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On the Theory of the
Polarization of Nucleons by Deuterons

by

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ABSTRACT

In anticipation of the availability of the phase-shifts and mixing parameters, which are being calculated by Bransden, Smith and Tate for the elastic scattering of nucleons by deuterons (with tensor forces), the von Neuman density matrix and Racah algebra have been used to derive expressions for the average value of the spin operator in the emerging beam of nucleons after single and double scattering from unpolarized deuterons. The values of the geometrical factors which appear in these expressions have been calculated on an IBM-650 digital computing machine and are given in the form of tables. The range of the angular momentum quantum numbers has been chosen to cover nucleon-nucleon and nucleon-deuteron problems up to J , the total angular momentum, equal to five.

INTRODUCTION

Recently, experiments have been performed by White, Chisholm and Brown¹ to measure the polarization (i.e., the average value of the spin in the beam) of a beam of nucleons of low energy (a few Mev) after scattering by deuterons. The present report gives a theoretical method which could be employed to predict this polarization by assuming that the nuclear force between two nucleons has a tensor component.² It is hoped that the calculation will provide a sensitive test of the assumptions made about the character of the two-body nuclear force.

The non-relativistic scattering of nucleons by deuterons has been formulated by Bransden, Smith and Tate,³ who assumed the interaction between nucleons i and j to be of the form

$$V_{ij} = (m M_{ij} + b M_{ij} H_{ij} + h H_{ij} + w) V(|r_{ij}|) \\ + (m' M_{ij} + w') S(ij) U(|r_{ij}|) \quad (1)$$

These authors used Schrodinger's wave mechanics to obtain systems of coupled second-order integro-differential equations for functions $F_{ls}(|r|)$, which describe the radial motion of the impinging nucleon relative to the center of gravity of the target deuteron. The numerical integration of these systems of equations, to obtain the phase-shifts δ_{ls} and the mixing parameters,⁴ is currently being undertaken at University College London.

A knowledge of the phase shifts and mixing parameters will allow a determination of the polarization of a monoenergetic beam of identical free

nucleons after scattering by deuterons.

In Sec. I, a review of the general density-matrix method used in the problem will be presented. Section II outlines the simplifications in the general formulae for single and double scattering experiments. Section III contains the derivation of the expressions required in the problem of scattering nucleons from deuterons. Tables of the geometrical coefficients required in the problem are given in Secs. V, VI and VII.

I. THE DENSITY MATRIX^{5,6}

In general, a monoenergetic beam of identical free particles will be a statistical ensemble of different pure states. A pure spin state can be described by a state function χ_n . In the beam, the relative abundance of the pure state χ_n is P_n normalized such that

$$\sum_n P_n = 1, \quad (1.1)$$

where the sum is over all possible pure states χ_n .

In the reaction $a + b \rightarrow c + d$, the system before collision may be described by a density matrix ρ_{in} defined by⁷

$$\rho_{in} = \sum_n P_n \chi_n \chi_n^\dagger. \quad (1.2)$$

Here, χ_n is a column vector with $(2S_a + 1)(2S_b + 1)$ components, which represents one of the spin states of the combined system $a + b$, S_a being the spin of particle a .

Let T be a matrix which transforms every initial pure state into a corresponding final state. Then

$$T \rho_{in} T^\dagger = \rho_{out}. \quad (1.3)$$

To each pure state there corresponds an expectation value $(\chi_n Q_n \chi_n^\dagger)$ for a quantum mechanical operator Q . Thus, in the incident beam, the expectation value of any operator Q is given by⁸

$$\langle Q \rangle_{in} = \frac{\text{Tr} (\rho_{in} Q)}{\text{Tr} (\rho_{in})}. \quad (1.4)$$

From Eq. (1.2) it can be seen that ρ_{in} is a $[(2S_a + 1)(2S_b + 1)]^2$ matrix which can be expanded in terms of a set of $[(2S_a + 1)(2S_b + 1)]^2$ basic Hermitean matrices W_μ , which are called orthogonal if they satisfy the relations⁵

$$\text{Tr} (W_\mu W_\nu) = (2S_a + 1)(2S_b + 1) \delta_{\mu\nu}. \quad (1.5)$$

Performing the proposed expansion of ρ_{in} and using Eqs. (1.4) and (1.5) yields

$$\rho_{in} = \text{Tr} (\rho_{in}) / (2S_a + 1)(2S_b + 1) \times \sum_{\mu} \langle W_\mu \rangle_{in} W_\mu. \quad (1.6)$$

Thus, if the expectation values of all the basic operators in the incoming beam are known, then ρ_{in} is completely specified.

If the expression (1.6) for ρ_{in} is substituted into Eq. (1.3) and the trace is taken of the resulting equation multiplied by W_ν , then the use of Eq. (1.4)

leads to

$$\begin{aligned} < W_\nu >_{\text{out}} \text{Tr} (\rho_{\text{out}}) / \text{Tr} (\rho_{\text{in}}) = \\ \sum_{\mu} \text{Tr} (T W^\mu T^\dagger W^\nu) < W_\mu >_{\text{in}} / (2S_a + 1) (2S_b + 1). \end{aligned} \quad (1.7)$$

The differential cross section I is given by

$$I = \text{Tr} (\rho_{\text{out}}) / \text{Tr} (\rho_{\text{in}}). \quad (1.8)$$

Alternatively, taking the trace of Eq. (1.3) and using (1.6), yields

$$I = [(2S_a + 1) (2S_b + 1)]^{-1} \sum_{\mu} < W_\mu >_{\text{in}} \text{Tr} (T W_\mu T^\dagger). \quad (1.9)$$

Using Eqs. (1.8) and (1.9) in (1.7) gives the following expression for the expectation values of the basis operators W_ν in the outgoing beam.

$$< W_\nu >_{\text{out}} = \frac{\sum_{\mu} < W_\mu >_{\text{in}} \text{Tr} (T W_\mu T^\dagger W_\nu)}{\sum_{\lambda} < W_\lambda >_{\text{in}} \text{Tr} (T W_\lambda T^\dagger)} \quad (1.10)$$

Equations (1.9) and (1.10) give a complete description of all physically measurable quantities for the general reaction $a + b \rightarrow c + d$ in terms of the transition matrix T .⁸

II. SINGLE AND DOUBLE SCATTERING

When an unpolarized beam of nucleons (spin $\frac{1}{2}$) is scattered from a target (spin i), the emerging beam may be polarized (i.e., the spin directions of the particles in the scattered beam are not distributed isotropically). In Eq. (1.9) W_μ operates on the $(2S_a + 1)(2S_b + 1)$ -dimensional spin space of the initial particles a and b .

Except for the identity $W_\mu = 1$, the expectation values of all the W_μ vanish for an unpolarized beam incident on an unpolarized target. For this process, Eq. (1.9) yields the differential cross section

$$I_1 = \text{Tr} (T T^\dagger) / 2(2i + 1). \quad (2.1)$$

In the outgoing beam, the state of polarization is given by the expectation value of $\underline{\sigma} \times \underline{1}$, where $\underline{\sigma}$ is the Pauli spin operator for a nucleon, i.e.,

$$\langle \underline{\sigma} \times \underline{1} \rangle_{\text{out}} = \text{Tr} (T T^\dagger \underline{\sigma} \times \underline{1}) / 2(2i + 1) I_1 \quad (2.2)$$

If a polarized beam of nucleons is incident on unpolarized targets, then the only W_μ which will have non-zero expectation values before collision will be $\underline{1} \times \underline{1}$ and $\underline{\sigma} \times \underline{1}$. Hence the differential cross section, as given by Eq. (1.9) will be

$$I_2 = 1 / 2(2i + 1) \times [\text{Tr} (T T^\dagger) + \langle \underline{\sigma} \times \underline{1} \rangle_{\text{in}} \text{Tr} (T \underline{\sigma} \times \underline{1} T^\dagger)]. \quad (2.3)$$

The state of polarization of the emerging beam, as obtained from Eq. (1.10) is

$$\langle \underline{\sigma} \times \underline{1} \rangle_{\text{out}-2} = \frac{\text{Tr} (T T^+ \underline{\sigma} \times \underline{1}) + \langle \underline{\sigma} \times \underline{1} \rangle_{\text{in}} \text{Tr} (T \underline{\sigma} \times \underline{1} T^+ \underline{\sigma} \times \underline{1})}{2(2i+1) I_2} \quad (2.4)$$

If the polarized beam, produced by a single scattering, is scattered from a second target, then the state of polarization of the beam after the second scattering is given by Eq. (2.4) with

$$\langle \underline{\sigma} \times \underline{1} \rangle \equiv \langle \underline{\sigma} \times \underline{1} \rangle_{\text{out}-1} \quad (2.5)$$

Equations (2.1)-(2.4) have also been considered by Budianskii¹⁸ who has written out these equations explicitly for S- and P-waves.

III. NUCLEON-DEUTERON PROBLEM

For the scattering of an unpolarized beam of nucleons by unpolarized deuterons, the differential cross section obtained directly from Eq. (2.1) is

$$I_1 = \text{Tr} (T T^+) / 6. \quad (3.1)$$

The operator T will be written in the spin representation of the incident particles, its matrix being defined by^{9,10}

$$\psi_{\text{scatt}}(S' M_{S'}) = e^{ikr}/r \times \sum_{S M_S} (S' M_{S'} | T(\vartheta, \varphi) | S M_S) \times \chi(S M_S), \quad (3.2)$$

where the matrix representation of T is identical to the scattered amplitude $q_{S'M_{S'}}; S M_S (\vartheta \varphi)$, given in Blatt and Biedenharn's review article.⁴ The matrix elements of T are

$$\begin{aligned} (S'M_{S'} | T(\vartheta \varphi) | S M_S) &= i/k \sum \pi^{1/2} (2\ell + 1)^{1/2} \\ &\times (\ell S O M_S | J M_S) (\ell' S' \mu' M_{S'} | J M_S) Y_{\ell' \mu'}(\vartheta \varphi) \\ &\times (\delta_{S'S} \delta_{\ell'\ell} - S_{S'\ell'; S\ell}^J). \end{aligned} \quad (3.3)$$

The notation is identical with that of Blatt and Biedenharn. The second method of Huby¹¹ has been adopted to correct the formulae of Blatt and Biedenharn.

In Eq. (3.1) only the diagonal elements of the Hermitean operator $T T^+$ are required. Hence, when the Racah¹² sum rules are used for the products of three Clebsch-Gordon coefficients, the sum of the diagonal elements of $T T^+$ is given by

$$\begin{aligned} \sum_{S'M_{S'}} (S'M_{S'} | T T^+ | S'M_{S'}) &= 1/k^2 \sum \pi^{1/2} / 2 \times (\ell_2' \ell_1' / L)(L \ell_2 / \ell_1) \\ &\times W(J_1 \ell_1 J_2 \ell_2; S L) W(J_1 \ell_1' J_2 \ell_2'; S' L) \\ &\times \left[(2\ell_2 + 1)(2\ell_1' + 1)(2\ell_2' + 1)(2J_2 + 1)^2 (2J_1 + 1)^2 \right]^{1/2} \end{aligned}$$

$$\begin{aligned}
 & \times (-1)^{S'-S+l_2} (\delta_{SS'} \delta_{l_2 l_2'} - S_{S'l_2'}^{J_2}; S l_2) \\
 & \times \left(\delta_{SS'} \delta_{l_1 l_1'} - S_{S'l_1'}^{J_1}; S l_1 \right)^* Y_{LO}(\vartheta \psi) \\
 & \equiv 4k^2 \sum (-1)^{S'-S} P_L(\cos \theta) Z(l_1 J_1 l_2 J_2; SL) Z(l_1' J_1 l_2' J_2' S' L) \\
 & \times (\delta_{SS'} \delta_{l_2 l_2'} - S_{S'l_2'}^{J_2}; S l_2) (\delta_{SS'} \delta_{l_1 l_1'} - S_{S'l_1'}^{J_1}; S l_1)^* ,
 \end{aligned} \tag{3.4}$$

where (ab/c) is a Clebsch-Gordon coefficient with zero magnetic quantum numbers and $Z(l_1 J_1 l_2 J_2; SL)$ is a geometrical coefficient, defined by

$$\begin{aligned}
 Z(l_1 J_1 l_2 J_2; SL) &= \left[(2l_1+1)(2l_2+1)(2J_1+1)(2J_2+1) \right]^{\frac{1}{2}} \\
 &\times (l_1 l_2 / L) W(l_1 J_1 l_2 J_2; SL) .
 \end{aligned} \tag{3.5}$$

The state of polarization of the scattered beam is given by Eq. (2.2). This involves the diagonal elements of the operator $(T T' \underline{\sigma} \times \underline{1})$, i.e., in the spin representation,

$$\langle S' M_{S'} | T T' \underline{\sigma} \times \underline{1} | S' M_{S'} \rangle . \tag{3.6}$$

The explicit form of the T matrix has been stated in Eq. (3.3). When the Wigner-Eckart theorem¹⁴ and the tensor operator formalism of Racah¹²

are used, the matrix elements of $\underline{\sigma} \times \underline{1}$, a tensor operator of rank 1, are found to be¹⁰

$$(S M_S | \underline{\sigma} \times \underline{1} | S'' M_{S''}) = - \left[6(2S'' + 1) \right]^{1/2} (1 S'' M M_{S''} / S M_S) W(1 \frac{1}{2} S 1; \frac{1}{2} S'') \quad (3.7)$$

Hence,

$$\begin{aligned} \sum_{S' M_{S'}} (S' M_{S'} | T T^+ \underline{\sigma} \times \underline{1} | S' M_{S'}) &= (3\pi/2)^{1/2} k^{-2} \\ &\times \sum (-1)^{1/2 - S - S'' + J_1 - l'_2 + f} (\delta_{S'S} \delta_{l'_2 l_2} - S_{S'l'_2; S l_2}^{J_2}) \\ &\times (\delta_{S''S} \delta_{l'_1 l_1} - S_{S''l'_1; S l_1}^{J_1})^* (l'_1 l'_2 / L) W(\frac{1}{2} S'' \frac{1}{2} S'; 1 1) \\ &\times \left[(2l_1 + 1)(2l_2 + 1)(2l'_1 + 1)(2l'_2 + 1)(2S' + 1)(2L + 1)(2S'' + 1) \right]^{1/2} \\ &\times Y_L^M(\theta \psi) (2J_1 + 1)(2J_2 + 1) \delta_{fL} (2f + 1)^{1/2} (l_1 l_2 / f)(f 1 0 M / L M) \\ &\times W(l_1 J_1 l_2 J_2; S f) \begin{pmatrix} J_1 & l'_1 & S'' \\ J_2 & l'_2 & S' \\ f & L & 1 \end{pmatrix} \end{aligned} \quad (3.8)$$

The definition of Blatt and Biedenharn⁴ for Z includes the unwanted phase factor $(i)^{-l_1 + l_2 + L}$. The Z-coefficient has been calculated on an IBM-650 digital computer for those values of its parameters required in the n-d problem, and are given in Sec. V. The tabulation of this coefficient used a program for the Racah coefficient¹² written for another problem.¹³

Equation (3.8) is the same as the result of Simon and Welton¹⁰ except for a factor $\sqrt{3}$ (which arises because of a different definition of the spherical components of the tensor operator $(\underline{\sigma} \times \underline{1})_1^M$) and the omission of the superfluous phase factor $(i)^{\ell_2 - \ell_2' - \ell_1 + \ell_1'}$ [see Ref. 11].

The Cartesian components of $\underline{\sigma} \times \underline{1}$ can be obtained by using the explicit form of $(L1, 0M / LM)$, [see Ref. (15), p. 76], and choosing the same phase for $Y_L^M(\theta, \varphi)$ as Condon and Shortley.¹⁵ Hence,

$$\begin{aligned} \text{Tr} (T T^\dagger \underline{\sigma} \times \underline{1}) &= \underline{n} \sqrt{3} / 2k^2 \sum (-1)^{1/2} {}^{1/2} {}^{-S-S''+J_1-\ell_2'+L} \\ &\times \left[(2\ell_1+1)(2\ell_2+1)(2\ell_1'+1)(2\ell_2'+1)(2S'+1)(2S''+1) \right]^{1/2} (2J_1+1)(2J_2+1) \\ &\times (\ell_1' \ell_2' / L)(\ell_1 \ell_2 / L) W(1/2 S'' 1/2 S'; 1 1) W(\ell_1 J_1 \ell_2 J_2; S L) \\ &\times \begin{pmatrix} J_1 \ell_1' S'' \\ J_2 \ell_2' S' \\ L L 1 \end{pmatrix} \text{R.P.} \left[i(\delta_{S'S} \delta_{\ell_2' \ell_2} - S_{S' \ell_2'}^{J_2} S_{\ell_2}^{J_2}) (\delta_{S''S} \delta_{\ell_1' \ell_1} - S_{S'' \ell_1'}^{J_1} S_{\ell_1}^{J_1})^* \right] \\ &\times P_L^1(\cos \theta), \end{aligned} \quad (3.9)$$

where¹⁵

$$P_L^1(\cos \theta) = \left[\frac{2L+1}{2} \cdot \frac{(L-1)!}{(L+1)!} \right]^{1/2} \sin \theta \cdot \frac{d P_L(\cos \theta)}{(d \cos \theta)} \quad (3.10)$$

and $\underline{n}$ is the unit vector normal to the scattering plane.

The geometrical factors in Eq. (3.9) will be collected into a coefficient H , defined by

$$\begin{aligned} \text{Tr} (T T^+ \underline{\sigma} \times \underline{1}) &= \underline{n} \sqrt{3} / 2k^2 \sum H(J_1, S'' \ell_1', S \ell_1; J_2, S' \ell_2', S \ell_2; L) \\ &\times \text{R.P.} \left[i \left(\delta_{S'S} \delta_{\ell_2' \ell_2} - S_{S' \ell_2'; S \ell_2}^{J_2} \right) \left(\delta_{S''S} \delta_{\ell_1' \ell_1} - S_{S'' \ell_1'; S \ell_1}^J \right)^* \right] \\ &\times P_L^1(\cos \theta). \end{aligned} \quad (3.11)$$

If the emerging beam of polarized nucleons is scattered from a second target deuteron, the differential cross section for the process will be given by Eq. (2.3). The terms $\text{Tr}(T T^+)$ and $\langle \underline{\sigma} \times \underline{1} \rangle_{\text{in}}$ are given by Eqs. (3.4) and (3.7), respectively. The remaining factor to be calculated is ^{16,7}

$$\text{Tr} (T \underline{\sigma} \times \underline{1} T^+) \equiv \text{Tr} (T T^+ \underline{\sigma} \times \underline{1}) \quad (3.12)$$

and is also given by Eq. (3.8).

However, the state of polarization of the emerging beam, after the double scattering, requires the evaluation of

$$\text{Tr} (T \underline{\sigma} \times \underline{1} T^+ \underline{\sigma} \times \underline{1})$$

which appears in Eq. (2.4). $T \underline{\sigma} \times \underline{1} T^+ \underline{\sigma} \times \underline{1}$ is a tensor operator ¹² of rank one (magnetic component, M'); the trace of this operator can be evaluated by using Eqs. (3.3) and (3.6), the matrix elements of T and $\sigma \times 1$, respectively,

to obtain

$$\begin{aligned}
 & \text{Tr} (\underline{T} \underline{\sigma} \times \underline{1} \underline{T}^+ \underline{\sigma} \times \underline{1}) = \sum \sqrt{\pi} / k^2 \\
 & \times (-1)^{M-M'} \left[(2\ell_1 + 1)(2\ell_2 + 1)(2S_1 + 1)(2S_2 + 1)(2S_1' + 1)(2S_2' + 1)(2\ell_1' + 1) \right. \\
 & \times (2\ell_2' + 1) / (2r' + 1) \left. \right]^{1/2} (\delta_{S_1 S_1'} \delta_{\ell_1 \ell_1'} - S_{S_1 \ell_1}^{J_1}; S_1' \ell_1')^* \\
 & \times (\delta_{S_2 S_2'} \delta_{\ell_2 \ell_2'} - S_{S_2 \ell_2}^{J_2}; S_2' \ell_2') Y_{r'(\theta \phi)}^{M+M'} W\left(\frac{1}{2} S_1 \frac{1}{2} S_2; 1 \ 1\right) \\
 & \times W\left(\frac{1}{2} S_1' \frac{1}{2} S_2'; 1 \ 1\right) (\ell_1' \ell_2' / r') \\
 & \times \sum_{r, L} (2J_1 + 1)(2J_2 + 1) \left[(2L + 1)(2r' + 1) \right]^{1/2} (\ell_1 \ell_2 / r)(1LM - M / r o) \\
 & \times (r' \ 1 \ -M \ -M' \ M' / L \ -M) \begin{pmatrix} J_1 & \ell_1 & S_1 \\ L & r & 1 \\ J_2 & \ell_2 & S_2 \end{pmatrix} \begin{pmatrix} J_1 & \ell_1' & S_1' \\ L & r' & 1 \\ J_2 & \ell_2' & S_2' \end{pmatrix} \\
 & \times (-1)^{S_2' - S_2 + \ell_2' + \ell_2 + 1} \tag{3.13}
 \end{aligned}$$

The magnetic sums, which had to be performed, were the same as those in Eq. (2.9) of Simon's paper.¹⁷

Following Simon, the coordinate frame will be rotated through the Euler angles $(\phi \ \theta \ 0)$ in order to write Eq. (3.13) in a more symmetrical form using

the G-function¹⁷ defined by

$$G_K(J_1 S_1 \ell_1, J_2 S_2 \ell_2; L q) = \left[(2J_1 + 1)(2J_2 + 1)(2q + 1)(2L + 1) \right. \\ \left. \times (2\ell_1 + 1)(2\ell_2 + 1)(2S_1 + 1)(2S_2 + 1) \right]^{1/2} \sum_r (\ell_1 \ell_2 / r) (q L K - K / r o) \begin{pmatrix} J_1 \ell_1 S_1 \\ L r q \\ J_2 \ell_2 S_2 \end{pmatrix} \quad (3.14)$$

Thus

$$\text{Tr} (T, \underbrace{\sigma \times 1}_{\sim} T^+ \underbrace{\sigma \times 1}_{\sim}) = 1/2 k^2 \sum (-1)^{S_2' - S_2 + \ell_2' + \ell_2} \\ \times G_M(J_1 S_1 \ell_1, J_2 S_2 \ell_2, L 1) G_\mu(J_1 S_1' \ell_1', J_2 S_2' \ell_2', L 1) \\ \times W(\frac{1}{2} S_1 \frac{1}{2} S_2; 1 1) W(\frac{1}{2} S_1' \frac{1}{2} S_2'; 1 1) (-1)^{M - \mu'} D_{-M\mu'}^L(\phi \theta o) \\ \times (\delta_{S_1 S_1'} \delta_{\ell_1 \ell_1'} - S_{S_1 \ell_1}^{J_1} S_{S_1' \ell_1'}^*) (\delta_{S_2 S_2'} \delta_{\ell_2 \ell_2'} - S_{S_2 \ell_2}^{J_2} S_{S_2' \ell_2'}^*). \quad (3.15)$$

Numerical tables of the Racah coefficient are given in refs. (19) and (20).

Tables of the G-function are given in Sec. VII for $0 \leq J(0.5) \leq 4.5$.

