2125297546
12.800	-0.2555881739	-0.2294227420	-0.2243269621	-0.2142208759	-0.2122780292
13.000	-0.2554616715	-0.2290452500	-0.2238331280	-0.2138277472	-0.2120334448
13.200	-0.2553478032	-0.2287023487	-0.2233569986	-0.2134928031	-0.2117846811
13.400	-0.2552452816	-0.2283919996	-0.2228990837	-0.2132140431	-0.2115260842
13.600	-0.2551529336	-0.2281119033	-0.2224598058	-0.2129844101	-0.2112584673
13.800	-0.2550696960	-0.2278596197	-0.2220394387	-0.2127937316	-0.2109870185
14.000	-0.2549946164	-0.2276326897	-0.2216380583	-0.2126316722	-0.2107181233
14.200	-0.2549268328	-0.2274287060	-0.2212555255	-0.2124896636	-0.2104571815
14.400	-0.2548655782	-0.2272453800	-0.2208914938	-0.2123614052	-0.2102079137
14.600	-0.2548101626	-0.2270805675	-0.2205454168	-0.2122425761	-0.2099724800
14.800	-0.2547599732	-0.2269322950	-0.2202165744	-0.2121303434	-0.2097518586
15.000	-0.2547144628	-0.2267987620	-0.2199041229	-0.2120229231	-0.2095462124
15.200	-0.2546731458	-0.2266783484	-0.2196071144	-0.2119192332	-0.2093551760
15.400	-0.2546355840	-0.2265695940	-0.2193245359	-0.2118186590	-0.2091780553
15.600	-0.2546013956	-0.2264712006	-0.2190553452	-0.2117208793	-0.2090139686
15.800	-0.2545702350	-0.2263820134	-0.2187984982	-0.2116257645	-0.2088619430
16.200	-0.2545158097	-0.2262272957	-0.2183177629	-0.2114434996	-0.2085901183
16.400	-0.2544920308	-0.2261600689	-0.2180919435	-0.2113564540	-0.2084684075
16.600	-0.2544702441	-0.2260986318	-0.2178746239	-0.2112722204	-0.2083549804
16.800	-0.2544502574	-0.2260423679	-0.2176649855	-0.2111908625	-0.2082490401
17.000	-0.2544319000	-0.2259907368	-0.2174622730	-0.2111124269	-0.2081498625
17.600	-0.2543851457	-0.2258591572	-0.2168890841	-0.2108948080	-0.2078867717
18.200	-0.2543484138	-0.2257551872	-0.2163569386	-0.2107033022	-0.2076653743
18.400	-0.2543379586	-0.2257253891	-0.2161866370	-0.2106450335	-0.2075992029
18.800	-0.2543192815	-0.2256718259	-0.2158546205	-0.2105363898	-0.2074769236
19.000	-0.2543109372	-0.2256477247	-0.2156923580	-0.2104858410	-0.2074205331
19.200	-0.2543031835	-0.2256252131	-0.2155322766	-0.2104376875	-0.2073671992
19.400	-0.2542959725	-0.2256041621	-0.2153741747	-0.2103918349	-0.2074067949

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3	19.600 -0.2542892586 -0.2255844550 -0.2152178693 -0.2103481866 -0.2072696575
4	19.800 -0.2542830033 -0.2255659886 -0.2150632072 -0.2103066508 -0.2072255490
5	20.000 -0.2542771706 -0.2255486695 -0.2149100459 -0.2102671336 -0.2071846967
6	20.200 -0.2542717274 -0.2255324124 -0.2147582651 -0.2102295439 -0.2071472661
7	20.400 -0.2542666433 -0.2255171380 -0.2146077546 -0.2101937922 -0.2071134535
8	20.600 -0.2542618906 -0.2255027766 -0.2144584220 -0.2101597911 -0.2070834609
9	20.800 -0.2542574445 -0.2254892648 -0.2143101858 -0.2101274586 -0.2070574692
10	21.200 -0.2542493817 -0.2254645544 -0.2140167269 -0.2100674741 -0.2070178156
11	21.600 -0.2542422949 -0.2254425952 -0.2137269213 -0.2100132277 -0.2069939197
12	22.000 -0.2542360463 -0.2254230350 -0.2134404364 -0.2099641554 -0.2069832119
13	24.000 -0.2542139399 -0.2253521997 -0.2120523853 -0.2097800993 -0.2070193803
14	24.200 -0.2542123484 -0.2253470021 -0.2119175329 -0.2097661611 -0.2070255573
15	24.400 -0.2542108413 -0.2253420723 -0.2117834185 -0.2097528753 -0.2070317515
16	25.000 -0.2542067813 -0.2253287381 -0.2113856533 -0.2097166082 -0.2070500380
17	25.800 -0.2542022744 -0.2253138783 -0.2108666323 -0.2096755517 -0.2070728345
18	26.000 -0.2542012853 -0.2253106106 -0.2107390446 -0.2096664219 -0.2070781673
19	26.200 -0.2542003438 -0.2253075039 -0.2106123735 -0.2096576988 -0.2070833413
20	26.400 -0.2541994495 -0.2253045488 -0.2104866519 -0.2096493663 -0.2070883571
21	26.600 -0.2541985970 -0.2253017349 -0.2103619086 -0.2096414009 -0.2070932112
22	26.800 -0.2541977859 -0.2252990598 -0.2102381771 -0.2096337868 -0.2070979057
23	27.000 -0.2541970131 -0.2252965114 -0.2101154928 -0.2096265051 -0.2071024417
24	27.200 -0.2541962763 -0.2252940836 -0.2099938968 -0.2096195388 -0.2071068205
25	27.400 -0.2541955735 -0.2252917729 -0.2098734292 -0.2096128700 -0.2071110451
26	27.600 -0.2541949040 -0.2252895702 -0.2097541455 -0.2096064761 -0.2071151189
27	27.800 -0.2541942643 -0.2252874726 -0.2096362079 -0.2096002259 -0.2071190443
28	28.000 -0.2541936535 -0.2252854727 -0.2095946780 -0.2095190939 -0.2071228239
29	28.200 -0.2541930705 -0.2252835653 -0.2095890313 -0.2094036506 -0.2071264635
30	28.400 -0.2541925135 -0.2252817467 -0.2095836612 -0.2092895440 -0.2071299654
31	28.600 -0.2541919806 -0.2252800124 -0.2095785226 -0.2091768692 -0.2071333323
32	28.800 -0.2541914718 -0.2252783570 -0.2095736026 -0.2090657011 -0.2071365699
33	29.000 -0.2541909844 -0.2252767780 -0.2095688867 -0.2089561066 -0.2071396794
34	29.200 -0.2541905182 -0.2252752710 -0.2095643678 -0.2088481631 -0.2071426653
35	30.000 -0.2541888423 -0.2252698891 -0.2095480677 -0.2084345698 -0.2071534252
36	30.200 -0.2541884662 -0.2252686914 -0.2095443980 -0.2083361709 -0.2071558299
37	30.600 -0.2541877592 -0.2252664494 -0.2095374942 -0.2081460618 -0.2071603021
38	30.800 -0.2541874275 -0.2252654033 -0.2095342511 -0.2080545619 -0.2071623675
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