IV

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TABLE OF Z-COEFFICIENTS

$$Z(\ell_1 J_1 \ell_2 J_2; S L) =$$

$$\left[(2\ell_1 + 1)(2\ell_2 + 1)(2J_1 + 1)(2J_2 + 1) \right]^{1/2} (\ell_1 \ell_2 / L) W(\ell_1 J_1 \ell_2 J_2; S L)$$

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
0.0	0.0	0.0	1.0	1.0	01.0	0.0	0.0	1.0	1.0	0.0	01.0	001.7320508
0.0	0.0	0.0	2.0	2.0	02.0	0.0	0.0	2.0	2.0	0.0	02.0	002.2360680
0.0	0.0	0.0	3.0	3.0	03.0	0.0	0.0	3.0	3.0	0.0	03.0	002.6457513
0.0	0.0	0.0	4.0	4.0	04.0	0.0	0.0	4.0	4.0	0.0	04.0	003.0000000
0.0	1.0	1.0	0.0	0.0	01.0	1.0	1.0	0.0	0.0	0.0	01.0	001.7320508
0.0	1.0	1.0	1.0	1.0	00.0	1.0	1.0	1.0	1.0	0.0	00.0	-001.7320508
0.0	1.0	1.0	1.0	1.0	02.0	1.0	1.0	1.0	1.0	0.0	02.0	002.4494897
0.0	1.0	1.0	2.0	2.0	01.0	1.0	1.0	2.0	2.0	0.0	01.0	-002.4494898
0.0	1.0	1.0	2.0	2.0	03.0	1.0	1.0	2.0	2.0	0.0	03.0	003.0000001
0.0	1.0	1.0	3.0	3.0	02.0	1.0	1.0	3.0	3.0	0.0	02.0	-003.0000000
0.0	1.0	1.0	3.0	3.0	04.0	1.0	1.0	3.0	3.0	0.0	04.0	003.4641017
0.0	1.0	1.0	4.0	4.0	03.0	1.0	1.0	4.0	4.0	0.0	03.0	-003.4641016
0.0	1.0	1.0	4.0	4.0	05.0	1.0	1.0	4.0	4.0	0.0	05.0	003.8729834
0.0	2.0	2.0	0.0	0.0	02.0	2.0	2.0	0.0	0.0	0.0	02.0	002.2360680
0.0	2.0	2.0	1.0	1.0	01.0	2.0	2.0	1.0	1.0	0.0	01.0	-002.4494898
0.0	2.0	2.0	1.0	1.0	03.0	2.0	2.0	1.0	1.0	0.0	03.0	003.0000001
0.0	2.0	2.0	2.0	2.0	00.0	2.0	2.0	2.0	2.0	0.0	00.0	002.2360680
0.0	2.0	2.0	2.0	2.0	02.0	2.0	2.0	2.0	2.0	0.0	02.0	-002.6726124
0.0	2.0	2.0	2.0	2.0	04.0	2.0	2.0	2.0	2.0	0.0	04.0	003.5856858
0.0	2.0	2.0	3.0	3.0	01.0	2.0	2.0	3.0	3.0	0.0	01.0	003.0000000
0.0	2.0	2.0	3.0	3.0	03.0	2.0	2.0	3.0	3.0	0.0	03.0	-003.0550505
0.0	2.0	2.0	3.0	3.0	05.0	2.0	2.0	3.0	3.0	0.0	05.0	004.0824829
0.0	2.0	2.0	4.0	4.0	02.0	2.0	2.0	4.0	4.0	0.0	02.0	003.5856859
0.0	2.0	2.0	4.0	4.0	04.0	2.0	2.0	4.0	4.0	0.0	04.0	-003.4188173
0.0	2.0	2.0	4.0	4.0	06.0	2.0	2.0	4.0	4.0	0.0	06.0	004.5226702
0.0	3.0	3.0	0.0	0.0	03.0	3.0	3.0	0.0	0.0	0.0	03.0	002.6457513
0.0	3.0	3.0	1.0	1.0	02.0	3.0	3.0	1.0	1.0	0.0	02.0	-003.0000000
0.0	3.0	3.0	1.0	1.0	04.0	3.0	3.0	1.0	1.0	0.0	04.0	003.4641017
0.0	3.0	3.0	2.0	2.0	01.0	3.0	3.0	2.0	2.0	0.0	01.0	003.0000000
0.0	3.0	3.0	2.0	2.0	03.0	3.0	3.0	2.0	2.0	0.0	03.0	-003.0550505
0.0	3.0	3.0	2.0	2.0	05.0	3.0	3.0	2.0	2.0	0.0	05.0	004.0824829
0.0	3.0	3.0	3.0	3.0	00.0	3.0	3.0	3.0	3.0	0.0	00.0	-002.6457513
0.0	3.0	3.0	3.0	3.0	02.0	3.0	3.0	3.0	3.0	0.0	02.0	003.0550505
0.0	3.0	3.0	3.0	3.0	04.0	3.0	3.0	3.0	3.0	0.0	04.0	-003.3844564
0.0	3.0	3.0	3.0	3.0	06.0	3.0	3.0	3.0	3.0	0.0	06.0	004.6056619
0.0	3.0	3.0	4.0	4.0	01.0	3.0	3.0	4.0	4.0	0.0	01.0	-003.4641016
0.0	3.0	3.0	4.0	4.0	03.0	3.0	3.0	4.0	4.0	0.0	03.0	003.3844565
0.0	3.0	3.0	4.0	4.0	05.0	3.0	3.0	4.0	4.0	0.0	05.0	-003.7210421
0.0	3.0	3.0	4.0	4.0	07.0	3.0	3.0	4.0	4.0	0.0	07.0	005.0694478
0.0	4.0	4.0	0.0	0.0	04.0	4.0	4.0	0.0	0.0	0.0	04.0	003.0000000
0.0	4.0	4.0	1.0	1.0	03.0	4.0	4.0	1.0	1.0	0.0	03.0	-003.4641016
0.0	4.0	4.0	1.0	1.0	05.0	4.0	4.0	1.0	1.0	0.0	05.0	003.8729834
0.0	4.0	4.0	2.0	2.0	02.0	4.0	4.0	2.0	2.0	0.0	02.0	003.5856859
0.0	4.0	4.0	2.0	2.0	04.0	4.0	4.0	2.0	2.0	0.0	04.0	-003.4188173
0.0	4.0	4.0	2.0	2.0	06.0	4.0	4.0	2.0	2.0	0.0	06.0	004.5226702
0.0	4.0	4.0	3.0	3.0	01.0	4.0	4.0	3.0	3.0	0.0	01.0	-003.4641016
0.0	4.0	4.0	3.0	3.0	03.0	4.0	4.0	3.0	3.0	0.0	03.0	003.3844565
0.0	4.0	4.0	3.0	3.0	05.0	4.0	4.0	3.0	3.0	0.0	05.0	-003.7210421
0.0	4.0	4.0	3.0	3.0	07.0	4.0	4.0	3.0	3.0	0.0	07.0	005.0694478
0.0	4.0	4.0	4.0	4.0	00.0	4.0	4.0	4.0	4.0	0.0	00.0	003.0000000
0.0	4.0	4.0	4.0	4.0	02.0	4.0	4.0	4.0	4.0	0.0	02.0	-003.4188173
0.0	4.0	4.0	4.0	4.0	04.0	4.0	4.0	4.0	4.0	0.0	04.0	003.6206203
0.0	4.0	4.0	4.0	4.0	06.0	4.0	4.0	4.0	4.0	0.0	06.0	-004.0451992
0.0	4.0	4.0	4.0	4.0	08.0	4.0	4.0	4.0	4.0	0.0	08.0	005.5533018
1.0	0.0	1.0	0.0	1.0	00.0	1.0	0.0	1.0	0.0	1.0	00.0	-001.0000000

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.0	0.0	1.0	1.0	0.0	01.0	1.0	0.0	0.0	1.0	1.0	01.0	001.0000000
1.0	0.0	1.0	1.0	2.0	01.0	1.0	0.0	2.0	1.0	1.0	01.0	-001.4142136
1.0	0.0	1.0	2.0	1.0	02.0	1.0	0.0	1.0	2.0	1.0	02.0	001.4142136
1.0	0.0	1.0	2.0	3.0	02.0	1.0	0.0	3.0	2.0	1.0	02.0	-001.7320508
1.0	0.0	1.0	3.0	2.0	03.0	1.0	0.0	2.0	3.0	1.0	03.0	001.7320508
1.0	0.0	1.0	3.0	4.0	03.0	1.0	0.0	4.0	3.0	1.0	03.0	-002.0000000
1.0	0.0	1.0	4.0	3.0	04.0	1.0	0.0	3.0	4.0	1.0	04.0	002.0000000
1.0	0.0	1.0	4.0	5.0	04.0	1.0	0.0	5.0	4.0	1.0	04.0	-002.2360680
1.0	1.0	0.0	0.0	1.0	01.0	0.0	1.0	1.0	0.0	1.0	01.0	001.0000000
1.0	1.0	0.0	1.0	0.0	00.0	0.0	1.0	0.0	1.0	1.0	00.0	001.7320508
1.0	1.0	0.0	1.0	1.0	01.0	0.0	1.0	1.0	1.0	1.0	01.0	001.7320508
1.0	1.0	0.0	1.0	2.0	02.0	0.0	1.0	2.0	1.0	1.0	02.0	001.7320508
1.0	1.0	0.0	2.0	1.0	01.0	0.0	1.0	1.0	2.0	1.0	01.0	002.2360680
1.0	1.0	0.0	2.0	2.0	02.0	0.0	1.0	2.0	2.0	1.0	02.0	002.2360680
1.0	1.0	0.0	2.0	3.0	03.0	0.0	1.0	3.0	2.0	1.0	03.0	002.2360680
1.0	1.0	0.0	3.0	2.0	02.0	0.0	1.0	2.0	3.0	1.0	02.0	002.6457514
1.0	1.0	0.0	3.0	3.0	03.0	0.0	1.0	3.0	3.0	1.0	03.0	002.6457513
1.0	1.0	0.0	3.0	4.0	04.0	0.0	1.0	4.0	3.0	1.0	04.0	002.6457513
1.0	1.0	0.0	4.0	3.0	03.0	0.0	1.0	3.0	4.0	1.0	03.0	003.0000000
1.0	1.0	0.0	4.0	4.0	04.0	0.0	1.0	4.0	4.0	1.0	04.0	003.0000000
1.0	1.0	0.0	4.0	5.0	05.0	0.0	1.0	5.0	4.0	1.0	05.0	003.0000000
1.0	1.0	1.0	1.0	0.0	01.0	1.0	1.0	0.0	1.0	1.0	01.0	001.7320508
1.0	1.0	1.0	1.0	1.0	00.0	1.0	1.0	1.0	1.0	1.0	00.0	001.7320508
1.0	1.0	1.0	1.0	1.0	02.0	1.0	1.0	1.0	1.0	1.0	02.0	001.2247449
1.0	1.0	1.0	1.0	2.0	01.0	1.0	1.0	2.0	1.0	1.0	01.0	001.2247449
1.0	1.0	1.0	2.0	1.0	02.0	1.0	1.0	1.0	2.0	1.0	02.0	002.1213204
1.0	1.0	1.0	2.0	2.0	01.0	1.0	1.0	2.0	2.0	1.0	01.0	002.1213204
1.0	1.0	1.0	2.0	2.0	03.0	1.0	1.0	2.0	2.0	1.0	03.0	001.7320508
1.0	1.0	1.0	2.0	3.0	02.0	1.0	1.0	3.0	2.0	1.0	02.0	001.7320508
1.0	1.0	1.0	3.0	2.0	03.0	1.0	1.0	2.0	3.0	1.0	03.0	002.4494898
1.0	1.0	1.0	3.0	3.0	02.0	1.0	1.0	3.0	3.0	1.0	02.0	002.4494898
1.0	1.0	1.0	3.0	3.0	04.0	1.0	1.0	3.0	3.0	1.0	04.0	002.1213204
1.0	1.0	1.0	3.0	4.0	03.0	1.0	1.0	4.0	3.0	1.0	03.0	002.1213204
1.0	1.0	1.0	4.0	3.0	04.0	1.0	1.0	3.0	4.0	1.0	04.0	002.7386128
1.0	1.0	1.0	4.0	4.0	03.0	1.0	1.0	4.0	4.0	1.0	03.0	002.7386128
1.0	1.0	1.0	4.0	4.0	05.0	1.0	1.0	4.0	4.0	1.0	05.0	002.4494898
1.0	1.0	1.0	4.0	5.0	04.0	1.0	1.0	5.0	4.0	1.0	04.0	002.4494898
1.0	1.0	2.0	0.0	1.0	01.0	2.0	1.0	1.0	0.0	1.0	01.0	-001.4142136
1.0	1.0	2.0	1.0	0.0	02.0	2.0	1.0	2.0	1.0	1.0	02.0	001.7320508
1.0	1.0	2.0	1.0	1.0	01.0	2.0	1.0	1.0	1.0	1.0	01.0	001.2247449
1.0	1.0	2.0	1.0	2.0	00.0	2.0	1.0	2.0	1.0	1.0	00.0	001.7320508
1.0	1.0	2.0	1.0	2.0	02.0	2.0	1.0	2.0	1.0	1.0	02.0	-001.2247449
1.0	1.0	2.0	2.0	1.0	01.0	2.0	1.0	1.0	2.0	1.0	01.0	-000.3162278
1.0	1.0	2.0	2.0	2.0	03.0	2.0	1.0	1.0	2.0	1.0	03.0	002.3237901
1.0	1.0	2.0	2.0	2.0	02.0	2.0	1.0	2.0	2.0	1.0	02.0	001.5811388
1.0	1.0	2.0	2.0	3.0	01.0	2.0	1.0	3.0	2.0	1.0	01.0	002.3237900
1.0	1.0	2.0	2.0	3.0	03.0	2.0	1.0	3.0	2.0	1.0	03.0	-001.2649111
1.0	1.0	2.0	3.0	2.0	02.0	2.0	1.0	2.0	3.0	1.0	02.0	-000.5345225
1.0	1.0	2.0	3.0	2.0	04.0	2.0	1.0	2.0	3.0	1.0	04.0	002.7774603
1.0	1.0	2.0	3.0	3.0	03.0	2.0	1.0	3.0	3.0	1.0	03.0	001.8708287
1.0	1.0	2.0	3.0	4.0	02.0	2.0	1.0	4.0	3.0	1.0	02.0	002.7774603
1.0	1.0	2.0	3.0	4.0	04.0	2.0	1.0	4.0	3.0	1.0	04.0	-001.3363062
1.0	1.0	2.0	4.0	3.0	03.0	2.0	1.0	3.0	4.0	1.0	03.0	-000.7071068
1.0	1.0	2.0	4.0	3.0	05.0	2.0	1.0	3.0	4.0	1.0	05.0	003.1622777
1.0	1.0	2.0	4.0	4.0	04.0	2.0	1.0	4.0	4.0	1.0	04.0	002.1213204

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.0	1.0	2.0	4.0	5.0	03.0	2.0	1.0	5.0	4.0	1.0	03.0	003.1622777
1.0	1.0	2.0	4.0	5.0	05.0	2.0	1.0	5.0	4.0	1.0	05.0	-001.4142136
1.0	2.0	1.0	0.0	1.0	02.0	1.0	2.0	1.0	0.0	1.0	02.0	001.4142136
1.0	2.0	1.0	1.0	0.0	01.0	1.0	2.0	0.0	1.0	1.0	01.0	002.2360680
1.0	2.0	1.0	1.0	1.0	02.0	1.0	2.0	1.0	1.0	1.0	02.0	002.1213204
1.0	2.0	1.0	1.0	2.0	01.0	1.0	2.0	2.0	1.0	1.0	01.0	-000.3162278
1.0	2.0	1.0	1.0	2.0	03.0	1.0	2.0	2.0	1.0	1.0	03.0	002.3237901
1.0	2.0	1.0	2.0	1.0	00.0	1.0	2.0	1.0	2.0	1.0	00.0	-002.2360680
1.0	2.0	1.0	2.0	1.0	02.0	1.0	2.0	1.0	2.0	1.0	02.0	001.8708287
1.0	2.0	1.0	2.0	2.0	01.0	1.0	2.0	2.0	2.0	1.0	01.0	-001.2247449
1.0	2.0	1.0	2.0	2.0	03.0	1.0	2.0	2.0	2.0	1.0	03.0	002.4494898
1.0	2.0	1.0	2.0	3.0	02.0	1.0	2.0	3.0	2.0	1.0	02.0	-000.6546537
1.0	2.0	1.0	2.0	3.0	04.0	1.0	2.0	3.0	2.0	1.0	04.0	002.9277002
1.0	2.0	1.0	3.0	2.0	01.0	1.0	2.0	2.0	3.0	1.0	01.0	-002.8982754
1.0	2.0	1.0	3.0	2.0	03.0	1.0	2.0	2.0	3.0	1.0	03.0	001.8973666
1.0	2.0	1.0	3.0	3.0	02.0	1.0	2.0	3.0	3.0	1.0	02.0	-001.7320508
1.0	2.0	1.0	3.0	3.0	04.0	1.0	2.0	3.0	3.0	1.0	04.0	002.7386128
1.0	2.0	1.0	3.0	4.0	03.0	1.0	2.0	4.0	3.0	1.0	03.0	-000.9128709
1.0	2.0	1.0	3.0	4.0	05.0	1.0	2.0	4.0	3.0	1.0	05.0	003.4156503
1.0	2.0	1.0	4.0	3.0	02.0	1.0	2.0	3.0	4.0	1.0	02.0	-003.4016803
1.0	2.0	1.0	4.0	3.0	04.0	1.0	2.0	3.0	4.0	1.0	04.0	001.9820624
1.0	2.0	1.0	4.0	4.0	03.0	1.0	2.0	4.0	4.0	1.0	03.0	-002.1213204
1.0	2.0	1.0	4.0	4.0	05.0	1.0	2.0	4.0	4.0	1.0	05.0	003.0000000
1.0	2.0	1.0	4.0	5.0	04.0	1.0	2.0	5.0	4.0	1.0	04.0	-001.1281522
1.0	2.0	1.0	4.0	5.0	06.0	1.0	2.0	5.0	4.0	1.0	06.0	003.8376129
1.0	2.0	2.0	1.0	0.0	02.0	2.0	2.0	0.0	1.0	1.0	02.0	002.2360680
1.0	2.0	2.0	1.0	1.0	01.0	2.0	2.0	1.0	1.0	1.0	01.0	002.1213204
1.0	2.0	2.0	1.0	1.0	03.0	2.0	2.0	1.0	1.0	1.0	03.0	001.7320508
1.0	2.0	2.0	1.0	2.0	02.0	2.0	2.0	2.0	1.0	1.0	02.0	001.5811388
1.0	2.0	2.0	2.0	1.0	01.0	2.0	2.0	1.0	2.0	1.0	01.0	-001.2247449
1.0	2.0	2.0	2.0	1.0	03.0	2.0	2.0	1.0	2.0	1.0	03.0	002.4494899
1.0	2.0	2.0	2.0	2.0	00.0	2.0	2.0	2.0	2.0	1.0	00.0	-002.2360680
1.0	2.0	2.0	2.0	2.0	02.0	2.0	2.0	2.0	2.0	1.0	02.0	001.3363062
1.0	2.0	2.0	2.0	2.0	04.0	2.0	2.0	2.0	2.0	1.0	04.0	002.3904572
1.0	2.0	2.0	2.0	3.0	01.0	2.0	2.0	3.0	2.0	1.0	01.0	-001.0000000
1.0	2.0	2.0	2.0	3.0	03.0	2.0	2.0	3.0	2.0	1.0	03.0	002.0000000
1.0	2.0	2.0	3.0	2.0	02.0	2.0	2.0	2.0	3.0	1.0	02.0	-001.6903085
1.0	2.0	2.0	3.0	2.0	04.0	2.0	2.0	2.0	3.0	1.0	04.0	002.6726124
1.0	2.0	2.0	3.0	3.0	01.0	2.0	2.0	3.0	3.0	1.0	01.0	-002.8284271
1.0	2.0	2.0	3.0	3.0	03.0	2.0	2.0	3.0	3.0	1.0	03.0	001.0801235
1.0	2.0	2.0	3.0	3.0	05.0	2.0	2.0	3.0	3.0	1.0	05.0	002.8867514
1.0	2.0	2.0	3.0	4.0	02.0	2.0	2.0	4.0	3.0	1.0	02.0	-001.4638501
1.0	2.0	2.0	3.0	4.0	04.0	2.0	2.0	4.0	3.0	1.0	04.0	002.3145503
1.0	2.0	2.0	4.0	3.0	03.0	2.0	2.0	3.0	4.0	1.0	03.0	-002.0412415
1.0	2.0	2.0	4.0	3.0	05.0	2.0	2.0	3.0	4.0	1.0	05.0	002.8867514
1.0	2.0	2.0	4.0	4.0	02.0	2.0	2.0	4.0	4.0	1.0	02.0	-003.2732684
1.0	2.0	2.0	4.0	4.0	04.0	2.0	2.0	4.0	4.0	1.0	04.0	000.9362817
1.0	2.0	2.0	4.0	4.0	06.0	2.0	2.0	4.0	4.0	1.0	06.0	003.3028913
1.0	2.0	2.0	4.0	5.0	03.0	2.0	2.0	5.0	4.0	1.0	03.0	-001.8257419
1.0	2.0	2.0	4.0	5.0	05.0	2.0	2.0	5.0	4.0	1.0	05.0	002.5819889
1.0	2.0	3.0	0.0	1.0	02.0	3.0	2.0	1.0	0.0	1.0	02.0	-001.7320508
1.0	2.0	3.0	1.0	0.0	03.0	3.0	2.0	0.0	1.0	1.0	03.0	002.2360680
1.0	2.0	3.0	1.0	1.0	02.0	3.0	2.0	1.0	1.0	1.0	02.0	001.7320508
1.0	2.0	3.0	1.0	2.0	01.0	3.0	2.0	2.0	1.0	1.0	01.0	002.3237900
1.0	2.0	3.0	1.0	2.0	03.0	3.0	2.0	2.0	1.0	1.0	03.0	-001.2649111

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L	Z
1.0	2.0	3.0	2.0	1.0	02.0	3.0	2.0	1.0	2.0	1.0	02.0	-000.6546537
1.0	2.0	3.0	2.0	1.0	04.0	3.0	2.0	1.0	2.0	1.0	04.0	002.9277002
1.0	2.0	3.0	2.0	2.0	01.0	3.0	2.0	2.0	2.0	1.0	01.0	-001.0000000
1.0	2.0	3.0	2.0	2.0	03.0	3.0	2.0	2.0	2.0	1.0	03.0	002.0000000
1.0	2.0	3.0	2.0	3.0	00.0	3.0	2.0	3.0	2.0	1.0	00.0	-002.2360680
1.0	2.0	3.0	2.0	3.0	02.0	3.0	2.0	3.0	2.0	1.0	02.0	002.1380899
1.0	2.0	3.0	2.0	3.0	04.0	3.0	2.0	3.0	2.0	1.0	04.0	-001.1952286
1.0	2.0	3.0	3.0	2.0	01.0	3.0	2.0	2.0	3.0	1.0	01.0	000.1690309
1.0	2.0	3.0	3.0	2.0	03.0	3.0	2.0	2.0	3.0	1.0	03.0	-001.0327956
1.0	2.0	3.0	3.0	2.0	05.0	3.0	2.0	2.0	3.0	1.0	05.0	003.4503278
1.0	2.0	3.0	3.0	3.0	02.0	3.0	2.0	3.0	3.0	1.0	02.0	-001.4142136
1.0	2.0	3.0	3.0	3.0	04.0	3.0	2.0	3.0	3.0	1.0	04.0	002.2360680
1.0	2.0	3.0	3.0	4.0	01.0	3.0	2.0	4.0	3.0	1.0	01.0	-002.9277002
1.0	2.0	3.0	3.0	4.0	03.0	3.0	2.0	4.0	3.0	1.0	03.0	002.2360680
1.0	2.0	3.0	3.0	4.0	05.0	3.0	2.0	4.0	3.0	1.0	05.0	-001.1952286
1.0	2.0	3.0	4.0	3.0	02.0	3.0	2.0	3.0	4.0	1.0	02.0	000.3086067
1.0	2.0	3.0	4.0	3.0	04.0	3.0	2.0	3.0	4.0	1.0	04.0	-001.3241022
1.0	2.0	3.0	4.0	3.0	06.0	3.0	2.0	3.0	4.0	1.0	06.0	003.8924947
1.0	2.0	3.0	4.0	4.0	03.0	3.0	2.0	4.0	4.0	1.0	03.0	-001.7320508
1.0	2.0	3.0	4.0	4.0	05.0	3.0	2.0	4.0	4.0	1.0	05.0	002.4494898
1.0	2.0	3.0	4.0	5.0	02.0	3.0	2.0	5.0	4.0	1.0	02.0	-003.4503278
1.0	2.0	3.0	4.0	5.0	04.0	3.0	2.0	5.0	4.0	1.0	04.0	002.3686261
1.0	2.0	3.0	4.0	5.0	06.0	3.0	2.0	5.0	4.0	1.0	06.0	-001.2185436
1.0	3.0	2.0	0.0	1.0	03.0	2.0	3.0	1.0	0.0	1.0	03.0	001.7320508
1.0	3.0	2.0	1.0	0.0	02.0	2.0	3.0	0.0	1.0	1.0	02.0	002.6457514
1.0	3.0	2.0	1.0	1.0	03.0	2.0	3.0	1.0	1.0	1.0	03.0	002.4494898
1.0	3.0	2.0	1.0	2.0	02.0	2.0	3.0	2.0	1.0	1.0	02.0	-000.5345225
1.0	3.0	2.0	1.0	2.0	04.0	2.0	3.0	2.0	1.0	1.0	04.0	002.7774603
1.0	3.0	2.0	2.0	1.0	01.0	2.0	3.0	1.0	2.0	1.0	01.0	-002.8982754
1.0	3.0	2.0	2.0	1.0	03.0	2.0	3.0	1.0	2.0	1.0	03.0	001.8973666
1.0	3.0	2.0	2.0	2.0	02.0	2.0	3.0	2.0	2.0	1.0	02.0	-001.6903085
1.0	3.0	2.0	2.0	2.0	04.0	2.0	3.0	2.0	2.0	1.0	04.0	002.6726124
1.0	3.0	2.0	2.0	3.0	01.0	2.0	3.0	3.0	2.0	1.0	01.0	000.1690309
1.0	3.0	2.0	2.0	3.0	03.0	2.0	3.0	3.0	2.0	1.0	03.0	-001.0327956
1.0	3.0	2.0	2.0	3.0	05.0	2.0	3.0	3.0	2.0	1.0	05.0	003.4503278
1.0	3.0	2.0	3.0	2.0	00.0	2.0	3.0	2.0	3.0	1.0	00.0	002.6457513
1.0	3.0	2.0	3.0	2.0	02.0	2.0	3.0	2.0	3.0	1.0	02.0	-002.6186147
1.0	3.0	2.0	3.0	2.0	04.0	2.0	3.0	2.0	3.0	1.0	04.0	001.7728105
1.0	3.0	2.0	3.0	3.0	01.0	2.0	3.0	3.0	3.0	1.0	01.0	001.0000000
1.0	3.0	2.0	3.0	3.0	03.0	2.0	3.0	3.0	3.0	1.0	03.0	-002.1602469
1.0	3.0	2.0	3.0	3.0	05.0	2.0	3.0	3.0	3.0	1.0	05.0	002.8867514
1.0	3.0	2.0	3.0	4.0	02.0	2.0	3.0	4.0	3.0	1.0	02.0	000.2779645
1.0	3.0	2.0	3.0	4.0	04.0	2.0	3.0	4.0	3.0	1.0	04.0	-001.3957262
1.0	3.0	2.0	3.0	4.0	06.0	2.0	3.0	4.0	3.0	1.0	06.0	003.9886202
1.0	3.0	2.0	4.0	3.0	01.0	2.0	3.0	3.0	4.0	1.0	01.0	003.4016803
1.0	3.0	2.0	4.0	3.0	03.0	2.0	3.0	3.0	4.0	1.0	03.0	-002.7080128
1.0	3.0	2.0	4.0	3.0	05.0	2.0	3.0	3.0	4.0	1.0	05.0	001.7593289
1.0	3.0	2.0	4.0	4.0	02.0	2.0	3.0	4.0	4.0	1.0	02.0	001.4638501
1.0	3.0	2.0	4.0	4.0	04.0	2.0	3.0	4.0	4.0	1.0	04.0	-002.5123074
1.0	3.0	2.0	4.0	4.0	06.0	2.0	3.0	4.0	4.0	1.0	06.0	003.0895719
1.0	3.0	2.0	4.0	5.0	03.0	2.0	3.0	5.0	4.0	1.0	03.0	000.5504219
1.0	3.0	2.0	4.0	5.0	05.0	2.0	3.0	5.0	4.0	1.0	05.0	-001.6946371
1.0	3.0	2.0	4.0	5.0	07.0	2.0	3.0	5.0	4.0	1.0	07.0	004.4525470
1.0	3.0	3.0	1.0	0.0	03.0	3.0	3.0	0.0	1.0	1.0	03.0	002.6457513
1.0	3.0	3.0	1.0	1.0	02.0	3.0	3.0	1.0	1.0	1.0	02.0	002.4494898

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.0	3.0	3.0	1.0	1.0	04.0	3.0	3.0	1.0	1.0	1.0	04.0	002.1213204
1.0	3.0	3.0	1.0	2.0	03.0	3.0	3.0	2.0	1.0	1.0	03.0	001.8708287
1.0	3.0	3.0	2.0	1.0	02.0	3.0	3.0	1.0	2.0	1.0	02.0	-001.7320508
1.0	3.0	3.0	2.0	1.0	04.0	3.0	3.0	1.0	2.0	1.0	04.0	002.7386128
1.0	3.0	3.0	2.0	2.0	01.0	3.0	3.0	2.0	2.0	1.0	01.0	-002.8284271
1.0	3.0	3.0	2.0	2.0	03.0	3.0	3.0	2.0	2.0	1.0	03.0	001.0801235
1.0	3.0	3.0	2.0	2.0	05.0	3.0	3.0	2.0	2.0	1.0	05.0	002.8867514
1.0	3.0	3.0	2.0	3.0	02.0	3.0	3.0	3.0	2.0	1.0	02.0	-001.4142136
1.0	3.0	3.0	2.0	3.0	04.0	3.0	3.0	3.0	2.0	1.0	04.0	002.2360680
1.0	3.0	3.0	3.0	2.0	01.0	3.0	3.0	2.0	3.0	1.0	01.0	001.0000000
1.0	3.0	3.0	3.0	2.0	03.0	3.0	3.0	2.0	3.0	1.0	03.0	-002.1602469
1.0	3.0	3.0	3.0	2.0	05.0	3.0	3.0	2.0	3.0	1.0	05.0	002.8867514
1.0	3.0	3.0	3.0	3.0	00.0	3.0	3.0	3.0	3.0	1.0	00.0	002.6457513
1.0	3.0	3.0	3.0	3.0	02.0	3.0	3.0	3.0	3.0	1.0	02.0	-002.2912878
1.0	3.0	3.0	3.0	3.0	04.0	3.0	3.0	3.0	3.0	1.0	04.0	000.5640761
1.0	3.0	3.0	3.0	3.0	06.0	3.0	3.0	3.0	3.0	1.0	06.0	003.4542464
1.0	3.0	3.0	3.0	4.0	01.0	3.0	3.0	4.0	3.0	1.0	01.0	000.8660254
1.0	3.0	3.0	3.0	4.0	03.0	3.0	3.0	4.0	3.0	1.0	03.0	-001.8708287
1.0	3.0	3.0	3.0	4.0	05.0	3.0	3.0	4.0	3.0	1.0	05.0	002.5000000
1.0	3.0	3.0	4.0	3.0	02.0	3.0	3.0	3.0	4.0	1.0	02.0	001.4433757
1.0	3.0	3.0	4.0	3.0	04.0	3.0	3.0	3.0	4.0	1.0	04.0	-002.4771636
1.0	3.0	3.0	4.0	3.0	06.0	3.0	3.0	3.0	4.0	1.0	06.0	003.0463590
1.0	3.0	3.0	4.0	4.0	01.0	3.0	3.0	4.0	4.0	1.0	01.0	003.3541020
1.0	3.0	3.0	4.0	4.0	03.0	3.0	3.0	4.0	4.0	1.0	03.0	-002.1846573
1.0	3.0	3.0	4.0	4.0	05.0	3.0	3.0	4.0	4.0	1.0	05.0	000.2401922
1.0	3.0	3.0	4.0	4.0	07.0	3.0	3.0	4.0	4.0	1.0	07.0	003.9267774
1.0	3.0	3.0	4.0	5.0	02.0	3.0	3.0	5.0	4.0	1.0	02.0	001.2909945
1.0	3.0	3.0	4.0	5.0	04.0	3.0	3.0	5.0	4.0	1.0	04.0	-002.2156468
1.0	3.0	3.0	4.0	5.0	06.0	3.0	3.0	5.0	4.0	1.0	06.0	002.7247463
1.0	3.0	4.0	0.0	1.0	03.0	4.0	3.0	1.0	0.0	1.0	03.0	-002.0000000
1.0	3.0	4.0	1.0	0.0	04.0	4.0	3.0	0.0	1.0	1.0	04.0	002.6457513
1.0	3.0	4.0	1.0	1.0	03.0	4.0	3.0	1.0	1.0	1.0	03.0	002.1213204
1.0	3.0	4.0	1.0	2.0	02.0	4.0	3.0	2.0	1.0	1.0	02.0	002.7774603
1.0	3.0	4.0	1.0	2.0	04.0	4.0	3.0	2.0	1.0	1.0	04.0	-001.3363062
1.0	3.0	4.0	2.0	1.0	03.0	4.0	3.0	1.0	2.0	1.0	03.0	-000.9128709
1.0	3.0	4.0	2.0	1.0	05.0	4.0	3.0	1.0	2.0	1.0	05.0	003.4156503
1.0	3.0	4.0	2.0	2.0	02.0	4.0	3.0	2.0	2.0	1.0	02.0	-001.4638501
1.0	3.0	4.0	2.0	2.0	04.0	4.0	3.0	2.0	2.0	1.0	04.0	002.3145504
1.0	3.0	4.0	2.0	3.0	01.0	4.0	3.0	3.0	2.0	1.0	01.0	-002.9277002
1.0	3.0	4.0	2.0	3.0	03.0	4.0	3.0	3.0	2.0	1.0	03.0	002.2360680
1.0	3.0	4.0	2.0	3.0	05.0	4.0	3.0	3.0	2.0	1.0	05.0	-001.1952286
1.0	3.0	4.0	3.0	2.0	02.0	4.0	3.0	2.0	3.0	1.0	02.0	000.3779645
1.0	3.0	4.0	3.0	2.0	04.0	4.0	3.0	2.0	3.0	1.0	04.0	-001.3957263
1.0	3.0	4.0	3.0	2.0	06.0	4.0	3.0	2.0	3.0	1.0	06.0	003.9886202
1.0	3.0	4.0	3.0	3.0	01.0	4.0	3.0	3.0	3.0	1.0	01.0	000.8660254
1.0	3.0	4.0	3.0	3.0	03.0	4.0	3.0	3.0	3.0	1.0	03.0	-001.8708287
1.0	3.0	4.0	3.0	3.0	05.0	4.0	3.0	3.0	3.0	1.0	05.0	002.5000000
1.0	3.0	4.0	3.0	4.0	00.0	4.0	3.0	4.0	3.0	1.0	00.0	002.6457513
1.0	3.0	4.0	3.0	4.0	02.0	4.0	3.0	4.0	3.0	1.0	02.0	-002.7277236
1.0	3.0	4.0	3.0	4.0	04.0	4.0	3.0	4.0	3.0	1.0	04.0	002.1757220
1.0	3.0	4.0	3.0	4.0	06.0	4.0	3.0	4.0	3.0	1.0	06.0	-001.1514155
1.0	3.0	4.0	4.0	3.0	01.0	4.0	3.0	3.0	4.0	1.0	01.0	-000.1091089
1.0	3.0	4.0	4.0	3.0	03.0	4.0	3.0	3.0	4.0	1.0	03.0	000.6396021
1.0	3.0	4.0	4.0	3.0	05.0	4.0	3.0	3.0	4.0	1.0	05.0	-001.7580271
1.0	3.0	4.0	4.0	3.0	07.0	4.0	3.0	3.0	4.0	1.0	07.0	004.4708327

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.0	3.0	4.0	4.0	4.0	02.0	4.0	3.0	4.0	4.0	1.0	02.0	001.2677314
1.0	3.0	4.0	4.0	4.0	04.0	4.0	3.0	4.0	4.0	1.0	04.0	-002.1757220
1.0	3.0	4.0	4.0	4.0	06.0	4.0	3.0	4.0	4.0	1.0	06.0	002.6756478
1.0	3.0	4.0	4.0	5.0	01.0	4.0	3.0	5.0	4.0	1.0	01.0	003.4156503
1.0	3.0	4.0	4.0	5.0	03.0	4.0	3.0	5.0	4.0	1.0	03.0	-002.8603878
1.0	3.0	4.0	4.0	5.0	05.0	4.0	3.0	5.0	4.0	1.0	05.0	002.2013982
1.0	3.0	4.0	4.0	5.0	07.0	4.0	3.0	5.0	4.0	1.0	07.0	-001.1425241
1.0	4.0	3.0	0.0	1.0	04.0	3.0	4.0	1.0	0.0	1.0	04.0	002.0000000
1.0	4.0	3.0	1.0	0.0	03.0	3.0	4.0	0.0	1.0	1.0	03.0	003.0000000
1.0	4.0	3.0	1.0	1.0	04.0	3.0	4.0	1.0	1.0	1.0	04.0	002.7386128
1.0	4.0	3.0	1.0	2.0	03.0	3.0	4.0	2.0	1.0	1.0	03.0	-000.7071068
1.0	4.0	3.0	1.0	2.0	05.0	3.0	4.0	2.0	1.0	1.0	05.0	003.1622777
1.0	4.0	3.0	2.0	1.0	02.0	3.0	4.0	1.0	2.0	1.0	02.0	-003.4016803
1.0	4.0	3.0	2.0	1.0	04.0	3.0	4.0	1.0	2.0	1.0	04.0	001.9820624
1.0	4.0	3.0	2.0	2.0	03.0	3.0	4.0	2.0	2.0	1.0	03.0	-002.0412415
1.0	4.0	3.0	2.0	2.0	05.0	3.0	4.0	2.0	2.0	1.0	05.0	002.8867514
1.0	4.0	3.0	2.0	3.0	02.0	3.0	4.0	3.0	2.0	1.0	02.0	000.3086067
1.0	4.0	3.0	2.0	3.0	04.0	3.0	4.0	3.0	2.0	1.0	04.0	-001.3241022
1.0	4.0	3.0	2.0	3.0	06.0	3.0	4.0	3.0	2.0	1.0	06.0	003.8924947
1.0	4.0	3.0	3.0	2.0	01.0	3.0	4.0	2.0	3.0	1.0	01.0	003.4016803
1.0	4.0	3.0	3.0	2.0	03.0	3.0	4.0	2.0	3.0	1.0	03.0	-002.7080128
1.0	4.0	3.0	3.0	2.0	05.0	3.0	4.0	2.0	3.0	1.0	05.0	001.7593289
1.0	4.0	3.0	3.0	3.0	02.0	3.0	4.0	3.0	3.0	1.0	02.0	001.4433757
1.0	4.0	3.0	3.0	3.0	04.0	3.0	4.0	3.0	3.0	1.0	04.0	-002.4771685
1.0	4.0	3.0	3.0	3.0	06.0	3.0	4.0	3.0	3.0	1.0	06.0	003.0463590
1.0	4.0	3.0	3.0	4.0	01.0	3.0	4.0	4.0	3.0	1.0	01.0	-000.1091089
1.0	4.0	3.0	3.0	4.0	03.0	3.0	4.0	4.0	3.0	1.0	03.0	000.6396021
1.0	4.0	3.0	3.0	4.0	05.0	3.0	4.0	4.0	3.0	1.0	05.0	-001.7580271
1.0	4.0	3.0	3.0	4.0	07.0	3.0	4.0	4.0	3.0	1.0	07.0	004.4708327
1.0	4.0	3.0	4.0	3.0	00.0	3.0	4.0	3.0	4.0	1.0	00.0	-003.0000000
1.0	4.0	3.0	4.0	3.0	02.0	3.0	4.0	3.0	4.0	1.0	02.0	003.1339159
1.0	4.0	3.0	4.0	3.0	04.0	3.0	4.0	3.0	4.0	1.0	04.0	-002.6148924
1.0	4.0	3.0	4.0	3.0	06.0	3.0	4.0	3.0	4.0	1.0	06.0	001.6854997
1.0	4.0	3.0	4.0	4.0	01.0	3.0	4.0	4.0	4.0	1.0	01.0	-000.8660254
1.0	4.0	3.0	4.0	4.0	03.0	3.0	4.0	4.0	4.0	1.0	03.0	001.9188065
1.0	4.0	3.0	4.0	4.0	05.0	3.0	4.0	4.0	4.0	1.0	05.0	-002.7907815
1.0	4.0	3.0	4.0	4.0	07.0	3.0	4.0	4.0	4.0	1.0	07.0	003.2062003
1.0	4.0	3.0	4.0	5.0	02.0	3.0	4.0	5.0	4.0	1.0	02.0	-000.2548236
1.0	4.0	3.0	4.0	5.0	04.0	3.0	4.0	5.0	4.0	1.0	04.0	000.8995503
1.0	4.0	3.0	4.0	5.0	06.0	3.0	4.0	5.0	4.0	1.0	06.0	-002.1105794
1.0	4.0	3.0	4.0	5.0	08.0	3.0	4.0	5.0	4.0	1.0	08.0	004.9670241
1.0	4.0	4.0	1.0	0.0	04.0	4.0	4.0	0.0	1.0	1.0	04.0	003.0000000
1.0	4.0	4.0	1.0	1.0	03.0	4.0	4.0	1.0	1.0	1.0	03.0	002.7386128
1.0	4.0	4.0	1.0	1.0	05.0	4.0	4.0	1.0	1.0	1.0	05.0	002.4494898
1.0	4.0	4.0	1.0	2.0	04.0	4.0	4.0	2.0	1.0	1.0	04.0	002.1213204
1.0	4.0	4.0	2.0	1.0	03.0	4.0	4.0	1.0	2.0	1.0	03.0	-002.1213204
1.0	4.0	4.0	2.0	1.0	05.0	4.0	4.0	1.0	2.0	1.0	05.0	003.0000000
1.0	4.0	4.0	2.0	2.0	02.0	4.0	4.0	2.0	2.0	1.0	02.0	-003.2732684
1.0	4.0	4.0	2.0	2.0	04.0	4.0	4.0	2.0	2.0	1.0	04.0	000.9362817
1.0	4.0	4.0	2.0	2.0	06.0	4.0	4.0	2.0	2.0	1.0	06.0	003.3028913
1.0	4.0	4.0	2.0	3.0	03.0	4.0	4.0	3.0	2.0	1.0	03.0	-001.7320508
1.0	4.0	4.0	2.0	3.0	05.0	4.0	4.0	3.0	2.0	1.0	05.0	002.4494898
1.0	4.0	4.0	3.0	2.0	02.0	4.0	4.0	2.0	3.0	1.0	02.0	001.4638501
1.0	4.0	4.0	3.0	2.0	04.0	4.0	4.0	2.0	3.0	1.0	04.0	-002.5123074
1.0	4.0	4.0	3.0	2.0	06.0	4.0	4.0	2.0	3.0	1.0	06.0	003.0895719

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.0	4.0	4.0	3.0	3.0	01.0	4.0	4.0	3.0	3.0	1.0	01.0	003.3541020
1.0	4.0	4.0	3.0	3.0	03.0	4.0	4.0	3.0	3.0	1.0	03.0	-002.1846573
1.0	4.0	4.0	3.0	3.0	05.0	4.0	4.0	3.0	3.0	1.0	05.0	000.2401922
1.0	4.0	4.0	3.0	3.0	07.0	4.0	4.0	3.0	3.0	1.0	07.0	003.9267774
1.0	4.0	4.0	3.0	4.0	02.0	4.0	4.0	4.0	3.0	1.0	02.0	001.2677314
1.0	4.0	4.0	3.0	4.0	04.0	4.0	4.0	4.0	3.0	1.0	04.0	-002.1757220
1.0	4.0	4.0	3.0	4.0	06.0	4.0	4.0	4.0	3.0	1.0	06.0	002.6756478
1.0	4.0	4.0	4.0	3.0	01.0	4.0	4.0	3.0	4.0	1.0	01.0	-000.8660254
1.0	4.0	4.0	4.0	3.0	03.0	4.0	4.0	3.0	4.0	1.0	03.0	001.9188065
1.0	4.0	4.0	4.0	3.0	05.0	4.0	4.0	3.0	4.0	1.0	05.0	-002.7907815
1.0	4.0	4.0	4.0	3.0	07.0	4.0	4.0	3.0	4.0	1.0	07.0	003.2062003
1.0	4.0	4.0	4.0	4.0	00.0	4.0	4.0	4.0	4.0	1.0	00.0	-003.0000000
1.0	4.0	4.0	4.0	4.0	02.0	4.0	4.0	4.0	4.0	1.0	02.0	002.9059947
1.0	4.0	4.0	4.0	4.0	04.0	4.0	4.0	4.0	4.0	1.0	04.0	-001.8103101
1.0	4.0	4.0	4.0	4.0	06.0	4.0	4.0	4.0	4.0	1.0	06.0	-000.2022600
1.0	4.0	4.0	4.0	4.0	08.0	4.0	4.0	4.0	4.0	1.0	08.0	004.4426414
1.0	4.0	4.0	4.0	5.0	01.0	4.0	4.0	5.0	4.0	1.0	01.0	-000.7745967
1.0	4.0	4.0	4.0	5.0	03.0	4.0	4.0	5.0	4.0	1.0	03.0	001.7162327
1.0	4.0	4.0	4.0	5.0	05.0	4.0	4.0	5.0	4.0	1.0	05.0	-002.4961509
1.0	4.0	4.0	4.0	5.0	07.0	4.0	4.0	5.0	4.0	1.0	07.0	002.8577127
1.0	4.0	5.0	0.0	1.0	04.0	5.0	4.0	1.0	0.0	1.0	04.0	-002.360690
1.0	4.0	5.0	1.0	0.0	05.0	5.0	4.0	0.0	1.0	1.0	05.0	003.0000000
1.0	4.0	5.0	1.0	1.0	04.0	5.0	4.0	1.0	1.0	1.0	04.0	002.4444848
1.0	4.0	5.0	1.0	2.0	03.0	5.0	4.0	2.0	1.0	1.0	03.0	003.1622777
1.0	4.0	5.0	1.0	2.0	05.0	5.0	4.0	2.0	1.0	1.0	05.0	-001.4142146
1.0	4.0	5.0	2.0	1.0	04.0	5.0	4.0	1.0	2.0	1.0	04.0	-001.1291522
1.0	4.0	5.0	2.0	1.0	06.0	5.0	4.0	1.0	2.0	1.0	06.0	003.8376129
1.0	4.0	5.0	2.0	2.0	03.0	5.0	4.0	2.0	2.0	1.0	03.0	-001.8257419
1.0	4.0	5.0	2.0	2.0	05.0	5.0	4.0	2.0	2.0	1.0	05.0	002.5819889
1.0	4.0	5.0	2.0	3.0	02.0	5.0	4.0	3.0	2.0	1.0	02.0	-003.4503278
1.0	4.0	5.0	2.0	3.0	04.0	5.0	4.0	3.0	2.0	1.0	04.0	002.3686261
1.0	4.0	5.0	2.0	3.0	06.0	5.0	4.0	3.0	2.0	1.0	06.0	-001.2185436
1.0	4.0	5.0	3.0	2.0	03.0	5.0	4.0	2.0	3.0	1.0	03.0	000.5504819
1.0	4.0	5.0	3.0	2.0	05.0	5.0	4.0	2.0	3.0	1.0	05.0	-001.6946371
1.0	4.0	5.0	3.0	2.0	07.0	5.0	4.0	2.0	3.0	1.0	07.0	004.4525470
1.0	4.0	5.0	3.0	3.0	02.0	5.0	4.0	3.0	3.0	1.0	02.0	001.2909945
1.0	4.0	5.0	3.0	3.0	04.0	5.0	4.0	3.0	3.0	1.0	04.0	-002.2156468
1.0	4.0	5.0	3.0	3.0	06.0	5.0	4.0	3.0	3.0	1.0	06.0	002.7247463
1.0	4.0	5.0	3.0	4.0	01.0	5.0	4.0	4.0	3.0	1.0	01.0	-003.4156503
1.0	4.0	5.0	3.0	4.0	03.0	5.0	4.0	4.0	3.0	1.0	03.0	-002.8603878
1.0	4.0	5.0	3.0	4.0	05.0	5.0	4.0	4.0	3.0	1.0	05.0	002.2013982
1.0	4.0	5.0	3.0	4.0	07.0	5.0	4.0	4.0	3.0	1.0	07.0	-001.1425241
1.0	4.0	5.0	4.0	3.0	02.0	5.0	4.0	3.0	4.0	1.0	02.0	-000.2548236
1.0	4.0	5.0	4.0	3.0	04.0	5.0	4.0	3.0	4.0	1.0	04.0	000.8995503
1.0	4.0	5.0	4.0	3.0	06.0	5.0	4.0	3.0	4.0	1.0	06.0	-002.1105794
1.0	4.0	5.0	4.0	3.0	08.0	5.0	4.0	3.0	4.0	1.0	08.0	004.9670241
1.0	4.0	5.0	4.0	4.0	01.0	5.0	4.0	4.0	4.0	1.0	01.0	-000.7745967
1.0	4.0	5.0	4.0	4.0	03.0	5.0	4.0	4.0	4.0	1.0	03.0	001.7162327
1.0	4.0	5.0	4.0	4.0	05.0	5.0	4.0	4.0	4.0	1.0	05.0	-002.4961509
1.0	4.0	5.0	4.0	4.0	07.0	5.0	4.0	4.0	4.0	1.0	07.0	002.8677127
1.0	4.0	5.0	4.0	5.0	00.0	5.0	4.0	5.0	4.0	1.0	00.0	-003.0000000
1.0	4.0	5.0	4.0	5.0	02.0	5.0	4.0	5.0	4.0	1.0	02.0	003.1908961
1.0	4.0	5.0	4.0	5.0	04.0	5.0	4.0	5.0	4.0	1.0	04.0	-002.8160380
1.0	4.0	5.0	4.0	5.0	06.0	5.0	4.0	5.0	4.0	1.0	06.0	002.1574395
1.0	4.0	5.0	4.0	5.0	08.0	5.0	4.0	5.0	4.0	1.0	08.0	-001.1106604

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
0.5	0.5	0.0	0.5	0.0	00.0	0.0	0.5	0.0	0.5	0.5	00.0	001.4142136
0.5	0.5	0.0	0.5	1.0	01.0	0.0	0.5	1.0	0.5	0.5	01.0	001.4142136
0.5	0.5	0.0	1.5	1.0	01.0	0.0	0.5	1.0	1.5	0.5	01.0	002.0000000
0.5	0.5	0.0	1.5	2.0	02.0	0.0	0.5	2.0	1.5	0.5	02.0	002.0000000
0.5	0.5	0.0	2.5	2.0	02.0	0.0	0.5	2.0	2.5	0.5	02.0	002.4494898
0.5	0.5	0.0	2.5	3.0	03.0	0.0	0.5	3.0	2.5	0.5	03.0	002.4494898
0.5	0.5	0.0	3.5	3.0	03.0	0.0	0.5	3.0	3.5	0.5	03.0	002.8284271
0.5	0.5	0.0	3.5	4.0	04.0	0.0	0.5	4.0	3.5	0.5	04.0	002.8284271
0.5	0.5	0.0	4.5	4.0	04.0	0.0	0.5	4.0	4.5	0.5	04.0	003.1622777
0.5	0.5	0.0	4.5	5.0	05.0	0.0	0.5	5.0	4.5	0.5	05.0	003.1622777
0.5	0.5	1.0	0.5	0.0	01.0	1.0	0.5	0.0	0.5	0.5	01.0	001.4142136
0.5	0.5	1.0	0.5	1.0	00.0	1.0	0.5	1.0	0.5	0.5	00.0	001.4142136
0.5	0.5	1.0	1.5	1.0	02.0	1.0	0.5	1.0	1.5	0.5	02.0	002.0000000
0.5	0.5	1.0	1.5	2.0	01.0	1.0	0.5	2.0	1.5	0.5	01.0	002.0000000
0.5	0.5	1.0	2.5	2.0	03.0	1.0	0.5	2.0	2.5	0.5	03.0	002.4494898
0.5	0.5	1.0	2.5	3.0	02.0	1.0	0.5	3.0	2.5	0.5	02.0	002.4494898
0.5	0.5	1.0	3.5	3.0	04.0	1.0	0.5	3.0	3.5	0.5	04.0	002.8284271
0.5	0.5	1.0	3.5	4.0	03.0	1.0	0.5	4.0	3.5	0.5	03.0	002.8284271
0.5	0.5	1.0	4.5	4.0	05.0	1.0	0.5	4.0	4.5	0.5	05.0	003.1622777
0.5	0.5	1.0	4.5	5.0	04.0	1.0	0.5	5.0	4.5	0.5	04.0	003.1622777
0.5	1.5	1.0	0.5	0.0	01.0	1.0	1.5	0.0	0.5	0.5	01.0	002.0000000
0.5	1.5	1.0	0.5	1.0	02.0	1.0	1.5	1.0	0.5	0.5	02.0	002.0000000
0.5	1.5	1.0	1.5	1.0	00.0	1.0	1.5	1.0	1.5	0.5	00.0	-002.0000000
0.5	1.5	1.0	1.5	1.0	02.0	1.0	1.5	1.0	1.5	0.5	02.0	002.0000000
0.5	1.5	1.0	1.5	2.0	01.0	1.0	1.5	2.0	1.5	0.5	01.0	-000.8944272
0.5	1.5	1.0	1.5	2.0	03.0	1.0	1.5	2.0	1.5	0.5	03.0	002.6832816
0.5	1.5	1.0	2.5	2.0	01.0	1.0	1.5	2.0	2.5	0.5	01.0	-002.6832816
0.5	1.5	1.0	2.5	2.0	03.0	1.0	1.5	2.0	2.5	0.5	03.0	002.1908903
0.5	1.5	1.0	2.5	3.0	02.0	1.0	1.5	3.0	2.5	0.5	02.0	-001.3093074
0.5	1.5	1.0	2.5	3.0	04.0	1.0	1.5	3.0	2.5	0.5	04.0	003.2071350
0.5	1.5	1.0	3.5	3.0	02.0	1.0	1.5	3.0	3.5	0.5	02.0	-003.2071350
0.5	1.5	1.0	3.5	3.0	04.0	1.0	1.5	3.0	3.5	0.5	04.0	002.3904573
0.5	1.5	1.0	3.5	4.0	03.0	1.0	1.5	4.0	3.5	0.5	03.0	-001.6329932
0.5	1.5	1.0	3.5	4.0	05.0	1.0	1.5	4.0	3.5	0.5	05.0	003.6514838
0.5	1.5	1.0	4.5	4.0	03.0	1.0	1.5	4.0	4.5	0.5	03.0	-003.6514837
0.5	1.5	1.0	4.5	4.0	05.0	1.0	1.5	4.0	4.5	0.5	05.0	002.5819889
0.5	1.5	1.0	4.5	5.0	04.0	1.0	1.5	5.0	4.5	0.5	04.0	-001.9069252
0.5	1.5	1.0	4.5	5.0	06.0	1.0	1.5	5.0	4.5	0.5	06.0	004.0451992
0.5	1.5	2.0	0.5	0.0	02.0	2.0	1.5	0.0	0.5	0.5	02.0	002.0000000
0.5	1.5	2.0	0.5	1.0	01.0	2.0	1.5	1.0	0.5	0.5	01.0	002.0000000
0.5	1.5	2.0	1.5	1.0	01.0	2.0	1.5	1.0	1.5	0.5	01.0	-000.8944272
0.5	1.5	2.0	1.5	1.0	03.0	2.0	1.5	1.0	1.5	0.5	03.0	002.6832816
0.5	1.5	2.0	1.5	2.0	00.0	2.0	1.5	2.0	1.5	0.5	00.0	-002.0000000
0.5	1.5	2.0	1.5	2.0	02.0	2.0	1.5	2.0	1.5	0.5	02.0	002.0000000
0.5	1.5	2.0	2.5	2.0	02.0	2.0	1.5	2.0	2.5	0.5	02.0	-001.3093074
0.5	1.5	2.0	2.5	2.0	04.0	2.0	1.5	2.0	2.5	0.5	04.0	003.2071349
0.5	1.5	2.0	2.5	3.0	01.0	2.0	1.5	3.0	2.5	0.5	01.0	-002.6832816
0.5	1.5	2.0	2.5	3.0	03.0	2.0	1.5	3.0	2.5	0.5	03.0	002.1908903
0.5	1.5	2.0	3.5	3.0	03.0	2.0	1.5	3.0	3.5	0.5	03.0	-001.6329932
0.5	1.5	2.0	3.5	3.0	05.0	2.0	1.5	3.0	3.5	0.5	05.0	003.6514838
0.5	1.5	2.0	3.5	4.0	02.0	2.0	1.5	4.0	3.5	0.5	02.0	-003.2071349
0.5	1.5	2.0	3.5	4.0	04.0	2.0	1.5	4.0	3.5	0.5	04.0	002.3904572
0.5	1.5	2.0	4.5	4.0	04.0	2.0	1.5	4.0	4.5	0.5	04.0	-001.9069252
0.5	1.5	2.0	4.5	4.0	06.0	2.0	1.5	4.0	4.5	0.5	06.0	004.0451992
0.5	1.5	2.0	4.5	5.0	03.0	2.0	1.5	5.0	4.5	0.5	03.0	-003.6514837

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
0.5	1.5	2.0	4.5	5.0	05.0	2.0	1.5	5.0	4.5	0.5	05.0	002.5819889
0.5	2.5	2.0	0.5	0.0	02.0	2.0	2.5	0.0	0.5	0.5	02.0	002.4494898
0.5	2.5	2.0	0.5	1.0	03.0	2.0	2.5	1.0	0.5	0.5	03.0	002.4494898
0.5	2.5	2.0	1.5	1.0	01.0	2.0	2.5	1.0	1.5	0.5	01.0	-002.6832816
0.5	2.5	2.0	1.5	1.0	03.0	2.0	2.5	1.0	1.5	0.5	03.0	002.1908903
0.5	2.5	2.0	1.5	2.0	02.0	2.0	2.5	2.0	1.5	0.5	02.0	-001.3093074
0.5	2.5	2.0	1.5	2.0	04.0	2.0	2.5	2.0	1.5	0.5	04.0	003.2071349
0.5	2.5	2.0	2.5	2.0	00.0	2.0	2.5	2.0	2.5	0.5	00.0	002.4494897
0.5	2.5	2.0	2.5	2.0	02.0	2.0	2.5	2.0	2.5	0.5	02.0	-002.6186147
0.5	2.5	2.0	2.5	2.0	04.0	2.0	2.5	2.0	2.5	0.5	04.0	002.2677868
0.5	2.5	2.0	2.5	3.0	01.0	2.0	2.5	3.0	2.5	0.5	01.0	000.7171372
0.5	2.5	2.0	2.5	3.0	03.0	2.0	2.5	3.0	2.5	0.5	03.0	-001.7888544
0.5	2.5	2.0	2.5	3.0	05.0	2.0	2.5	3.0	2.5	0.5	05.0	003.7796447
0.5	2.5	2.0	3.5	3.0	01.0	2.0	2.5	3.0	3.5	0.5	01.0	003.2071349
0.5	2.5	2.0	3.5	3.0	03.0	2.0	2.5	3.0	3.5	0.5	03.0	-002.8284272
0.5	2.5	2.0	3.5	3.0	05.0	2.0	2.5	3.0	3.5	0.5	05.0	002.3904572
0.5	2.5	2.0	3.5	4.0	02.0	2.0	2.5	4.0	3.5	0.5	02.0	001.0690450
0.5	2.5	2.0	3.5	4.0	04.0	2.0	2.5	4.0	3.5	0.5	04.0	-002.1622499
0.5	2.5	2.0	3.5	4.0	06.0	2.0	2.5	4.0	3.5	0.5	06.0	004.2640144
0.5	2.5	2.0	4.5	4.0	02.0	2.0	2.5	4.0	4.5	0.5	02.0	003.7796448
0.5	2.5	2.0	4.5	4.0	04.0	2.0	2.5	4.0	4.5	0.5	04.0	-003.0578832
0.5	2.5	2.0	4.5	4.0	06.0	2.0	2.5	4.0	4.5	0.5	06.0	002.5226249
0.5	2.5	2.0	4.5	5.0	03.0	2.0	2.5	5.0	4.5	0.5	03.0	001.3483997
0.5	2.5	2.0	4.5	5.0	05.0	2.0	2.5	5.0	4.5	0.5	05.0	-002.4806947
0.5	2.5	2.0	4.5	5.0	07.0	2.0	2.5	5.0	4.5	0.5	07.0	004.6933967
0.5	2.5	3.0	0.5	0.0	03.0	3.0	2.5	0.0	0.5	0.5	03.0	002.4494898
0.5	2.5	3.0	0.5	1.0	02.0	3.0	2.5	1.0	0.5	0.5	02.0	002.4494898
0.5	2.5	3.0	1.5	1.0	02.0	3.0	2.5	1.0	1.5	0.5	02.0	-001.3093074
0.5	2.5	3.0	1.5	1.0	04.0	3.0	2.5	1.0	1.5	0.5	04.0	003.2071350
0.5	2.5	3.0	1.5	2.0	01.0	3.0	2.5	2.0	1.5	0.5	01.0	-002.6832816
0.5	2.5	3.0	1.5	2.0	03.0	3.0	2.5	2.0	1.5	0.5	03.0	002.1908903
0.5	2.5	3.0	2.5	2.0	01.0	3.0	2.5	2.0	2.5	0.5	01.0	000.7171372
0.5	2.5	3.0	2.5	2.0	03.0	3.0	2.5	2.0	2.5	0.5	03.0	-001.7888544
0.5	2.5	3.0	2.5	2.0	05.0	3.0	2.5	2.0	2.5	0.5	05.0	003.7796447
0.5	2.5	3.0	2.5	3.0	00.0	3.0	2.5	3.0	2.5	0.5	00.0	002.4494897
0.5	2.5	3.0	2.5	3.0	02.0	3.0	2.5	3.0	2.5	0.5	02.0	-002.6186147
0.5	2.5	3.0	2.5	3.0	04.0	3.0	2.5	3.0	2.5	0.5	04.0	002.2677868
0.5	2.5	3.0	3.5	3.0	02.0	3.0	2.5	3.0	3.5	0.5	02.0	001.0690450
0.5	2.5	3.0	3.5	3.0	04.0	3.0	2.5	3.0	3.5	0.5	04.0	-002.1622499
0.5	2.5	3.0	3.5	3.0	06.0	3.0	2.5	3.0	3.5	0.5	06.0	004.2640143
0.5	2.5	3.0	3.5	4.0	01.0	3.0	2.5	4.0	3.5	0.5	01.0	003.2071349
0.5	2.5	3.0	3.5	4.0	03.0	3.0	2.5	4.0	3.5	0.5	03.0	-002.8284271
0.5	2.5	3.0	3.5	4.0	05.0	3.0	2.5	4.0	3.5	0.5	05.0	002.3904572
0.5	2.5	3.0	4.5	4.0	03.0	3.0	2.5	4.0	4.5	0.5	03.0	001.3483997
0.5	2.5	3.0	4.5	4.0	05.0	3.0	2.5	4.0	4.5	0.5	05.0	-002.4806947
0.5	2.5	3.0	4.5	4.0	07.0	3.0	2.5	4.0	4.5	0.5	07.0	004.6933967
0.5	2.5	3.0	4.5	5.0	02.0	3.0	2.5	5.0	4.5	0.5	02.0	003.7796448
0.5	2.5	3.0	4.5	5.0	04.0	3.0	2.5	5.0	4.5	0.5	04.0	-003.0578832
0.5	2.5	3.0	4.5	5.0	06.0	3.0	2.5	5.0	4.5	0.5	06.0	002.5226249
0.5	3.5	3.0	0.5	0.0	03.0	3.0	3.5	0.0	0.5	0.5	03.0	002.8284271
0.5	3.5	3.0	0.5	1.0	04.0	3.0	3.5	1.0	0.5	0.5	04.0	002.8284271
0.5	3.5	3.0	1.5	1.0	02.0	3.0	3.5	1.0	1.5	0.5	02.0	-003.2071350
0.5	3.5	3.0	1.5	1.0	04.0	3.0	3.5	1.0	1.5	0.5	04.0	002.3904573
0.5	3.5	3.0	1.5	2.0	03.0	3.0	3.5	2.0	1.5	0.5	03.0	-001.6329932
0.5	3.5	3.0	1.5	2.0	05.0	3.0	3.5	2.0	1.5	0.5	05.0	003.6514838

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
0.5	3.5	3.0	2.5	2.0	01.0	3.0	3.5	2.0	2.5	0.5	01.0	003.2071349
0.5	3.5	3.0	2.5	2.0	03.0	3.0	3.5	2.0	2.5	0.5	03.0	-002.8284272
0.5	3.5	3.0	2.5	2.0	05.0	3.0	3.5	2.0	2.5	0.5	05.0	002.3904577
0.5	3.5	3.0	2.5	3.0	02.0	3.0	3.5	3.0	2.5	0.5	02.0	001.0690450
0.5	3.5	3.0	2.5	3.0	04.0	3.0	3.5	3.0	2.5	0.5	04.0	-002.1622499
0.5	3.5	3.0	2.5	3.0	06.0	3.0	3.5	3.0	2.5	0.5	06.0	004.2640143
0.5	3.5	3.0	3.5	3.0	00.0	3.0	3.5	3.0	3.5	0.5	00.0	-002.8284271
0.5	3.5	3.0	3.5	3.0	02.0	3.0	3.5	3.0	3.5	0.5	02.0	003.0860670
0.5	3.5	3.0	3.5	3.0	04.0	3.0	3.5	3.0	3.5	0.5	04.0	-002.9009627
0.5	3.5	3.0	3.5	3.0	06.0	3.0	3.5	3.0	3.5	0.5	06.0	002.4618298
0.5	3.5	3.0	3.5	4.0	01.0	3.0	3.5	4.0	3.5	0.5	01.0	-000.6172134
0.5	3.5	3.0	3.5	4.0	03.0	3.0	3.5	4.0	3.5	0.5	03.0	001.4770979
0.5	3.5	3.0	3.5	4.0	05.0	3.0	3.5	4.0	3.5	0.5	05.0	-002.5677630
0.5	3.5	3.0	3.5	4.0	07.0	3.0	3.5	4.0	3.5	0.5	07.0	004.7795212
0.5	3.5	3.0	4.5	4.0	01.0	3.0	3.5	4.0	4.5	0.5	01.0	-003.6514837
0.5	3.5	3.0	4.5	4.0	03.0	3.0	3.5	4.0	4.5	0.5	03.0	003.3028913
0.5	3.5	3.0	4.5	4.0	05.0	3.0	3.5	4.0	4.5	0.5	05.0	-003.0382181
0.5	3.5	3.0	4.5	4.0	07.0	3.0	3.5	4.0	4.5	0.5	07.0	002.5547616
0.5	3.5	3.0	4.5	5.0	02.0	3.0	3.5	5.0	4.5	0.5	02.0	-000.9304842
0.5	3.5	3.0	4.5	5.0	04.0	3.0	3.5	5.0	4.5	0.5	04.0	001.7991007
0.5	3.5	3.0	4.5	5.0	06.0	3.0	3.5	5.0	4.5	0.5	06.0	-002.9128763
0.5	3.5	3.0	4.5	5.0	08.0	3.0	3.5	5.0	4.5	0.5	08.0	005.2357032
0.5	3.5	4.0	0.5	0.0	04.0	4.0	3.5	0.0	0.5	0.5	04.0	002.8284271
0.5	3.5	4.0	0.5	1.0	03.0	4.0	3.5	1.0	0.5	0.5	03.0	002.8284271
0.5	3.5	4.0	1.5	1.0	03.0	4.0	3.5	1.0	1.5	0.5	03.0	-001.6329932
0.5	3.5	4.0	1.5	1.0	05.0	4.0	3.5	1.0	1.5	0.5	05.0	003.6514838
0.5	3.5	4.0	1.5	2.0	02.0	4.0	3.5	2.0	1.5	0.5	02.0	-003.2071349
0.5	3.5	4.0	1.5	2.0	04.0	4.0	3.5	2.0	1.5	0.5	04.0	002.3904572
0.5	3.5	4.0	2.5	2.0	02.0	4.0	3.5	2.0	2.5	0.5	02.0	001.0690450
0.5	3.5	4.0	2.5	2.0	04.0	4.0	3.5	2.0	2.5	0.5	04.0	-002.1622499
0.5	3.5	4.0	2.5	2.0	06.0	4.0	3.5	2.0	2.5	0.5	06.0	004.2640144
0.5	3.5	4.0	2.5	3.0	01.0	4.0	3.5	3.0	2.5	0.5	01.0	003.2071349
0.5	3.5	4.0	2.5	3.0	03.0	4.0	3.5	3.0	2.5	0.5	03.0	-002.8284271
0.5	3.5	4.0	2.5	3.0	05.0	4.0	3.5	3.0	2.5	0.5	05.0	002.3904572
0.5	3.5	4.0	3.5	3.0	01.0	4.0	3.5	3.0	3.5	0.5	01.0	-000.6172134
0.5	3.5	4.0	3.5	3.0	03.0	4.0	3.5	3.0	3.5	0.5	03.0	001.4770979
0.5	3.5	4.0	3.5	3.0	05.0	4.0	3.5	3.0	3.5	0.5	05.0	-002.5677630
0.5	3.5	4.0	3.5	3.0	07.0	4.0	3.5	3.0	3.5	0.5	07.0	004.7795212
0.5	3.5	4.0	3.5	4.0	00.0	4.0	3.5	4.0	3.5	0.5	00.0	-002.8284271
0.5	3.5	4.0	3.5	4.0	02.0	4.0	3.5	4.0	3.5	0.5	02.0	003.0860670
0.5	3.5	4.0	3.5	4.0	04.0	4.0	3.5	4.0	3.5	0.5	04.0	-002.9009627
0.5	3.5	4.0	3.5	4.0	06.0	4.0	3.5	4.0	3.5	0.5	06.0	002.4618298
0.5	3.5	4.0	4.5	4.0	02.0	4.0	3.5	4.0	4.5	0.5	02.0	-000.9304842
0.5	3.5	4.0	4.5	4.0	04.0	4.0	3.5	4.0	4.5	0.5	04.0	001.7991007
0.5	3.5	4.0	4.5	4.0	06.0	4.0	3.5	4.0	4.5	0.5	06.0	-002.9128763
0.5	3.5	4.0	4.5	4.0	08.0	4.0	3.5	4.0	4.5	0.5	08.0	005.2357031
0.5	3.5	4.0	4.5	5.0	01.0	4.0	3.5	5.0	4.5	0.5	01.0	-003.6514837
0.5	3.5	4.0	4.5	5.0	03.0	4.0	3.5	5.0	4.5	0.5	03.0	003.3028913
0.5	3.5	4.0	4.5	5.0	05.0	4.0	3.5	5.0	4.5	0.5	05.0	-003.0382181
0.5	3.5	4.0	4.5	5.0	07.0	4.0	3.5	5.0	4.5	0.5	07.0	002.5547615
0.5	4.5	4.0	0.5	0.0	04.0	4.0	4.5	0.0	0.5	0.5	04.0	003.1622777
0.5	4.5	4.0	0.5	1.0	05.0	4.0	4.5	1.0	0.5	0.5	05.0	003.1622777
0.5	4.5	4.0	1.5	1.0	03.0	4.0	4.5	1.0	1.5	0.5	03.0	-003.6514837
0.5	4.5	4.0	1.5	1.0	05.0	4.0	4.5	1.0	1.5	0.5	05.0	002.5819889
0.5	4.5	4.0	1.5	2.0	04.0	4.0	4.5	2.0	1.5	0.5	04.0	-001.9069252

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
0.5	4.5	4.0	1.5	2.0	06.0	4.0	4.5	2.0	1.5	0.5	06.0	004.0451992
0.5	4.5	4.0	2.5	2.0	02.0	4.0	4.5	2.0	2.5	0.5	02.0	003.7796448
0.5	4.5	4.0	2.5	2.0	04.0	4.0	4.5	2.0	2.5	0.5	04.0	-003.0578832
0.5	4.5	4.0	2.5	2.0	06.0	4.0	4.5	2.0	2.5	0.5	06.0	002.5226249
0.5	4.5	4.0	2.5	3.0	03.0	4.0	4.5	3.0	2.5	0.5	03.0	001.3483997
0.5	4.5	4.0	2.5	3.0	05.0	4.0	4.5	3.0	2.5	0.5	05.0	-002.4806947
0.5	4.5	4.0	2.5	3.0	07.0	4.0	4.5	3.0	2.5	0.5	07.0	004.6933967
0.5	4.5	4.0	3.5	3.0	01.0	4.0	4.5	3.0	3.5	0.5	01.0	-003.6514837
0.5	4.5	4.0	3.5	3.0	03.0	4.0	4.5	3.0	3.5	0.5	03.0	003.3028913
0.5	4.5	4.0	3.5	3.0	05.0	4.0	4.5	3.0	3.5	0.5	05.0	-003.0382181
0.5	4.5	4.0	3.5	3.0	07.0	4.0	4.5	3.0	3.5	0.5	07.0	002.5547616
0.5	4.5	4.0	3.5	4.0	02.0	4.0	4.5	4.0	3.5	0.5	02.0	-000.9304842
0.5	4.5	4.0	3.5	4.0	04.0	4.0	4.5	4.0	3.5	0.5	04.0	001.7991007
0.5	4.5	4.0	3.5	4.0	06.0	4.0	4.5	4.0	3.5	0.5	06.0	-002.9128763
0.5	4.5	4.0	3.5	4.0	08.0	4.0	4.5	4.0	3.5	0.5	08.0	005.2357031
0.5	4.5	4.0	4.5	4.0	00.0	4.0	4.5	4.0	4.5	0.5	00.0	003.1622777
0.5	4.5	4.0	4.5	4.0	02.0	4.0	4.5	4.0	4.5	0.5	02.0	-003.4815531
0.5	4.5	4.0	4.5	4.0	04.0	4.0	4.5	4.0	4.5	0.5	04.0	003.3658091
0.5	4.5	4.0	4.5	4.0	06.0	4.0	4.5	4.0	4.5	0.5	06.0	-003.1139958
0.5	4.5	4.0	4.5	4.0	08.0	4.0	4.5	4.0	4.5	0.5	08.0	002.6178516
0.5	4.5	4.0	4.5	5.0	01.0	4.0	4.5	5.0	4.5	0.5	01.0	000.5504819
0.5	4.5	4.0	4.5	5.0	03.0	4.0	4.5	5.0	4.5	0.5	03.0	-001.2955006
0.5	4.5	4.0	4.5	5.0	05.0	4.0	4.5	5.0	4.5	0.5	05.0	002.1483446
0.5	4.5	4.0	4.5	5.0	07.0	4.0	4.5	5.0	4.5	0.5	07.0	-003.2787245
0.5	4.5	4.0	4.5	5.0	09.0	4.0	4.5	5.0	4.5	0.5	09.0	005.7143004
0.5	4.5	5.0	0.5	0.0	05.0	5.0	4.5	0.0	0.5	0.5	05.0	003.1622777
0.5	4.5	5.0	0.5	1.0	04.0	5.0	4.5	1.0	0.5	0.5	04.0	003.1622777
0.5	4.5	5.0	1.5	1.0	04.0	5.0	4.5	1.0	1.5	0.5	04.0	-001.9069252
0.5	4.5	5.0	1.5	1.0	06.0	5.0	4.5	1.0	1.5	0.5	06.0	004.0451992
0.5	4.5	5.0	1.5	2.0	03.0	5.0	4.5	2.0	1.5	0.5	03.0	-003.6514837
0.5	4.5	5.0	1.5	2.0	05.0	5.0	4.5	2.0	1.5	0.5	05.0	002.5819889
0.5	4.5	5.0	2.5	2.0	03.0	5.0	4.5	2.0	2.5	0.5	03.0	001.3483997
0.5	4.5	5.0	2.5	2.0	05.0	5.0	4.5	2.0	2.5	0.5	05.0	-002.4806947
0.5	4.5	5.0	2.5	2.0	07.0	5.0	4.5	2.0	2.5	0.5	07.0	004.6933967
0.5	4.5	5.0	2.5	3.0	02.0	5.0	4.5	3.0	2.5	0.5	02.0	003.7796448
0.5	4.5	5.0	2.5	3.0	04.0	5.0	4.5	3.0	2.5	0.5	04.0	-003.0578832
0.5	4.5	5.0	2.5	3.0	06.0	5.0	4.5	3.0	2.5	0.5	06.0	002.5226249
0.5	4.5	5.0	3.5	3.0	02.0	5.0	4.5	3.0	3.5	0.5	02.0	-000.9304842
0.5	4.5	5.0	3.5	3.0	04.0	5.0	4.5	3.0	3.5	0.5	04.0	001.7991007
0.5	4.5	5.0	3.5	3.0	06.0	5.0	4.5	3.0	3.5	0.5	06.0	-002.9128763
0.5	4.5	5.0	3.5	3.0	08.0	5.0	4.5	3.0	3.5	0.5	08.0	005.2357032
0.5	4.5	5.0	3.5	4.0	01.0	5.0	4.5	4.0	3.5	0.5	01.0	-003.6514837
0.5	4.5	5.0	3.5	4.0	03.0	5.0	4.5	4.0	3.5	0.5	03.0	003.3028913
0.5	4.5	5.0	3.5	4.0	05.0	5.0	4.5	4.0	3.5	0.5	05.0	-003.0382181
0.5	4.5	5.0	3.5	4.0	07.0	5.0	4.5	4.0	3.5	0.5	07.0	002.5547615
0.5	4.5	5.0	4.5	4.0	01.0	5.0	4.5	4.0	4.5	0.5	01.0	000.5504819
0.5	4.5	5.0	4.5	4.0	03.0	5.0	4.5	4.0	4.5	0.5	03.0	-001.2955006
0.5	4.5	5.0	4.5	4.0	05.0	5.0	4.5	4.0	4.5	0.5	05.0	002.1483446
0.5	4.5	5.0	4.5	4.0	07.0	5.0	4.5	4.0	4.5	0.5	07.0	-003.2787245
0.5	4.5	5.0	4.5	4.0	09.0	5.0	4.5	4.0	4.5	0.5	09.0	005.7143004
0.5	4.5	5.0	4.5	5.0	00.0	5.0	4.5	5.0	4.5	0.5	00.0	003.1622777
0.5	4.5	5.0	4.5	5.0	02.0	5.0	4.5	5.0	4.5	0.5	02.0	-003.4815531
0.5	4.5	5.0	4.5	5.0	04.0	5.0	4.5	5.0	4.5	0.5	04.0	003.3658092
0.5	4.5	5.0	4.5	5.0	06.0	5.0	4.5	5.0	4.5	0.5	06.0	-003.1139958
0.5	4.5	5.0	4.5	5.0	08.0	5.0	4.5	5.0	4.5	0.5	08.0	002.6178516

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.5	0.5	1.0	0.5	1.0	00.0	1.0	0.5	1.0	0.5	1.5	00.0	-001.4142136
1.5	0.5	1.0	0.5	2.0	01.0	1.0	0.5	2.0	0.5	1.5	01.0	-001.4142136
1.5	0.5	1.0	1.5	0.0	01.0	1.0	0.5	0.0	1.5	1.5	01.0	001.4142136
1.5	0.5	1.0	1.5	1.0	02.0	1.0	0.5	1.0	1.5	1.5	02.0	000.6324555
1.5	0.5	1.0	1.5	2.0	01.0	1.0	0.5	2.0	1.5	1.5	01.0	-001.4142136
1.5	0.5	1.0	1.5	3.0	02.0	1.0	0.5	3.0	1.5	1.5	02.0	-001.8973666
1.5	0.5	1.0	2.5	1.0	02.0	1.0	0.5	1.0	2.5	1.5	02.0	001.8973666
1.5	0.5	1.0	2.5	2.0	03.0	1.0	0.5	2.0	2.5	1.5	03.0	000.9258201
1.5	0.5	1.0	2.5	3.0	02.0	1.0	0.5	3.0	2.5	1.5	02.0	-001.5491934
1.5	0.5	1.0	2.5	4.0	03.0	1.0	0.5	4.0	2.5	1.5	03.0	-002.2677869
1.5	0.5	1.0	3.5	2.0	03.0	1.0	0.5	2.0	3.5	1.5	03.0	002.2677869
1.5	0.5	1.0	3.5	3.0	04.0	1.0	0.5	3.0	3.5	1.5	04.0	001.1547006
1.5	0.5	1.0	3.5	4.0	03.0	1.0	0.5	4.0	3.5	1.5	03.0	-001.6903085
1.5	0.5	1.0	3.5	5.0	04.0	1.0	0.5	5.0	3.5	1.5	04.0	-002.5819889
1.5	0.5	1.0	4.5	3.0	04.0	1.0	0.5	3.0	4.5	1.5	04.0	002.5819889
1.5	0.5	1.0	4.5	4.0	05.0	1.0	0.5	4.0	4.5	1.5	05.0	001.3481997
1.5	0.5	1.0	4.5	5.0	04.0	1.0	0.5	5.0	4.5	1.5	04.0	-001.8257419
1.5	0.5	1.0	4.5	6.0	05.0	1.0	0.5	6.0	4.5	1.5	05.0	-002.8603878
1.5	0.5	2.0	0.5	1.0	01.0	2.0	0.5	1.0	0.5	1.5	01.0	-001.4142136
1.5	0.5	2.0	0.5	2.0	00.0	2.0	0.5	2.0	0.5	1.5	00.0	-001.4142136
1.5	0.5	2.0	1.5	0.0	02.0	2.0	0.5	0.0	1.5	1.5	02.0	001.4142136
1.5	0.5	2.0	1.5	1.0	01.0	2.0	0.5	1.0	1.5	1.5	01.0	000.6324555
1.5	0.5	2.0	1.5	2.0	02.0	2.0	0.5	2.0	1.5	1.5	02.0	-001.4142136
1.5	0.5	2.0	1.5	3.0	01.0	2.0	0.5	3.0	1.5	1.5	01.0	-001.8973666
1.5	0.5	2.0	2.5	1.0	03.0	2.0	0.5	1.0	2.5	1.5	03.0	001.8973666
1.5	0.5	2.0	2.5	2.0	02.0	2.0	0.5	2.0	2.5	1.5	02.0	000.9258201
1.5	0.5	2.0	2.5	3.0	03.0	2.0	0.5	3.0	2.5	1.5	03.0	-001.5491933
1.5	0.5	2.0	2.5	4.0	02.0	2.0	0.5	4.0	2.5	1.5	02.0	-002.2677869
1.5	0.5	2.0	3.5	2.0	04.0	2.0	0.5	2.0	3.5	1.5	04.0	002.2677868
1.5	0.5	2.0	3.5	3.0	03.0	2.0	0.5	3.0	3.5	1.5	03.0	001.1547005
1.5	0.5	2.0	3.5	4.0	04.0	2.0	0.5	4.0	3.5	1.5	04.0	-001.6903085
1.5	0.5	2.0	3.5	5.0	03.0	2.0	0.5	5.0	3.5	1.5	03.0	-002.5819889
1.5	0.5	2.0	4.5	3.0	05.0	2.0	0.5	3.0	4.5	1.5	05.0	002.5819889
1.5	0.5	2.0	4.5	4.0	04.0	2.0	0.5	4.0	4.5	1.5	04.0	001.3481997
1.5	0.5	2.0	4.5	5.0	05.0	2.0	0.5	5.0	4.5	1.5	05.0	-001.8257419
1.5	0.5	2.0	4.5	6.0	04.0	2.0	0.5	6.0	4.5	1.5	04.0	-002.8603878
1.5	1.5	0.0	0.5	1.0	01.0	0.0	1.5	1.0	0.5	1.5	01.0	001.4142136
1.5	1.5	0.0	0.5	2.0	02.0	0.0	1.5	2.0	0.5	1.5	02.0	001.4142136
1.5	1.5	0.0	1.5	0.0	00.0	0.0	1.5	0.0	1.5	1.5	00.0	002.0000000
1.5	1.5	0.0	1.5	1.0	01.0	0.0	1.5	1.0	1.5	1.5	01.0	002.0000000
1.5	1.5	0.0	1.5	2.0	02.0	0.0	1.5	2.0	1.5	1.5	02.0	002.0000000
1.5	1.5	0.0	1.5	3.0	03.0	0.0	1.5	3.0	1.5	1.5	03.0	002.0000000
1.5	1.5	0.0	2.5	1.0	01.0	0.0	1.5	1.0	2.5	1.5	01.0	002.4494898
1.5	1.5	0.0	2.5	2.0	02.0	0.0	1.5	2.0	2.5	1.5	02.0	002.4494898
1.5	1.5	0.0	2.5	3.0	03.0	0.0	1.5	3.0	2.5	1.5	03.0	002.4494898
1.5	1.5	0.0	2.5	4.0	04.0	0.0	1.5	4.0	2.5	1.5	04.0	002.4494898
1.5	1.5	0.0	3.5	2.0	02.0	0.0	1.5	2.0	3.5	1.5	02.0	002.8284272
1.5	1.5	0.0	3.5	3.0	03.0	0.0	1.5	3.0	3.5	1.5	03.0	002.8284272
1.5	1.5	0.0	3.5	4.0	04.0	0.0	1.5	4.0	3.5	1.5	04.0	002.8284271
1.5	1.5	0.0	3.5	5.0	05.0	0.0	1.5	5.0	3.5	1.5	05.0	002.8284272
1.5	1.5	0.0	4.5	3.0	03.0	0.0	1.5	3.0	4.5	1.5	03.0	003.1622777
1.5	1.5	0.0	4.5	4.0	04.0	0.0	1.5	4.0	4.5	1.5	04.0	003.1622777
1.5	1.5	0.0	4.5	5.0	05.0	0.0	1.5	5.0	4.5	1.5	05.0	003.1622777
1.5	1.5	0.0	4.5	6.0	06.0	0.0	1.5	6.0	4.5	1.5	06.0	003.1622777
1.5	1.5	1.0	0.5	1.0	02.0	1.0	1.5	1.0	0.5	1.5	02.0	000.6324555

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L	Z
1.5	1.5	1.0	0.5	2.0	01.0	1.0	1.5	2.0	0.5	1.5	01.0	000.6324555
1.5	1.5	1.0	1.5	0.0	01.0	1.0	1.5	0.0	1.5	1.5	01.0	002.0000000
1.5	1.5	1.0	1.5	1.0	00.0	1.0	1.5	1.0	1.5	1.5	00.0	002.0000000
1.5	1.5	1.0	1.5	1.0	02.0	1.0	1.5	1.0	1.5	1.5	02.0	001.6000000
1.5	1.5	1.0	1.5	2.0	01.0	1.0	1.5	2.0	1.5	1.5	01.0	001.6000000
1.5	1.5	1.0	1.5	2.0	03.0	1.0	1.5	2.0	1.5	1.5	03.0	001.2000000
1.5	1.5	1.0	1.5	3.0	02.0	1.0	1.5	3.0	1.5	1.5	02.0	001.2000000
1.5	1.5	1.0	2.5	1.0	02.0	1.0	1.5	1.0	2.5	1.5	02.0	002.2449945
1.5	1.5	1.0	2.5	2.0	01.0	1.0	1.5	2.0	2.5	1.5	01.0	002.2449945
1.5	1.5	1.0	2.5	2.0	03.0	1.0	1.5	2.0	2.5	1.5	03.0	002.0948918
1.5	1.5	1.0	2.5	3.0	02.0	1.0	1.5	3.0	2.5	1.5	02.0	002.0948918
1.5	1.5	1.0	2.5	3.0	04.0	1.0	1.5	3.0	2.5	1.5	04.0	001.6035675
1.5	1.5	1.0	2.5	4.0	03.0	1.0	1.5	4.0	2.5	1.5	03.0	001.6035675
1.5	1.5	1.0	3.5	2.0	03.0	1.0	1.5	2.0	3.5	1.5	03.0	002.4842361
1.5	1.5	1.0	3.5	3.0	02.0	1.0	1.5	3.0	3.5	1.5	02.0	002.4842361
1.5	1.5	1.0	3.5	2.0	04.0	1.0	1.5	3.0	2.5	1.5	04.0	002.4688536
1.5	1.5	1.0	3.5	4.0	03.0	1.0	1.5	4.0	3.5	1.5	03.0	002.4688536
1.5	1.5	1.0	3.5	4.0	05.0	1.0	1.5	4.0	3.5	1.5	05.0	001.9321836
1.5	1.5	1.0	3.5	5.0	04.0	1.0	1.5	5.0	3.5	1.5	04.0	001.9321836
1.5	1.5	1.0	4.5	3.0	04.0	1.0	1.5	3.0	4.5	1.5	04.0	002.7080128
1.5	1.5	1.0	4.5	4.0	03.0	1.0	1.5	4.0	4.5	1.5	03.0	002.7080128
1.5	1.5	1.0	4.5	4.0	05.0	1.0	1.5	4.0	4.5	1.5	05.0	002.7852425
1.5	1.5	1.0	4.5	5.0	04.0	1.0	1.5	5.0	4.5	1.5	04.0	002.7852425
1.5	1.5	1.0	4.5	5.0	06.0	1.0	1.5	5.0	4.5	1.5	06.0	002.2156469
1.5	1.5	1.0	4.5	6.0	05.0	1.0	1.5	6.0	4.5	1.5	05.0	002.2156469
1.5	1.5	2.0	0.5	1.0	01.0	2.0	1.5	1.0	0.5	1.5	01.0	-001.4142136
1.5	1.5	2.0	0.5	2.0	02.0	2.0	1.5	2.0	0.5	1.5	02.0	-001.4142136
1.5	1.5	2.0	1.5	0.0	02.0	2.0	1.5	0.0	1.5	1.5	02.0	002.0000000
1.5	1.5	2.0	1.5	1.0	01.0	2.0	1.5	1.0	1.5	1.5	01.0	001.6000000
1.5	1.5	2.0	1.5	1.0	03.0	2.0	1.5	1.0	1.5	1.5	03.0	001.2000000
1.5	1.5	2.0	1.5	2.0	00.0	2.0	1.5	2.0	1.5	1.5	00.0	002.0000000
1.5	1.5	2.0	1.5	2.0	02.0	2.0	1.5	2.0	1.5	1.5	02.0	000.0000000
1.5	1.5	2.0	1.5	3.0	01.0	2.0	1.5	3.0	1.5	1.5	01.0	001.2000000
1.5	1.5	2.0	1.5	3.0	03.0	2.0	1.5	3.0	1.5	1.5	03.0	-001.6000000
1.5	1.5	2.0	2.5	1.0	01.0	2.0	1.5	1.0	2.5	1.5	01.0	-000.4898980
1.5	1.5	2.0	2.5	1.0	03.0	2.0	1.5	1.0	2.5	1.5	03.0	002.4000000
1.5	1.5	2.0	2.5	2.0	02.0	2.0	1.5	2.0	2.5	1.5	02.0	001.7496355
1.5	1.5	2.0	2.5	2.0	04.0	2.0	1.5	2.0	2.5	1.5	04.0	001.7142857
1.5	1.5	2.0	2.5	3.0	01.0	2.0	1.5	3.0	2.5	1.5	01.0	002.4000000
1.5	1.5	2.0	2.5	3.0	03.0	2.0	1.5	3.0	2.5	1.5	03.0	000.4898980
1.5	1.5	2.0	2.5	4.0	02.0	2.0	1.5	4.0	2.5	1.5	02.0	001.7142857
1.5	1.5	2.0	2.5	4.0	04.0	2.0	1.5	4.0	2.5	1.5	04.0	-001.7496355
1.5	1.5	2.0	3.5	2.0	02.0	2.0	1.5	2.0	3.5	1.5	02.0	-000.8081220
1.5	1.5	2.0	3.5	2.0	04.0	2.0	1.5	2.0	3.5	1.5	04.0	002.7105237
1.5	1.5	2.0	3.5	3.0	03.0	2.0	1.5	3.0	3.5	1.5	03.0	001.8856181
1.5	1.5	2.0	3.5	3.0	05.0	2.0	1.5	3.0	3.5	1.5	05.0	002.1081851
1.5	1.5	2.0	3.5	4.0	02.0	2.0	1.5	4.0	3.5	1.5	02.0	002.7105237
1.5	1.5	2.0	3.5	4.0	04.0	2.0	1.5	4.0	3.5	1.5	04.0	000.8081220
1.5	1.5	2.0	3.5	5.0	03.0	2.0	1.5	5.0	3.5	1.5	03.0	002.1081851
1.5	1.5	2.0	3.5	5.0	05.0	2.0	1.5	5.0	3.5	1.5	05.0	-001.8856181
1.5	1.5	2.0	4.5	3.0	03.0	2.0	1.5	3.0	4.5	1.5	03.0	-001.0540926
1.5	1.5	2.0	4.5	3.0	05.0	2.0	1.5	3.0	4.5	1.5	05.0	002.9814240
1.5	1.5	2.0	4.5	4.0	04.0	2.0	1.5	4.0	4.5	1.5	04.0	002.0123585
1.5	1.5	2.0	4.5	4.0	06.0	2.0	1.5	4.0	4.5	1.5	06.0	002.4393469
1.5	1.5	2.0	4.5	5.0	03.0	2.0	1.5	5.0	4.5	1.5	03.0	002.9814240

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.5	1.5	2.0	4.5	5.0	05.0	2.0	1.5	5.0	4.5	1.5	05.0	001.0540926
1.5	1.5	2.0	4.5	6.0	04.0	2.0	1.5	6.0	4.5	1.5	04.0	002.4393469
1.5	1.5	2.0	4.5	6.0	06.0	2.0	1.5	6.0	4.5	1.5	06.0	-002.0123585
1.5	1.5	3.0	0.5	1.0	02.0	3.0	1.5	1.0	0.5	1.5	02.0	-001.8973666
1.5	1.5	3.0	0.5	2.0	01.0	3.0	1.5	2.0	0.5	1.5	01.0	-001.8973666
1.5	1.5	3.0	1.5	0.0	03.0	3.0	1.5	0.0	1.5	1.5	03.0	002.0000000
1.5	1.5	3.0	1.5	1.0	02.0	3.0	1.5	1.0	1.5	1.5	02.0	001.2000000
1.5	1.5	3.0	1.5	2.0	01.0	3.0	1.5	2.0	1.5	1.5	01.0	001.2000000
1.5	1.5	3.0	1.5	2.0	03.0	3.0	1.5	2.0	1.5	1.5	03.0	-001.6000000
1.5	1.5	3.0	1.5	3.0	00.0	3.0	1.5	3.0	1.5	1.5	00.0	002.0000000
1.5	1.5	3.0	1.5	3.0	02.0	3.0	1.5	3.0	1.5	1.5	02.0	-001.6000000
1.5	1.5	3.0	2.5	1.0	02.0	3.0	1.5	1.0	2.5	1.5	02.0	-000.3207135
1.5	1.5	3.0	2.5	1.0	04.0	3.0	1.5	1.0	2.5	1.5	04.0	002.6186147
1.5	1.5	3.0	2.5	2.0	01.0	3.0	1.5	2.0	2.5	1.5	01.0	-000.3207135
1.5	1.5	3.0	2.5	2.0	03.0	3.0	1.5	2.0	2.5	1.5	03.0	001.5711688
1.5	1.5	3.0	2.5	3.0	02.0	3.0	1.5	3.0	2.5	1.5	02.0	001.5711688
1.5	1.5	3.0	2.5	3.0	04.0	3.0	1.5	3.0	2.5	1.5	04.0	-001.6035675
1.5	1.5	3.0	2.5	4.0	01.0	3.0	1.5	4.0	2.5	1.5	01.0	002.6186147
1.5	1.5	3.0	2.5	4.0	03.0	3.0	1.5	4.0	2.5	1.5	03.0	-001.6035675
1.5	1.5	3.0	3.5	2.0	03.0	3.0	1.5	2.0	3.5	1.5	03.0	-000.5520525
1.5	1.5	3.0	3.5	2.0	05.0	3.0	1.5	2.0	3.5	1.5	05.0	003.0860670
1.5	1.5	3.0	3.5	3.0	02.0	3.0	1.5	3.0	3.5	1.5	02.0	-000.5520525
1.5	1.5	3.0	3.5	3.0	04.0	3.0	1.5	3.0	3.5	1.5	04.0	001.8516402
1.5	1.5	3.0	3.5	4.0	03.0	3.0	1.5	4.0	3.5	1.5	03.0	001.8516402
1.5	1.5	3.0	3.5	4.0	05.0	3.0	1.5	4.0	3.5	1.5	05.0	-001.6561574
1.5	1.5	3.0	3.5	5.0	02.0	3.0	1.5	5.0	3.5	1.5	02.0	003.0860670
1.5	1.5	3.0	3.5	5.0	04.0	3.0	1.5	5.0	3.5	1.5	04.0	-001.6561574
1.5	1.5	3.0	4.5	3.0	04.0	3.0	1.5	3.0	4.5	1.5	04.0	-000.7385489
1.5	1.5	3.0	4.5	3.0	06.0	3.0	1.5	3.0	4.5	1.5	06.0	003.4815531
1.5	1.5	3.0	4.5	4.0	03.0	3.0	1.5	4.0	4.5	1.5	03.0	-000.7385489
1.5	1.5	3.0	4.5	4.0	05.0	3.0	1.5	4.0	4.5	1.5	05.0	002.0889319
1.5	1.5	3.0	4.5	5.0	04.0	3.0	1.5	5.0	4.5	1.5	04.0	002.0889319
1.5	1.5	3.0	4.5	5.0	06.0	3.0	1.5	5.0	4.5	1.5	06.0	-001.7232809
1.5	1.5	3.0	4.5	6.0	03.0	3.0	1.5	6.0	4.5	1.5	03.0	003.4815531
1.5	1.5	3.0	4.5	6.0	05.0	3.0	1.5	6.0	4.5	1.5	05.0	-001.7232809
1.5	2.5	1.0	0.5	1.0	02.0	1.0	2.5	1.0	0.5	1.5	02.0	001.8973666
1.5	2.5	1.0	0.5	2.0	03.0	1.0	2.5	2.0	0.5	1.5	03.0	001.8973666
1.5	2.5	1.0	1.5	0.0	01.0	1.0	2.5	0.0	1.5	1.5	01.0	002.4494898
1.5	2.5	1.0	1.5	1.0	02.0	1.0	2.5	1.0	1.5	1.5	02.0	002.2449945
1.5	2.5	1.0	1.5	2.0	01.0	1.0	2.5	2.0	1.5	1.5	01.0	-000.4898980
1.5	2.5	1.0	1.5	2.0	03.0	1.0	2.5	2.0	1.5	1.5	03.0	002.4000000
1.5	2.5	1.0	1.5	3.0	02.0	1.0	2.5	3.0	1.5	1.5	02.0	-000.3207135
1.5	2.5	1.0	1.5	3.0	04.0	1.0	2.5	3.0	1.5	1.5	04.0	002.6186147
1.5	2.5	1.0	2.5	1.0	00.0	1.0	2.5	1.0	2.5	1.5	00.0	-002.4494897
1.5	2.5	1.0	2.5	1.0	02.0	1.0	2.5	1.0	2.5	1.5	02.0	001.8330303
1.5	2.5	1.0	2.5	2.0	01.0	1.0	2.5	2.0	2.5	1.5	01.0	-001.4696939
1.5	2.5	1.0	2.5	2.0	03.0	1.0	2.5	2.0	2.5	1.5	03.0	002.3567532
1.5	2.5	1.0	2.5	3.0	02.0	1.0	2.5	3.0	2.5	1.5	02.0	-000.9621405
1.5	2.5	1.0	2.5	3.0	04.0	1.0	2.5	3.0	2.5	1.5	04.0	002.7774603
1.5	2.5	1.0	2.5	4.0	03.0	1.0	2.5	4.0	2.5	1.5	03.0	-000.5345225
1.5	2.5	1.0	2.5	4.0	05.0	1.0	2.5	4.0	2.5	1.5	05.0	003.1622777
1.5	2.5	1.0	3.5	2.0	01.0	1.0	2.5	2.0	3.5	1.5	01.0	-003.0983867
1.5	2.5	1.0	3.5	2.0	03.0	1.0	2.5	2.0	3.5	1.5	03.0	001.7566202
1.5	2.5	1.0	3.5	3.0	02.0	1.0	2.5	3.0	3.5	1.5	02.0	-002.0283702
1.5	2.5	1.0	3.5	3.0	04.0	1.0	2.5	3.0	3.5	1.5	04.0	002.5071327

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L	Z
1.5	2.5	1.0	3.5	4.0	03.0	1.0	2.5	4.0	3.5	1.5	03.0	-001.3093073
1.5	2.5	1.0	3.5	4.0	05.0	1.0	2.5	4.0	3.5	1.5	05.0	003.0923867
1.5	2.5	1.0	3.5	5.0	04.0	1.0	2.5	5.0	3.5	1.5	04.0	-000.7135061
1.5	2.5	1.0	3.5	5.0	06.0	1.0	2.5	5.0	3.5	1.5	06.0	003.6181362
1.5	2.5	1.0	4.5	3.0	02.0	1.0	2.5	3.0	4.5	1.5	02.0	-003.5856859
1.5	2.5	1.0	4.5	3.0	04.0	1.0	2.5	3.0	4.5	1.5	04.0	001.7728105
1.5	2.5	1.0	4.5	4.0	03.0	1.0	2.5	4.0	4.5	1.5	03.0	-002.4494898
1.5	2.5	1.0	4.5	4.0	05.0	1.0	2.5	4.0	4.5	1.5	05.0	002.6628761
1.5	2.5	1.0	4.5	5.0	04.0	1.0	2.5	5.0	4.5	1.5	04.0	-001.5954481
1.5	2.5	1.0	4.5	5.0	06.0	1.0	2.5	5.0	4.5	1.5	06.0	003.3844565
1.5	2.5	1.0	4.5	6.0	05.0	1.0	2.5	6.0	4.5	1.5	05.0	-000.8690482
1.5	2.5	1.0	4.5	6.0	07.0	1.0	2.5	6.0	4.5	1.5	07.0	004.0191848
1.5	2.5	2.0	0.5	1.0	03.0	2.0	2.5	1.0	0.5	1.5	03.0	000.9258201
1.5	2.5	2.0	0.5	2.0	02.0	2.0	2.5	2.0	0.5	1.5	02.0	000.9258201
1.5	2.5	2.0	1.5	1.0	02.0	2.0	2.5	0.0	1.5	1.5	02.0	002.4494898
1.5	2.5	2.0	1.5	1.0	01.0	2.0	2.5	1.0	1.5	1.5	01.0	002.2449945
1.5	2.5	2.0	1.5	1.0	03.0	2.0	2.5	1.0	1.5	1.5	03.0	002.0948918
1.5	2.5	2.0	1.5	2.0	02.0	2.0	2.5	2.0	1.5	1.5	02.0	001.7496355
1.5	2.5	2.0	1.5	2.0	04.0	2.0	2.5	2.0	1.5	1.5	04.0	001.7142857
1.5	2.5	2.0	1.5	3.0	01.0	2.0	2.5	3.0	1.5	1.5	01.0	-000.3207135
1.5	2.5	2.0	1.5	3.0	03.0	2.0	2.5	3.0	1.5	1.5	03.0	001.5711688
1.5	2.5	2.0	2.5	1.0	01.0	2.0	2.5	1.0	2.5	1.5	01.0	-001.4696939
1.5	2.5	2.0	2.5	1.0	03.0	2.0	2.5	1.0	2.5	1.5	03.0	002.3567532
1.5	2.5	2.0	2.5	2.0	00.0	2.0	2.5	2.0	2.5	1.5	00.0	-002.4494897
1.5	2.5	2.0	2.5	2.0	02.0	2.0	2.5	2.0	2.5	1.5	02.0	000.9352195
1.5	2.5	2.0	2.5	2.0	04.0	2.0	2.5	2.0	2.5	1.5	04.0	002.5917564
1.5	2.5	2.0	2.5	3.0	01.0	2.0	2.5	3.0	2.5	1.5	01.0	-001.3714286
1.5	2.5	2.0	2.5	3.0	03.0	2.0	2.5	3.0	2.5	1.5	03.0	001.8173765
1.5	2.5	2.0	2.5	3.0	05.0	2.0	2.5	3.0	2.5	1.5	05.0	002.2587698
1.5	2.5	2.0	2.5	4.0	02.0	2.0	2.5	4.0	2.5	1.5	02.0	-000.6872432
1.5	2.5	2.0	2.5	4.0	04.0	2.0	2.5	4.0	2.5	1.5	04.0	001.9839002
1.5	2.5	2.0	3.5	2.0	02.0	2.0	2.5	2.0	3.5	1.5	02.0	-001.9438173
1.5	2.5	2.0	3.5	2.0	04.0	2.0	2.5	2.0	3.5	1.5	04.0	002.4026225
1.5	2.5	2.0	3.5	3.0	01.0	2.0	2.5	3.0	3.5	1.5	01.0	-002.9692300
1.5	2.5	2.0	3.5	3.0	03.0	2.0	2.5	3.0	3.5	1.5	03.0	000.4364358
1.5	2.5	2.0	3.5	3.0	05.0	2.0	2.5	3.0	3.5	1.5	05.0	002.9508445
1.5	2.5	2.0	3.5	4.0	02.0	2.0	2.5	4.0	3.5	1.5	02.0	-001.9317812
1.5	2.5	2.0	3.5	4.0	04.0	2.0	2.5	4.0	3.5	1.5	04.0	001.8559294
1.5	2.5	2.0	3.5	4.0	06.0	2.0	2.5	4.0	3.5	1.5	06.0	002.6967995
1.5	2.5	2.0	3.5	5.0	03.0	2.0	2.5	5.0	3.5	1.5	03.0	-000.9759001
1.5	2.5	2.0	3.5	5.0	05.0	2.0	2.5	5.0	3.5	1.5	05.0	002.3094011
1.5	2.5	2.0	4.5	2.0	03.0	2.0	2.5	3.0	4.5	1.5	03.0	-002.2886886
1.5	2.5	2.0	4.5	3.0	05.0	2.0	2.5	3.0	4.5	1.5	05.0	002.4880668
1.5	2.5	2.0	4.5	4.0	02.0	2.0	2.5	4.0	4.5	1.5	02.0	-003.3502970
1.5	2.5	2.0	4.5	4.0	04.0	2.0	2.5	4.0	4.5	1.5	04.0	000.1232056
1.5	2.5	2.0	4.5	4.0	06.0	2.0	2.5	4.0	4.5	1.5	06.0	003.2524625
1.5	2.5	2.0	4.5	5.0	03.0	2.0	2.5	5.0	4.5	1.5	03.0	-002.3539596
1.5	2.5	2.0	4.5	5.0	05.0	2.0	2.5	5.0	4.5	1.5	05.0	001.8946619
1.5	2.5	2.0	4.5	5.0	07.0	2.0	2.5	5.0	4.5	1.5	07.0	003.0725494
1.5	2.5	2.0	4.5	6.0	04.0	2.0	2.5	6.0	4.5	1.5	04.0	-001.2196735
1.5	2.5	2.0	4.5	6.0	06.0	2.0	2.5	6.0	4.5	1.5	06.0	002.5873181
1.5	2.5	3.0	0.5	1.0	02.0	3.0	2.5	1.0	0.5	1.5	02.0	-001.5491934
1.5	2.5	3.0	0.5	2.0	03.0	3.0	2.5	2.0	0.5	1.5	03.0	-001.5491933
1.5	2.5	3.0	1.5	1.0	03.0	3.0	2.5	0.0	1.5	1.5	03.0	002.4494898
1.5	2.5	3.0	1.5	1.0	02.0	3.0	2.5	1.0	1.5	1.5	02.0	002.0948918

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.5	2.5	3.0	1.5	1.0	04.0	3.0	2.5	1.0	1.5	1.5	04.0	001.6035675
1.5	2.5	3.0	1.5	2.0	01.0	3.0	2.5	2.0	1.5	1.5	01.0	002.4000000
1.5	2.5	3.0	1.5	2.0	02.0	3.0	2.5	2.0	1.5	1.5	03.0	000.4898980
1.5	2.5	3.0	1.5	3.0	02.0	3.0	2.5	3.0	1.5	1.5	02.0	001.5711688
1.5	2.5	3.0	1.5	3.0	04.0	3.0	2.5	3.0	1.5	1.5	04.0	-001.6035675
1.5	2.5	3.0	2.5	1.0	02.0	3.0	2.5	1.0	2.5	1.5	02.0	-000.9621405
1.5	2.5	3.0	2.5	1.0	04.0	3.0	2.5	1.0	2.5	1.5	04.0	002.7774603
1.5	2.5	3.0	2.5	2.0	01.0	3.0	2.5	2.0	2.5	1.5	01.0	-001.3714286
1.5	2.5	3.0	2.5	2.0	03.0	3.0	2.5	2.0	2.5	1.5	03.0	001.8173765
1.5	2.5	3.0	2.5	2.0	05.0	3.0	2.5	2.0	2.5	1.5	05.0	002.2587698
1.5	2.5	3.0	2.5	3.0	00.0	3.0	2.5	3.0	2.5	1.5	00.0	-002.4494897
1.5	2.5	3.0	2.5	3.0	02.0	3.0	2.5	3.0	2.5	1.5	02.0	001.4402381
1.5	2.5	3.0	2.5	3.0	04.0	3.0	2.5	3.0	2.5	1.5	04.0	001.1338934
1.5	2.5	3.0	2.5	4.0	01.0	3.0	2.5	4.0	2.5	1.5	01.0	-001.0497813
1.5	2.5	3.0	2.5	4.0	03.0	3.0	2.5	4.0	2.5	1.5	03.0	001.9637610
1.5	2.5	3.0	2.5	4.0	05.0	3.0	2.5	4.0	2.5	1.5	05.0	-001.6598500
1.5	2.5	3.0	3.5	2.0	01.0	3.0	2.5	2.0	3.5	1.5	01.0	000.2710524
1.5	2.5	3.0	3.5	2.0	03.0	3.0	2.5	2.0	3.5	1.5	03.0	-001.4342743
1.5	2.5	3.0	3.5	2.0	05.0	3.0	2.5	2.0	3.5	1.5	05.0	003.0304577
1.5	2.5	3.0	3.5	3.0	02.0	3.0	2.5	3.0	3.5	1.5	02.0	-001.7941705
1.5	2.5	3.0	3.5	2.0	04.0	3.0	2.5	3.0	3.5	1.5	04.0	001.6748716
1.5	2.5	3.0	3.5	3.0	06.0	3.0	2.5	3.0	3.5	1.5	06.0	002.7524094
1.5	2.5	3.0	3.5	4.0	01.0	3.0	2.5	4.0	3.5	1.5	01.0	-003.0304577
1.5	2.5	3.0	3.5	4.0	03.0	3.0	2.5	4.0	3.5	1.5	03.0	001.0690450
1.5	2.5	3.0	3.5	4.0	05.0	3.0	2.5	4.0	3.5	1.5	05.0	001.5359634
1.5	2.5	3.0	3.5	5.0	02.0	3.0	2.5	5.0	3.5	1.5	02.0	-001.5430335
1.5	2.5	3.0	3.5	5.0	04.0	3.0	2.5	5.0	3.5	1.5	04.0	002.2470760
1.5	2.5	3.0	3.5	5.0	06.0	3.0	2.5	5.0	3.5	1.5	06.0	-001.7232809
1.5	2.5	3.0	4.5	3.0	02.0	3.0	2.5	3.0	4.5	1.5	02.0	000.4879500
1.5	2.5	3.0	4.5	3.0	04.0	3.0	2.5	3.0	4.5	1.5	04.0	-001.7764696
1.5	2.5	3.0	4.5	3.0	06.0	3.0	2.5	3.0	4.5	1.5	06.0	003.2566947
1.5	2.5	3.0	4.5	4.0	03.0	3.0	2.5	4.0	4.5	1.5	03.0	-002.0909091
1.5	2.5	3.0	4.5	4.0	05.0	3.0	2.5	4.0	4.5	1.5	05.0	001.5888598
1.5	2.5	3.0	4.5	4.0	07.0	3.0	2.5	4.0	4.5	1.5	07.0	002.1642874
1.5	2.5	3.0	4.5	5.0	02.0	3.0	2.5	5.0	4.5	1.5	02.0	-003.4503278
1.5	2.5	3.0	4.5	5.0	04.0	3.0	2.5	5.0	4.5	1.5	04.0	000.2374358
1.5	2.5	3.0	4.5	5.0	06.0	3.0	2.5	5.0	4.5	1.5	06.0	001.8422648
1.5	2.5	3.0	4.5	6.0	03.0	3.0	2.5	6.0	4.5	1.5	03.0	-001.9284730
1.5	2.5	3.0	4.5	6.0	05.0	3.0	2.5	6.0	4.5	1.5	05.0	002.4835121
1.5	2.5	3.0	4.5	6.0	07.0	3.0	2.5	6.0	4.5	1.5	07.0	-001.7899913
1.5	2.5	4.0	0.5	1.0	02.0	4.0	2.5	1.0	0.5	1.5	02.0	-002.2677869
1.5	2.5	4.0	0.5	2.0	02.0	4.0	2.5	2.0	0.5	1.5	02.0	-002.2677869
1.5	2.5	4.0	1.5	0.0	04.0	4.0	2.5	0.0	1.5	1.5	04.0	002.4494898
1.5	2.5	4.0	1.5	1.0	03.0	4.0	2.5	1.0	1.5	1.5	03.0	001.6035675
1.5	2.5	4.0	1.5	2.0	02.0	4.0	2.5	2.0	1.5	1.5	02.0	001.7142857
1.5	2.5	4.0	1.5	2.0	04.0	4.0	2.5	2.0	1.5	1.5	04.0	-001.7496355
1.5	2.5	4.0	1.5	3.0	01.0	4.0	2.5	3.0	1.5	1.5	01.0	002.6186147
1.5	2.5	4.0	1.5	3.0	02.0	4.0	2.5	3.0	1.5	1.5	03.0	-001.6035675
1.5	2.5	4.0	2.5	1.0	02.0	4.0	2.5	1.0	2.5	1.5	03.0	-000.5345225
1.5	2.5	4.0	2.5	1.0	05.0	4.0	2.5	1.0	2.5	1.5	05.0	003.1622777
1.5	2.5	4.0	2.5	2.0	02.0	4.0	2.5	2.0	2.5	1.5	02.0	-000.6872432
1.5	2.5	4.0	2.5	2.0	04.0	4.0	2.5	2.0	2.5	1.5	04.0	001.9839002
1.5	2.5	4.0	2.5	3.0	01.0	4.0	2.5	3.0	2.5	1.5	01.0	-001.0497813
1.5	2.5	4.0	2.5	2.0	03.0	4.0	2.5	3.0	2.5	1.5	03.0	001.9639610
1.5	2.5	4.0	2.5	3.0	05.0	4.0	2.5	3.0	2.5	1.5	05.0	-001.6598500

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L	Z
1.5	2.5	4.0	2.5	4.0	00.0	4.0	2.5	4.0	2.5	1.5	00.0	-002.4494897
1.5	2.5	4.0	2.5	4.0	02.0	4.0	2.5	4.0	2.5	1.5	02.0	002.3380488
1.5	2.5	4.0	2.5	4.0	04.0	4.0	2.5	4.0	2.5	1.5	04.0	-001.4578630
1.5	2.5	4.0	3.5	2.0	02.0	4.0	2.5	2.0	3.5	1.5	02.0	000.1322600
1.5	2.5	4.0	3.5	2.0	04.0	4.0	2.5	2.0	3.5	1.5	04.0	-000.8916968
1.5	2.5	4.0	3.5	2.0	06.0	4.0	2.5	2.0	3.5	1.5	06.0	003.6927448
1.5	2.5	4.0	3.5	3.0	01.0	4.0	2.5	3.0	3.5	1.5	01.0	000.2020305
1.5	2.5	4.0	3.5	3.0	03.0	4.0	2.5	3.0	3.5	1.5	03.0	-001.0690450
1.5	2.5	4.0	3.5	3.0	05.0	4.0	2.5	3.0	3.5	1.5	05.0	002.2587693
1.5	2.5	4.0	3.5	4.0	02.0	4.0	2.5	4.0	3.5	1.5	02.0	-001.4787119
1.5	2.5	4.0	3.5	4.0	04.0	4.0	2.5	4.0	3.5	1.5	04.0	002.1534063
1.5	2.5	4.0	3.5	4.0	06.0	4.0	2.5	4.0	3.5	1.5	06.0	-001.6514456
1.5	2.5	4.0	3.5	5.0	01.0	4.0	2.5	5.0	3.5	1.5	01.0	-003.1622777
1.5	2.5	4.0	3.5	5.0	03.0	4.0	2.5	5.0	3.5	1.5	03.0	002.3904572
1.5	2.5	4.0	3.5	5.0	05.0	4.0	2.5	5.0	3.5	1.5	05.0	-001.4142136
1.5	2.5	4.0	4.5	3.0	03.0	4.0	2.5	3.0	4.5	1.5	03.0	000.2548236
1.5	2.5	4.0	4.5	3.0	05.0	4.0	2.5	3.0	4.5	1.5	05.0	-001.1720181
1.5	2.5	4.0	4.5	3.0	07.0	4.0	2.5	3.0	4.5	1.5	07.0	004.1391868
1.5	2.5	4.0	4.5	4.0	02.0	4.0	2.5	4.0	4.5	1.5	02.0	000.3730235
1.5	2.5	4.0	4.5	4.0	04.0	4.0	2.5	4.0	4.5	1.5	04.0	-001.3580591
1.5	2.5	4.0	4.5	4.0	06.0	4.0	2.5	4.0	4.5	1.5	06.0	002.4896480
1.5	2.5	4.0	4.5	5.0	03.0	4.0	2.5	5.0	4.5	1.5	03.0	-001.8018749
1.5	2.5	4.0	4.5	5.0	05.0	4.0	2.5	5.0	4.5	1.5	05.0	002.3204774
1.5	2.5	4.0	4.5	5.0	07.0	4.0	2.5	5.0	4.5	1.5	07.0	-001.6724840
1.5	2.5	4.0	4.5	6.0	02.0	4.0	2.5	6.0	4.5	1.5	02.0	-003.6927448
1.5	2.5	4.0	4.5	6.0	04.0	4.0	2.5	6.0	4.5	1.5	04.0	002.4896480
1.5	2.5	4.0	4.5	6.0	06.0	4.0	2.5	6.0	4.5	1.5	06.0	-001.4083576
1.5	3.5	2.0	0.5	1.0	03.0	2.0	3.5	1.0	0.5	1.5	03.0	002.2677869
1.5	3.5	2.0	0.5	2.0	04.0	2.0	3.5	2.0	0.5	1.5	04.0	002.2677868
1.5	3.5	2.0	1.5	0.0	02.0	2.0	3.5	0.0	1.5	1.5	02.0	002.8284272
1.5	3.5	2.0	1.5	1.0	03.0	2.0	3.5	1.0	1.5	1.5	03.0	002.4842361
1.5	3.5	2.0	1.5	2.0	02.0	2.0	3.5	2.0	1.5	1.5	02.0	-000.8031220
1.5	3.5	2.0	1.5	2.0	04.0	2.0	3.5	2.0	1.5	1.5	04.0	002.7105237
1.5	3.5	2.0	1.5	3.0	03.0	2.0	3.5	3.0	1.5	1.5	03.0	-000.5520525
1.5	3.5	2.0	1.5	3.0	05.0	2.0	3.5	3.0	1.5	1.5	05.0	003.0860670
1.5	3.5	2.0	2.5	1.0	01.0	2.0	3.5	1.0	2.5	1.5	01.0	-003.0983867
1.5	3.5	2.0	2.5	1.0	03.0	2.0	3.5	1.0	2.5	1.5	03.0	001.7566202
1.5	3.5	2.0	2.5	2.0	02.0	2.0	3.5	2.0	2.5	1.5	02.0	-001.9438173
1.5	3.5	2.0	2.5	2.0	04.0	2.0	3.5	2.0	2.5	1.5	04.0	002.4026225
1.5	3.5	2.0	2.5	3.0	01.0	2.0	3.5	3.0	2.5	1.5	01.0	000.2710524
1.5	3.5	2.0	2.5	3.0	03.0	2.0	3.5	3.0	2.5	1.5	03.0	-001.4342743
1.5	3.5	2.0	2.5	3.0	05.0	2.0	3.5	3.0	2.5	1.5	05.0	003.0304577
1.5	3.5	2.0	2.5	4.0	02.0	2.0	3.5	4.0	2.5	1.5	02.0	000.1322600
1.5	3.5	2.0	2.5	4.0	04.0	2.0	3.5	4.0	2.5	1.5	04.0	-000.8916968
1.5	3.5	2.0	2.5	4.0	06.0	2.0	3.5	4.0	2.5	1.5	06.0	003.6927448
1.5	3.5	2.0	3.5	2.0	00.0	2.0	3.5	2.0	3.5	1.5	00.0	002.8284271
1.5	3.5	2.0	3.5	2.0	02.0	2.0	3.5	2.0	3.5	1.5	02.0	-002.6452003
1.5	3.5	2.0	3.5	2.0	04.0	2.0	3.5	2.0	3.5	1.5	04.0	001.5195519
1.5	3.5	2.0	3.5	3.0	01.0	2.0	3.5	3.0	3.5	1.5	01.0	001.2121831
1.5	3.5	2.0	3.5	3.0	03.0	2.0	3.5	3.0	3.5	1.5	03.0	-002.3637474
1.5	3.5	2.0	3.5	3.0	05.0	2.0	3.5	3.0	3.5	1.5	05.0	002.4281045
1.5	3.5	2.0	3.5	4.0	02.0	2.0	3.5	4.0	3.5	1.5	02.0	000.5914848
1.5	3.5	2.0	3.5	4.0	04.0	2.0	3.5	4.0	3.5	1.5	04.0	-001.8533571
1.5	3.5	2.0	3.5	4.0	06.0	2.0	3.5	4.0	3.5	1.5	06.0	003.3028913
1.5	3.5	2.0	3.5	5.0	03.0	2.0	3.5	5.0	3.5	1.5	03.0	000.2402500

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.5	3.5	2.0	3.5	5.0	05.0	2.0	3.5	5.0	3.5	1.5	05.0	-001.1694107
1.5	3.5	2.0	3.5	5.0	07.0	2.0	3.5	5.0	3.5	1.5	07.0	004.1979016
1.5	3.5	2.0	4.5	3.0	01.0	2.0	3.5	3.0	4.5	1.5	01.0	003.5856853
1.5	3.5	2.0	4.5	3.0	03.0	2.0	3.5	3.0	4.5	1.5	03.0	-002.6427499
1.5	3.5	2.0	4.5	3.0	05.0	2.0	3.5	3.0	4.5	1.5	05.0	001.4364860
1.5	3.5	2.0	4.5	4.0	02.0	2.0	3.5	4.0	4.5	1.5	02.0	001.7496355
1.5	3.5	2.0	4.5	4.0	04.0	2.0	3.5	4.0	4.5	1.5	04.0	-002.6653452
1.5	3.5	2.0	4.5	4.0	06.0	2.0	3.5	4.0	4.5	1.5	06.0	002.4896480
1.5	3.5	2.0	4.5	5.0	07.0	2.0	3.5	5.0	4.5	1.5	03.0	000.8494120
1.5	3.5	2.0	4.5	5.0	05.0	2.0	3.5	5.0	4.5	1.5	05.0	-002.1877671
1.5	3.5	2.0	4.5	5.0	07.0	2.0	3.5	5.0	4.5	1.5	07.0	003.5478744
1.5	3.5	2.0	4.5	6.0	04.0	2.0	3.5	6.0	4.5	1.5	04.0	000.3382765
1.5	3.5	2.0	4.5	6.0	06.0	2.0	3.5	6.0	4.5	1.5	06.0	-001.4083576
1.5	3.5	2.0	4.5	6.0	08.0	2.0	3.5	6.0	4.5	1.5	08.0	004.6409548
1.5	3.5	3.0	0.5	1.0	04.0	3.0	3.5	1.0	0.5	1.5	04.0	001.1547006
1.5	3.5	3.0	0.5	2.0	02.0	3.0	3.5	2.0	0.5	1.5	03.0	001.1547005
1.5	3.5	3.0	1.5	0.0	03.0	3.0	3.5	0.0	1.5	1.5	03.0	002.8284272
1.5	3.5	3.0	1.5	1.0	02.0	3.0	3.5	1.0	1.5	1.5	02.0	002.4842361
1.5	3.5	3.0	1.5	1.0	04.0	3.0	3.5	1.0	1.5	1.5	04.0	002.4638536
1.5	3.5	3.0	1.5	2.0	03.0	3.0	3.5	2.0	1.5	1.5	03.0	001.8856181
1.5	3.5	3.0	1.5	2.0	05.0	3.0	3.5	2.0	1.5	1.5	05.0	002.1081851
1.5	3.5	3.0	1.5	3.0	02.0	3.0	3.5	3.0	1.5	1.5	02.0	-000.5520525
1.5	3.5	3.0	1.5	3.0	04.0	3.0	3.5	3.0	1.5	1.5	04.0	001.8516402
1.5	3.5	3.0	2.5	1.0	02.0	3.0	3.5	1.0	2.5	1.5	02.0	-002.0283702
1.5	3.5	3.0	2.5	1.0	04.0	3.0	3.5	1.0	2.5	1.5	04.0	002.5071327
1.5	3.5	3.0	2.5	2.0	01.0	3.0	3.5	2.0	2.5	1.5	01.0	-002.9692300
1.5	3.5	3.0	2.5	2.0	03.0	3.0	3.5	2.0	2.5	1.5	03.0	000.4364358
1.5	3.5	3.0	2.5	2.0	05.0	3.0	3.5	2.0	2.5	1.5	05.0	002.9508445
1.5	3.5	3.0	2.5	3.0	02.0	3.0	3.5	3.0	2.5	1.5	02.0	-001.7941705
1.5	3.5	3.0	2.5	3.0	04.0	3.0	3.5	3.0	2.5	1.5	04.0	001.6748716
1.5	3.5	3.0	2.5	3.0	06.0	3.0	3.5	3.0	2.5	1.5	06.0	002.7524094
1.5	3.5	3.0	2.5	4.0	01.0	3.0	3.5	4.0	2.5	1.5	01.0	000.2020305
1.5	3.5	3.0	2.5	4.0	03.0	3.0	3.5	4.0	2.5	1.5	03.0	-001.0690450
1.5	3.5	3.0	2.5	4.0	05.0	3.0	3.5	4.0	2.5	1.5	05.0	002.2587698
1.5	3.5	3.0	3.5	2.0	01.0	3.0	3.5	2.0	3.5	1.5	01.0	001.2121831
1.5	3.5	3.0	3.5	2.0	03.0	3.0	3.5	2.0	3.5	1.5	03.0	-002.3637474
1.5	3.5	3.0	3.5	2.0	05.0	3.0	3.5	2.0	3.5	1.5	05.0	002.4281045
1.5	3.5	3.0	3.5	3.0	00.0	3.0	3.5	3.0	3.5	1.5	00.0	002.8284271
1.5	3.5	3.0	3.5	3.0	02.0	3.0	3.5	3.0	3.5	1.5	02.0	-002.0573780
1.5	3.5	3.0	3.5	3.0	04.0	3.0	3.5	3.0	3.5	1.5	04.0	-000.3223292
1.5	3.5	3.0	3.5	3.0	06.0	3.0	3.5	3.0	3.5	1.5	06.0	003.2824398
1.5	3.5	3.0	3.5	4.0	01.0	3.0	3.5	4.0	3.5	1.5	01.0	001.2046772
1.5	3.5	3.0	3.5	4.0	03.0	3.0	3.5	4.0	3.5	1.5	03.0	-002.1622499
1.5	3.5	3.0	3.5	4.0	05.0	3.0	3.5	4.0	3.5	1.5	05.0	001.5035280
1.5	3.5	3.0	3.5	4.0	07.0	3.0	3.5	4.0	3.5	1.5	07.0	003.2650346
1.5	3.5	3.0	3.5	5.0	02.0	3.0	3.5	5.0	3.5	1.5	02.0	000.4600437
1.5	3.5	3.0	3.5	5.0	04.0	3.0	3.5	5.0	3.5	1.5	04.0	-001.4414999
1.5	3.5	3.0	3.5	5.0	06.0	3.0	3.5	5.0	3.5	1.5	06.0	002.5689155
1.5	3.5	3.0	4.5	3.0	02.0	3.0	3.5	3.0	4.5	1.5	02.0	001.7058877
1.5	3.5	3.0	4.5	3.0	04.0	3.0	3.5	3.0	4.5	1.5	04.0	-002.5987010
1.5	3.5	3.0	4.5	3.0	06.0	3.0	3.5	3.0	4.5	1.5	06.0	002.4273969
1.5	3.5	3.0	4.5	4.0	01.0	3.0	3.5	4.0	4.5	1.5	01.0	003.4960295
1.5	3.5	3.0	4.5	4.0	03.0	3.0	3.5	4.0	4.5	1.5	03.0	-001.7248787
1.5	3.5	3.0	4.5	4.0	05.0	3.0	3.5	4.0	4.5	1.5	05.0	-000.7933288
1.5	3.5	3.0	4.5	4.0	07.0	3.0	3.5	4.0	4.5	1.5	07.0	003.5578152

S	J ₁	l ₁	J ₂	l ₂	L	(l ₁	J ₁	l ₂	J ₂	S	L)	Z
1.5	3.5	3.0	4.5	5.0	02.0	3.0	3.5	5.0	4.5	1.5	02.0	001.7545379
1.5	3.5	3.0	4.5	5.0	04.0	3.0	3.5	5.0	4.5	1.5	04.0	-002.4029619
1.5	3.5	3.0	4.5	5.0	06.0	3.0	3.5	5.0	4.5	1.5	06.0	001.3731431
1.5	3.5	3.0	4.5	5.0	08.0	3.0	3.5	5.0	4.5	1.5	08.0	003.7022012
1.5	3.5	3.0	4.5	6.0	03.0	3.0	3.5	6.0	4.5	1.5	03.0	000.6775964
1.5	3.5	3.0	4.5	6.0	05.0	3.0	3.5	6.0	4.5	1.5	05.0	-001.7452344
1.5	3.5	3.0	4.5	6.0	07.0	3.0	3.5	6.0	4.5	1.5	07.0	002.8302247
1.5	3.5	4.0	0.5	1.0	03.0	4.0	3.5	1.0	0.5	1.5	03.0	-001.6903085
1.5	3.5	4.0	0.5	2.0	04.0	4.0	3.5	2.0	0.5	1.5	04.0	-001.6903085
1.5	3.5	4.0	1.5	0.0	04.0	4.0	3.5	0.0	1.5	1.5	04.0	002.8284271
1.5	3.5	4.0	1.5	1.0	03.0	4.0	3.5	1.0	1.5	1.5	03.0	002.4688536
1.5	3.5	4.0	1.5	1.0	05.0	4.0	3.5	1.0	1.5	1.5	05.0	001.9321836
1.5	3.5	4.0	1.5	2.0	02.0	4.0	3.5	2.0	1.5	1.5	02.0	002.7105237
1.5	3.5	4.0	1.5	2.0	04.0	4.0	3.5	2.0	1.5	1.5	04.0	000.8081220
1.5	3.5	4.0	1.5	3.0	03.0	4.0	3.5	3.0	1.5	1.5	03.0	001.8516402
1.5	3.5	4.0	1.5	3.0	05.0	4.0	3.5	3.0	1.5	1.5	05.0	-001.6561574
1.5	3.5	4.0	2.5	1.0	03.0	4.0	3.5	1.0	2.5	1.5	03.0	-001.3093073
1.5	3.5	4.0	2.5	1.0	05.0	4.0	3.5	1.0	2.5	1.5	05.0	003.0983867
1.5	3.5	4.0	2.5	2.0	02.0	4.0	3.5	2.0	2.5	1.5	02.0	-001.9317812
1.5	3.5	4.0	2.5	2.0	04.0	4.0	3.5	2.0	2.5	1.5	04.0	001.8559294
1.5	3.5	4.0	2.5	2.0	06.0	4.0	3.5	2.0	2.5	1.5	06.0	002.6967995
1.5	3.5	4.0	2.5	3.0	01.0	4.0	3.5	3.0	2.5	1.5	01.0	-003.0304577
1.5	3.5	4.0	2.5	3.0	03.0	4.0	3.5	3.0	2.5	1.5	03.0	001.0690450
1.5	3.5	4.0	2.5	3.0	05.0	4.0	3.5	3.0	2.5	1.5	05.0	001.5359634
1.5	3.5	4.0	2.5	4.0	02.0	4.0	3.5	4.0	2.5	1.5	02.0	-001.4787119
1.5	3.5	4.0	2.5	4.0	04.0	4.0	3.5	4.0	2.5	1.5	04.0	002.1534063
1.5	3.5	4.0	2.5	4.0	06.0	4.0	3.5	4.0	2.5	1.5	06.0	-001.6514456
1.5	3.5	4.0	3.5	2.0	02.0	4.0	3.5	2.0	3.5	1.5	02.0	000.5914848
1.5	3.5	4.0	3.5	2.0	04.0	4.0	3.5	2.0	3.5	1.5	04.0	-001.8533571
1.5	3.5	4.0	3.5	2.0	06.0	4.0	3.5	2.0	3.5	1.5	06.0	003.3028913
1.5	3.5	4.0	3.5	3.0	01.0	4.0	3.5	3.0	3.5	1.5	01.0	001.2046772
1.5	3.5	4.0	3.5	3.0	03.0	4.0	3.5	3.0	3.5	1.5	03.0	-002.1622499
1.5	3.5	4.0	3.5	3.0	05.0	4.0	3.5	3.0	3.5	1.5	05.0	001.5035280
1.5	3.5	4.0	3.5	3.0	07.0	4.0	3.5	3.0	3.5	1.5	07.0	003.2650346
1.5	2.5	4.0	3.5	4.0	00.0	4.0	3.5	4.0	3.5	1.5	00.0	002.8284271
1.5	2.5	4.0	3.5	4.0	02.0	4.0	3.5	4.0	3.5	1.5	02.0	-002.2925069
1.5	3.5	4.0	2.5	4.0	04.0	4.0	3.5	4.0	3.5	1.5	04.0	000.4144232
1.5	3.5	4.0	3.5	4.0	06.0	4.0	3.5	4.0	3.5	1.5	06.0	001.9694639
1.5	3.5	4.0	3.5	5.0	01.0	4.0	3.5	5.0	3.5	1.5	01.0	000.9423090
1.5	2.5	4.0	3.5	5.0	03.0	4.0	3.5	5.0	3.5	1.5	03.0	-001.9339751
1.5	3.5	4.0	3.5	5.0	05.0	4.0	3.5	5.0	3.5	1.5	05.0	002.3533936
1.5	3.5	4.0	3.5	5.0	07.0	4.0	3.5	5.0	3.5	1.5	07.0	-001.6687633
1.5	3.5	4.0	4.5	3.0	01.0	4.0	3.5	3.0	4.5	1.5	01.0	-000.1781742
1.5	3.5	4.0	4.5	3.0	03.0	4.0	3.5	3.0	4.5	1.5	03.0	000.9669876
1.5	3.5	4.0	4.5	2.0	05.0	4.0	3.5	3.0	4.5	1.5	05.0	-002.2237480
1.5	3.5	4.0	4.5	3.0	07.0	4.0	3.5	3.0	4.5	1.5	07.0	003.4904688
1.5	3.5	4.0	4.5	4.0	02.0	4.0	3.5	4.0	4.5	1.5	02.0	001.6834763
1.5	2.5	4.0	4.5	4.0	04.0	4.0	3.5	4.0	4.5	1.5	04.0	-002.2922665
1.5	3.5	4.0	4.5	4.0	06.0	4.0	3.5	4.0	4.5	1.5	06.0	001.2618584
1.5	2.5	4.0	4.5	4.0	08.0	4.0	3.5	4.0	4.5	1.5	08.0	003.7357060
1.5	3.5	4.0	4.5	5.0	01.0	4.0	3.5	5.0	4.5	1.5	01.0	003.5276684
1.5	3.5	4.0	4.5	5.0	03.0	4.0	3.5	5.0	4.5	1.5	03.0	-002.0512904
1.5	3.5	4.0	4.5	5.0	05.0	4.0	3.5	5.0	4.5	1.5	05.0	000.0000000
1.5	3.5	4.0	4.5	5.0	07.0	4.0	3.5	5.0	4.5	1.5	07.0	002.2918388
1.5	3.5	4.0	4.5	6.0	02.0	4.0	3.5	6.0	4.5	1.5	02.0	001.4083576

S	J ₁	l ₁	J ₂	l ₂	L	(l ₁	J ₁	l ₂	J ₂ ; S	L)	Z
1.5	3.5	4.0	4.5	6.0	04.0	4.0	3.5	6.0	4.5	1.5 04.0	-002.2692281
1.5	3.5	4.0	4.5	6.0	06.0	4.0	3.5	6.0	4.5	1.5 06.0	002.5193466
1.5	3.5	4.0	4.5	6.0	08.0	4.0	3.5	6.0	4.5	1.5 08.0	-001.6981348
1.5	3.5	5.0	0.5	1.0	04.0	5.0	3.5	1.0	0.5	1.5 04.0	-002.5819889
1.5	3.5	5.0	0.5	2.0	03.0	5.0	3.5	2.0	0.5	1.5 03.0	-002.5819889
1.5	3.5	5.0	1.5	0.0	05.0	5.0	3.5	0.0	1.5	1.5 05.0	002.8284272
1.5	3.5	5.0	1.5	1.0	04.0	5.0	3.5	1.0	1.5	1.5 04.0	001.9321836
1.5	3.5	5.0	1.5	2.0	03.0	5.0	3.5	2.0	1.5	1.5 03.0	002.1081851
1.5	3.5	5.0	1.5	2.0	05.0	5.0	3.5	2.0	1.5	1.5 05.0	-001.8856181
1.5	3.5	5.0	1.5	3.0	02.0	5.0	3.5	3.0	1.5	1.5 02.0	003.0860670
1.5	3.5	5.0	1.5	3.0	04.0	5.0	3.5	3.0	1.5	1.5 04.0	-001.6561574
1.5	3.5	5.0	2.5	1.0	04.0	5.0	3.5	1.0	2.5	1.5 04.0	-000.7135061
1.5	3.5	5.0	2.5	1.0	06.0	5.0	3.5	1.0	2.5	1.5 06.0	003.6181362
1.5	3.5	5.0	2.5	2.0	03.0	5.0	3.5	2.0	2.5	1.5 03.0	-000.9759001
1.5	3.5	5.0	2.5	2.0	05.0	5.0	3.5	2.0	2.5	1.5 05.0	002.3094011
1.5	3.5	5.0	2.5	3.0	02.0	5.0	3.5	3.0	2.5	1.5 02.0	-001.5430335
1.5	3.5	5.0	2.5	3.0	04.0	5.0	3.5	3.0	2.5	1.5 04.0	002.2470760
1.5	3.5	5.0	2.5	3.0	06.0	5.0	3.5	3.0	2.5	1.5 06.0	-001.7232809
1.5	3.5	5.0	2.5	4.0	01.0	5.0	3.5	4.0	2.5	1.5 01.0	-003.1622777
1.5	3.5	5.0	2.5	4.0	03.0	5.0	3.5	4.0	2.5	1.5 03.0	002.3904572
1.5	3.5	5.0	2.5	4.0	05.0	5.0	3.5	4.0	2.5	1.5 05.0	-001.4142136
1.5	3.5	5.0	3.5	2.0	03.0	5.0	3.5	2.0	3.5	1.5 03.0	000.2402500
1.5	3.5	5.0	3.5	2.0	05.0	5.0	3.5	2.0	3.5	1.5 05.0	-001.1694107
1.5	3.5	5.0	3.5	2.0	07.0	5.0	3.5	2.0	3.5	1.5 07.0	004.1979016
1.5	3.5	5.0	3.5	3.0	02.0	5.0	3.5	3.0	3.5	1.5 02.0	000.4600437
1.5	3.5	5.0	3.5	3.0	04.0	5.0	3.5	3.0	3.5	1.5 04.0	-001.4414999
1.5	3.5	5.0	3.5	3.0	06.0	5.0	3.5	3.0	3.5	1.5 06.0	002.5689155
1.5	3.5	5.0	3.5	4.0	01.0	5.0	3.5	4.0	3.5	1.5 01.0	000.9428090
1.5	3.5	5.0	3.5	4.0	03.0	5.0	3.5	4.0	3.5	1.5 03.0	-001.9339751
1.5	3.5	5.0	3.5	4.0	05.0	5.0	3.5	4.0	3.5	1.5 05.0	002.3533936
1.5	3.5	5.0	3.5	4.0	07.0	5.0	3.5	4.0	3.5	1.5 07.0	-001.6687633
1.5	3.5	5.0	3.5	5.0	00.0	5.0	3.5	5.0	3.5	1.5 00.0	002.8284271
1.5	3.5	5.0	3.5	5.0	02.0	5.0	3.5	5.0	3.5	1.5 02.0	-002.8803292
1.5	3.5	5.0	3.5	5.0	04.0	5.0	3.5	5.0	3.5	1.5 04.0	002.2563043
1.5	3.5	5.0	3.5	5.0	06.0	5.0	3.5	5.0	3.5	1.5 06.0	-001.3129759
1.5	3.5	5.0	4.5	3.0	02.0	5.0	3.5	3.0	4.5	1.5 02.0	-000.0693542
1.5	3.5	5.0	4.5	3.0	04.0	5.0	3.5	3.0	4.5	1.5 04.0	000.4469902
1.5	3.5	5.0	4.5	3.0	06.0	5.0	3.5	3.0	4.5	1.5 06.0	-001.5197909
1.5	3.5	5.0	4.5	3.0	08.0	5.0	3.5	3.0	4.5	1.5 08.0	004.6829553
1.5	3.5	5.0	4.5	4.0	01.0	5.0	3.5	4.0	4.5	1.5 01.0	-000.1421338
1.5	3.5	5.0	4.5	4.0	03.0	5.0	3.5	4.0	4.5	1.5 03.0	000.7713892
1.5	3.5	5.0	4.5	4.0	05.0	5.0	3.5	4.0	4.5	1.5 05.0	-001.7739372
1.5	3.5	5.0	4.5	4.0	07.0	5.0	3.5	4.0	4.5	1.5 07.0	002.7844308
1.5	3.5	5.0	4.5	5.0	02.0	5.0	3.5	5.0	4.5	1.5 02.0	001.3731431
1.5	3.5	5.0	4.5	5.0	04.0	5.0	3.5	5.0	4.5	1.5 04.0	-002.2124884
1.5	3.5	5.0	4.5	5.0	06.0	5.0	3.5	5.0	4.5	1.5 06.0	002.4563530
1.5	3.5	5.0	4.5	5.0	08.0	5.0	3.5	5.0	4.5	1.5 08.0	-001.6556747
1.5	3.5	5.0	4.5	6.0	01.0	5.0	3.5	6.0	4.5	1.5 01.0	003.6181361
1.5	3.5	5.0	4.5	6.0	03.0	5.0	3.5	6.0	4.5	1.5 03.0	-002.9696970
1.5	3.5	5.0	4.5	6.0	05.0	5.0	3.5	6.0	4.5	1.5 05.0	002.2299787
1.5	3.5	5.0	4.5	6.0	07.0	5.0	3.5	6.0	4.5	1.5 07.0	-001.2657149
1.5	4.5	3.0	0.5	1.0	04.0	3.0	4.5	1.0	0.5	1.5 04.0	002.5819889
1.5	4.5	3.0	0.5	2.0	05.0	3.0	4.5	2.0	0.5	1.5 05.0	002.5819889
1.5	4.5	3.0	1.5	0.0	03.0	3.0	4.5	0.0	1.5	1.5 03.0	003.1622777
1.5	4.5	3.0	1.5	1.0	04.0	3.0	4.5	1.0	1.5	1.5 04.0	002.7080128

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.5	4.5	3.0	1.5	2.0	03.0	3.0	4.5	2.0	1.5	1.5	03.0	-001.0540926
1.5	4.5	3.0	1.5	2.0	05.0	3.0	4.5	2.0	1.5	1.5	05.0	002.9814240
1.5	4.5	3.0	1.5	3.0	04.0	3.0	4.5	3.0	1.5	1.5	04.0	-000.7385489
1.5	4.5	3.0	1.5	3.0	06.0	3.0	4.5	3.0	1.5	1.5	06.0	003.4815531
1.5	4.5	3.0	2.5	1.0	02.0	3.0	4.5	1.0	2.5	1.5	02.0	-003.5856859
1.5	4.5	3.0	2.5	1.0	04.0	3.0	4.5	1.0	2.5	1.5	04.0	001.7728105
1.5	4.5	3.0	2.5	2.0	03.0	3.0	4.5	2.0	2.5	1.5	03.0	-002.2886886
1.5	4.5	3.0	2.5	2.0	05.0	3.0	4.5	2.0	2.5	1.5	05.0	002.4880668
1.5	4.5	3.0	2.5	3.0	02.0	3.0	4.5	3.0	2.5	1.5	02.0	000.4879500
1.5	4.5	3.0	2.5	3.0	04.0	3.0	4.5	3.0	2.5	1.5	04.0	-001.7764696
1.5	4.5	3.0	2.5	3.0	06.0	3.0	4.5	3.0	2.5	1.5	06.0	003.2566947
1.5	4.5	3.0	2.5	4.0	03.0	3.0	4.5	4.0	2.5	1.5	03.0	000.2548236
1.5	4.5	3.0	2.5	4.0	05.0	3.0	4.5	4.0	2.5	1.5	05.0	-001.1720181
1.5	4.5	3.0	2.5	4.0	07.0	3.0	4.5	4.0	2.5	1.5	07.0	004.1391863
1.5	4.5	3.0	3.5	2.0	01.0	3.0	4.5	2.0	3.5	1.5	01.0	003.5856858
1.5	4.5	3.0	3.5	2.0	03.0	3.0	4.5	2.0	3.5	1.5	03.0	-002.6427499
1.5	4.5	3.0	3.5	2.0	05.0	3.0	4.5	2.0	3.5	1.5	05.0	001.4364860
1.5	4.5	3.0	3.5	3.0	02.0	3.0	4.5	3.0	3.5	1.5	02.0	001.7058877
1.5	4.5	3.0	3.5	3.0	04.0	3.0	4.5	3.0	3.5	1.5	04.0	-002.5987010
1.5	4.5	3.0	3.5	3.0	06.0	3.0	4.5	3.0	3.5	1.5	06.0	002.4273969
1.5	4.5	3.0	3.5	4.0	01.0	3.0	4.5	4.0	3.5	1.5	01.0	-000.1781742
1.5	4.5	3.0	3.5	4.0	03.0	3.0	4.5	4.0	3.5	1.5	03.0	000.9669876
1.5	4.5	3.0	3.5	4.0	05.0	3.0	4.5	4.0	3.5	1.5	05.0	-002.2237480
1.5	4.5	3.0	3.5	4.0	07.0	3.0	4.5	4.0	3.5	1.5	07.0	003.4904688
1.5	4.5	3.0	3.5	5.0	02.0	3.0	4.5	5.0	3.5	1.5	02.0	-000.0693542
1.5	4.5	3.0	3.5	5.0	04.0	3.0	4.5	5.0	3.5	1.5	04.0	000.4469902
1.5	4.5	3.0	3.5	5.0	06.0	3.0	4.5	5.0	3.5	1.5	06.0	-001.5197909
1.5	4.5	3.0	3.5	5.0	08.0	3.0	4.5	5.0	3.5	1.5	08.0	004.6829553
1.5	4.5	3.0	4.5	3.0	00.0	3.0	4.5	3.0	4.5	1.5	00.0	-003.1622777
1.5	4.5	3.0	4.5	3.0	02.0	3.0	4.5	3.0	4.5	1.5	02.0	003.1914237
1.5	4.5	3.0	4.5	3.0	04.0	3.0	4.5	3.0	4.5	1.5	04.0	-002.4308622
1.5	4.5	3.0	4.5	3.0	06.0	3.0	4.5	3.0	4.5	1.5	06.0	001.2974982
1.5	4.5	3.0	4.5	4.0	01.0	3.0	4.5	4.0	4.5	1.5	01.0	-001.0540926
1.5	4.5	3.0	4.5	4.0	03.0	3.0	4.5	4.0	4.5	1.5	03.0	002.1987976
1.5	4.5	3.0	4.5	4.0	05.0	3.0	4.5	4.0	4.5	1.5	05.0	-002.8048410
1.5	4.5	3.0	4.5	4.0	07.0	3.0	4.5	4.0	4.5	1.5	07.0	002.4256989
1.5	4.5	3.0	4.5	5.0	02.0	3.0	4.5	5.0	4.5	1.5	02.0	-000.4103050
1.5	4.5	3.0	4.5	5.0	04.0	3.0	4.5	5.0	4.5	1.5	04.0	001.3222147
1.5	4.5	3.0	4.5	5.0	06.0	3.0	4.5	5.0	4.5	1.5	06.0	-002.5689155
1.5	4.5	3.0	4.5	5.0	08.0	3.0	4.5	5.0	4.5	1.5	08.0	003.7022012
1.5	4.5	3.0	4.5	6.0	03.0	3.0	4.5	6.0	4.5	1.5	03.0	-000.1328876
1.5	4.5	3.0	4.5	6.0	05.0	3.0	4.5	6.0	4.5	1.5	05.0	000.6170335
1.5	4.5	3.0	4.5	6.0	07.0	3.0	4.5	6.0	4.5	1.5	07.0	-001.8161239
1.5	4.5	3.0	4.5	6.0	09.0	3.0	4.5	6.0	4.5	1.5	09.0	005.1581329
1.5	4.5	4.0	0.5	1.0	05.0	4.0	4.5	1.0	0.5	1.5	05.0	001.3483997
1.5	4.5	4.0	0.5	2.0	04.0	4.0	4.5	2.0	0.5	1.5	04.0	001.3483997
1.5	4.5	4.0	1.5	0.0	04.0	4.0	4.5	0.0	1.5	1.5	04.0	003.1622777
1.5	4.5	4.0	1.5	1.0	03.0	4.0	4.5	1.0	1.5	1.5	03.0	002.7080128
1.5	4.5	4.0	1.5	1.0	05.0	4.0	4.5	1.0	1.5	1.5	05.0	002.7852425
1.5	4.5	4.0	1.5	2.0	04.0	4.0	4.5	2.0	1.5	1.5	04.0	002.0123585
1.5	4.5	4.0	1.5	2.0	06.0	4.0	4.5	2.0	1.5	1.5	06.0	002.4393469
1.5	4.5	4.0	1.5	3.0	03.0	4.0	4.5	3.0	1.5	1.5	03.0	-000.7385489
1.5	4.5	4.0	1.5	3.0	05.0	4.0	4.5	3.0	1.5	1.5	05.0	002.0889319
1.5	4.5	4.0	2.5	1.0	03.0	4.0	4.5	1.0	2.5	1.5	03.0	-002.4494898
1.5	4.5	4.0	2.5	1.0	05.0	4.0	4.5	1.0	2.5	1.5	05.0	002.6628761

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.5	4.5	4.0	2.5	2.0	02.0	4.0	4.5	2.0	2.5	1.5	02.0	-003.3502970
1.5	4.5	4.0	2.5	2.0	04.0	4.0	4.5	2.0	2.5	1.5	04.0	000.1232056
1.5	4.5	4.0	2.5	2.0	06.0	4.0	4.5	2.0	2.5	1.5	06.0	003.2524625
1.5	4.5	4.0	2.5	3.0	03.0	4.0	4.5	3.0	2.5	1.5	03.0	-002.0909091
1.5	4.5	4.0	2.5	3.0	05.0	4.0	4.5	3.0	2.5	1.5	05.0	001.5888598
1.5	4.5	4.0	2.5	3.0	07.0	4.0	4.5	3.0	2.5	1.5	07.0	003.1642874
1.5	4.5	4.0	2.5	4.0	02.0	4.0	4.5	4.0	2.5	1.5	02.0	000.3730235
1.5	4.5	4.0	2.5	4.0	04.0	4.0	4.5	4.0	2.5	1.5	04.0	-001.3580591
1.5	4.5	4.0	2.5	4.0	06.0	4.0	4.5	4.0	2.5	1.5	06.0	002.4896480
1.5	4.5	4.0	3.5	2.0	02.0	4.0	4.5	2.0	3.5	1.5	02.0	001.7496355
1.5	4.5	4.0	3.5	2.0	04.0	4.0	4.5	2.0	3.5	1.5	04.0	-002.6653452
1.5	4.5	4.0	3.5	2.0	06.0	4.0	4.5	2.0	3.5	1.5	06.0	002.4896480
1.5	4.5	4.0	3.5	3.0	01.0	4.0	4.5	3.0	3.5	1.5	01.0	003.4960295
1.5	4.5	4.0	3.5	3.0	03.0	4.0	4.5	3.0	3.5	1.5	03.0	-001.7248787
1.5	4.5	4.0	3.5	3.0	05.0	4.0	4.5	3.0	3.5	1.5	05.0	-000.7933288
1.5	4.5	4.0	3.5	3.0	07.0	4.0	4.5	3.0	3.5	1.5	07.0	003.5578152
1.5	4.5	4.0	3.5	4.0	02.0	4.0	4.5	4.0	3.5	1.5	02.0	001.6834763
1.5	4.5	4.0	3.5	4.0	04.0	4.0	4.5	4.0	3.5	1.5	04.0	-002.2922665
1.5	4.5	4.0	3.5	4.0	06.0	4.0	4.5	4.0	3.5	1.5	06.0	001.2618584
1.5	4.5	4.0	3.5	4.0	08.0	4.0	4.5	4.0	3.5	1.5	08.0	003.7357060
1.5	4.5	4.0	3.5	5.0	01.0	4.0	4.5	5.0	3.5	1.5	01.0	-000.1421338
1.5	4.5	4.0	3.5	5.0	03.0	4.0	4.5	5.0	3.5	1.5	03.0	000.7713892
1.5	4.5	4.0	3.5	5.0	05.0	4.0	4.5	5.0	3.5	1.5	05.0	-001.7739372
1.5	4.5	4.0	3.5	5.0	07.0	4.0	4.5	5.0	3.5	1.5	07.0	002.7844308
1.5	4.5	4.0	4.5	3.0	01.0	4.0	4.5	3.0	4.5	1.5	01.0	-001.0540926
1.5	4.5	4.0	4.5	3.0	03.0	4.0	4.5	3.0	4.5	1.5	03.0	002.1987976
1.5	4.5	4.0	4.5	3.0	05.0	4.0	4.5	3.0	4.5	1.5	05.0	-002.8048410
1.5	4.5	4.0	4.5	3.0	07.0	4.0	4.5	3.0	4.5	1.5	07.0	002.4256989
1.5	4.5	4.0	4.5	4.0	00.0	4.0	4.5	4.0	4.5	1.5	00.0	-003.1622777
1.5	4.5	4.0	4.5	4.0	02.0	4.0	4.5	4.0	4.5	1.5	02.0	002.7694173
1.5	4.5	4.0	4.5	4.0	04.0	4.0	4.5	4.0	4.5	1.5	04.0	-001.0709393
1.5	4.5	4.0	4.5	4.0	06.0	4.0	4.5	4.0	4.5	1.5	06.0	-001.3446800
1.5	4.5	4.0	4.5	4.0	08.0	4.0	4.5	4.0	4.5	1.5	08.0	003.8077841
1.5	4.5	4.0	4.5	5.0	01.0	4.0	4.5	5.0	4.5	1.5	01.0	-001.0841542
1.5	4.5	4.0	4.5	5.0	03.0	4.0	4.5	5.0	4.5	1.5	03.0	002.1527788
1.5	4.5	4.0	4.5	5.0	05.0	4.0	4.5	5.0	4.5	1.5	05.0	-002.3799865
1.5	4.5	4.0	4.5	5.0	07.0	4.0	4.5	5.0	4.5	1.5	07.0	001.0089577
1.5	4.5	4.0	4.5	5.0	09.0	4.0	4.5	5.0	4.5	1.5	09.0	004.2202905
1.5	4.5	4.0	4.5	6.0	02.0	4.0	4.5	6.0	4.5	1.5	02.0	-000.3357041
1.5	4.5	4.0	4.5	6.0	04.0	4.0	4.5	6.0	4.5	1.5	04.0	001.0818120
1.5	4.5	4.0	4.5	6.0	06.0	4.0	4.5	6.0	4.5	1.5	06.0	-002.1018399
1.5	4.5	4.0	4.5	6.0	08.0	4.0	4.5	6.0	4.5	1.5	08.0	003.0290737
1.5	4.5	5.0	0.5	1.0	04.0	5.0	4.5	1.0	0.5	1.5	04.0	-001.8257419
1.5	4.5	5.0	0.5	2.0	05.0	5.0	4.5	2.0	0.5	1.5	05.0	-001.8257419
1.5	4.5	5.0	1.5	0.0	05.0	5.0	4.5	0.0	1.5	1.5	05.0	003.1622777
1.5	4.5	5.0	1.5	1.0	04.0	5.0	4.5	1.0	1.5	1.5	04.0	002.7852425
1.5	4.5	5.0	1.5	1.0	06.0	5.0	4.5	1.0	1.5	1.5	06.0	002.2156469
1.5	4.5	5.0	1.5	2.0	03.0	5.0	4.5	2.0	1.5	1.5	03.0	002.9814240
1.5	4.5	5.0	1.5	2.0	05.0	5.0	4.5	2.0	1.5	1.5	05.0	001.0540926
1.5	4.5	5.0	1.5	3.0	04.0	5.0	4.5	3.0	1.5	1.5	04.0	002.0889319
1.5	4.5	5.0	1.5	3.0	06.0	5.0	4.5	3.0	1.5	1.5	06.0	-001.7232809
1.5	4.5	5.0	2.5	1.0	04.0	5.0	4.5	1.0	2.5	1.5	04.0	-001.5954481
1.5	4.5	5.0	2.5	1.0	06.0	5.0	4.5	1.0	2.5	1.5	06.0	003.3844565
1.5	4.5	5.0	2.5	2.0	03.0	5.0	4.5	2.0	2.5	1.5	03.0	-002.3539596
1.5	4.5	5.0	2.5	2.0	05.0	5.0	4.5	2.0	2.5	1.5	05.0	001.8946619

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.5	4.5	5.0	2.5	2.0	07.0	5.0	4.5	2.0	2.5	1.5	07.0	003.0725494
1.5	4.5	5.0	2.5	3.0	02.0	5.0	4.5	3.0	2.5	1.5	02.0	-003.4503278
1.5	4.5	5.0	2.5	3.0	04.0	5.0	4.5	3.0	2.5	1.5	04.0	000.8374358
1.5	4.5	5.0	2.5	3.0	06.0	5.0	4.5	3.0	2.5	1.5	06.0	001.8422648
1.5	4.5	5.0	2.5	4.0	03.0	5.0	4.5	4.0	2.5	1.5	03.0	-001.8018749
1.5	4.5	5.0	2.5	4.0	05.0	5.0	4.5	4.0	2.5	1.5	05.0	002.3204774
1.5	4.5	5.0	2.5	4.0	07.0	5.0	4.5	4.0	2.5	1.5	07.0	-001.6724840
1.5	4.5	5.0	3.5	2.0	03.0	5.0	4.5	2.0	3.5	1.5	03.0	000.8494120
1.5	4.5	5.0	3.5	2.0	05.0	5.0	4.5	2.0	3.5	1.5	05.0	-002.1877671
1.5	4.5	5.0	3.5	2.0	07.0	5.0	4.5	2.0	3.5	1.5	07.0	003.5478744
1.5	4.5	5.0	3.5	3.0	02.0	5.0	4.5	3.0	3.5	1.5	02.0	001.7545379
1.5	4.5	5.0	3.5	3.0	04.0	5.0	4.5	3.0	3.5	1.5	04.0	-002.4029619
1.5	4.5	5.0	3.5	3.0	06.0	5.0	4.5	3.0	3.5	1.5	06.0	001.3731431
1.5	4.5	5.0	3.5	3.0	08.0	5.0	4.5	3.0	3.5	1.5	08.0	003.7022012
1.5	4.5	5.0	3.5	4.0	01.0	5.0	4.5	4.0	3.5	1.5	01.0	003.5276684
1.5	4.5	5.0	3.5	4.0	03.0	5.0	4.5	4.0	3.5	1.5	03.0	-002.0512904
1.5	4.5	5.0	3.5	4.0	05.0	5.0	4.5	4.0	3.5	1.5	05.0	000.0000000
1.5	4.5	5.0	3.5	4.0	07.0	5.0	4.5	4.0	3.5	1.5	07.0	002.2918388
1.5	4.5	5.0	3.5	5.0	02.0	5.0	4.5	5.0	3.5	1.5	02.0	001.3731431
1.5	4.5	5.0	3.5	5.0	04.0	5.0	4.5	5.0	3.5	1.5	04.0	-002.2124884
1.5	4.5	5.0	3.5	5.0	06.0	5.0	4.5	5.0	3.5	1.5	06.0	002.4563530
1.5	4.5	5.0	3.5	5.0	08.0	5.0	4.5	5.0	3.5	1.5	08.0	-001.6556747
1.5	4.5	5.0	4.5	3.0	02.0	5.0	4.5	3.0	4.5	1.5	02.0	-000.4103050
1.5	4.5	5.0	4.5	3.0	04.0	5.0	4.5	3.0	4.5	1.5	04.0	001.3222147
1.5	4.5	5.0	4.5	3.0	06.0	5.0	4.5	3.0	4.5	1.5	06.0	-002.5689155
1.5	4.5	5.0	4.5	3.0	08.0	5.0	4.5	3.0	4.5	1.5	08.0	003.7022012
1.5	4.5	5.0	4.5	4.0	01.0	5.0	4.5	4.0	4.5	1.5	01.0	-001.0841542
1.5	4.5	5.0	4.5	4.0	03.0	5.0	4.5	4.0	4.5	1.5	03.0	002.1527788
1.5	4.5	5.0	4.5	4.0	05.0	5.0	4.5	4.0	4.5	1.5	05.0	-002.3799865
1.5	4.5	5.0	4.5	4.0	07.0	5.0	4.5	4.0	4.5	1.5	07.0	001.0089577
1.5	4.5	5.0	4.5	4.0	09.0	5.0	4.5	4.0	4.5	1.5	09.0	004.2202905
1.5	4.5	5.0	4.5	5.0	00.0	5.0	4.5	5.0	4.5	1.5	00.0	-003.1622777
1.5	4.5	5.0	4.5	5.0	02.0	5.0	4.5	5.0	4.5	1.5	02.0	002.9012943
1.5	4.5	5.0	4.5	5.0	04.0	5.0	4.5	5.0	4.5	1.5	04.0	-001.4959152
1.5	4.5	5.0	4.5	5.0	06.0	5.0	4.5	5.0	4.5	1.5	06.0	-000.5189993
1.5	4.5	5.0	4.5	5.0	08.0	5.0	4.5	5.0	4.5	1.5	08.0	002.6178516
1.5	4.5	5.0	4.5	6.0	01.0	5.0	4.5	6.0	4.5	1.5	01.0	-000.8624394
1.5	4.5	5.0	4.5	6.0	03.0	5.0	4.5	6.0	4.5	1.5	03.0	001.8417279
1.5	4.5	5.0	4.5	6.0	05.0	5.0	4.5	6.0	4.5	1.5	05.0	-002.4931920
1.5	4.5	5.0	4.5	6.0	07.0	5.0	4.5	6.0	4.5	1.5	07.0	002.5683870
1.5	4.5	5.0	4.5	6.0	09.0	5.0	4.5	6.0	4.5	1.5	09.0	-001.6579867
1.5	4.5	6.0	0.5	1.0	05.0	6.0	4.5	1.0	0.5	1.5	05.0	-002.3603878
1.5	4.5	6.0	0.5	2.0	04.0	6.0	4.5	2.0	0.5	1.5	04.0	-002.8603878
1.5	4.5	6.0	1.5	0.0	06.0	6.0	4.5	0.0	1.5	1.5	06.0	003.1622777
1.5	4.5	6.0	1.5	1.0	05.0	6.0	4.5	1.0	1.5	1.5	05.0	002.2156469
1.5	4.5	6.0	1.5	2.0	04.0	6.0	4.5	2.0	1.5	1.5	04.0	002.4393469
1.5	4.5	6.0	1.5	2.0	06.0	6.0	4.5	2.0	1.5	1.5	06.0	-002.0123585
1.5	4.5	6.0	1.5	3.0	03.0	6.0	4.5	3.0	1.5	1.5	03.0	003.4815531
1.5	4.5	6.0	1.5	3.0	05.0	6.0	4.5	3.0	1.5	1.5	05.0	-001.7232809
1.5	4.5	6.0	2.5	1.0	05.0	6.0	4.5	1.0	2.5	1.5	05.0	-000.8690482
1.5	4.5	6.0	2.5	1.0	07.0	6.0	4.5	1.0	2.5	1.5	07.0	004.0191848
1.5	4.5	6.0	2.5	2.0	04.0	6.0	4.5	2.0	2.5	1.5	04.0	-001.2196735
1.5	4.5	6.0	2.5	2.0	06.0	6.0	4.5	2.0	2.5	1.5	06.0	002.5873181
1.5	4.5	6.0	2.5	3.0	03.0	6.0	4.5	3.0	2.5	1.5	03.0	-001.9284730
1.5	4.5	6.0	2.5	3.0	05.0	6.0	4.5	3.0	2.5	1.5	05.0	002.4835121

S	J ₁	ℓ ₁	J ₂	ℓ ₂	L	(ℓ ₁	J ₁	ℓ ₂	J ₂	S	L)	Z
1.5	4.5	6.0	2.5	3.0	07.0	6.0	4.5	3.0	2.5	1.5	07.0	-001.7899913
1.5	4.5	6.0	2.5	4.0	02.0	6.0	4.5	4.0	2.5	1.5	02.0	-003.6927448
1.5	4.5	6.0	2.5	4.0	04.0	6.0	4.5	4.0	2.5	1.5	04.0	002.4896480
1.5	4.5	6.0	2.5	4.0	06.0	6.0	4.5	4.0	2.5	1.5	06.0	-001.4083576
1.5	4.5	6.0	3.5	2.0	04.0	6.0	4.5	2.0	3.5	1.5	04.0	000.3382765
1.5	4.5	6.0	3.5	2.0	06.0	6.0	4.5	2.0	3.5	1.5	06.0	-001.4083576
1.5	4.5	6.0	3.5	2.0	08.0	6.0	4.5	2.0	3.5	1.5	08.0	004.6409548
1.5	4.5	6.0	3.5	3.0	03.0	6.0	4.5	3.0	3.5	1.5	03.0	000.6775964
1.5	4.5	6.0	3.5	3.0	05.0	6.0	4.5	3.0	3.5	1.5	05.0	-001.7452344
1.5	4.5	6.0	3.5	3.0	07.0	6.0	4.5	3.0	3.5	1.5	07.0	002.8302247
1.5	4.5	6.0	3.5	4.0	02.0	6.0	4.5	4.0	3.5	1.5	02.0	001.4083576
1.5	4.5	6.0	3.5	4.0	04.0	6.0	4.5	4.0	3.5	1.5	04.0	-002.2692281
1.5	4.5	6.0	3.5	4.0	06.0	6.0	4.5	4.0	3.5	1.5	06.0	002.5193466
1.5	4.5	6.0	3.5	4.0	08.0	6.0	4.5	4.0	3.5	1.5	08.0	-001.6981348
1.5	4.5	6.0	3.5	5.0	01.0	6.0	4.5	5.0	3.5	1.5	01.0	003.6181361
1.5	4.5	6.0	3.5	5.0	03.0	6.0	4.5	5.0	3.5	1.5	03.0	-002.9696970
1.5	4.5	6.0	3.5	5.0	05.0	6.0	4.5	5.0	3.5	1.5	05.0	002.2299787
1.5	4.5	6.0	3.5	5.0	07.0	6.0	4.5	5.0	3.5	1.5	07.0	-001.2657149
1.5	4.5	6.0	4.5	3.0	03.0	6.0	4.5	3.0	4.5	1.5	03.0	-000.1328876
1.5	4.5	6.0	4.5	3.0	05.0	6.0	4.5	3.0	4.5	1.5	05.0	000.6170335
1.5	4.5	6.0	4.5	3.0	07.0	6.0	4.5	3.0	4.5	1.5	07.0	-001.8161239
1.5	4.5	6.0	4.5	3.0	09.0	6.0	4.5	3.0	4.5	1.5	09.0	005.1581329
1.5	4.5	6.0	4.5	4.0	02.0	6.0	4.5	4.0	4.5	1.5	02.0	-000.3357041
1.5	4.5	6.0	4.5	4.0	04.0	6.0	4.5	4.0	4.5	1.5	04.0	001.0818120
1.5	4.5	6.0	4.5	4.0	06.0	6.0	4.5	4.0	4.5	1.5	06.0	-002.1018399
1.5	4.5	6.0	4.5	4.0	08.0	6.0	4.5	4.0	4.5	1.5	08.0	003.0290737
1.5	4.5	6.0	4.5	5.0	01.0	6.0	4.5	5.0	4.5	1.5	01.0	-000.8624394
1.5	4.5	6.0	4.5	5.0	03.0	6.0	4.5	5.0	4.5	1.5	03.0	001.8417279
1.5	4.5	6.0	4.5	5.0	05.0	6.0	4.5	5.0	4.5	1.5	05.0	-002.4931920
1.5	4.5	6.0	4.5	5.0	07.0	6.0	4.5	5.0	4.5	1.5	07.0	002.5683870
1.5	4.5	6.0	4.5	5.0	09.0	6.0	4.5	5.0	4.5	1.5	09.0	-001.6578867
1.5	4.5	6.0	4.5	6.0	00.0	6.0	4.5	6.0	4.5	1.5	00.0	-003.1622777
1.5	4.5	6.0	4.5	6.0	02.0	6.0	4.5	6.0	4.5	1.5	02.0	003.3233007
1.5	4.5	6.0	4.5	6.0	04.0	6.0	4.5	6.0	4.5	1.5	04.0	-002.8558381
1.5	4.5	6.0	4.5	6.0	06.0	6.0	4.5	6.0	4.5	1.5	06.0	002.1231789
1.5	4.5	6.0	4.5	6.0	08.0	6.0	4.5	6.0	4.5	1.5	08.0	-001.1899325

VI

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$$H(I; J_1, S'' \ell_1', S \ell_1; J_2, S' \ell_2', S \ell_2, L) =$$

$$(-1)^I - \frac{1}{2} - S - S'' + J_1 - \ell_1' + L \left[(2\ell_1 + 1)(2\ell_2 + 1)(2\ell_1' + 1)(2\ell_2' + 1)(2S' + 1)(2S'' + 1) \right]^{1/2}$$

$$\times (2J_1 + 1)(2J_2 + 1) (\ell_1' \ell_2' / L) (\ell_1 \ell_2 / L) W\left(\frac{1}{2} S'' \frac{1}{2} S'; I 1\right) W(\ell_1 J_1 \ell_2 J_2; S L)$$

$$\times \begin{pmatrix} J_1 & \ell_1' & S'' \\ J_2 & \ell_2' & S' \\ L & L & 1 \end{pmatrix}$$

where I is the spin quantum number of the target, $I = \frac{1}{2}$ and 1 for nucleon-nucleon and nucleon-deuteron scattering, respectively.

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	000.7071068
0.0	0.0	0.0	0.0	0.0	2.0	1.0	2.0	0.0	2.0	2.0	000.9128709
0.0	0.0	0.0	0.0	0.0	3.0	1.0	3.0	0.0	3.0	3.0	001.0801235
0.0	0.0	0.0	0.0	0.0	4.0	1.0	4.0	0.0	4.0	4.0	001.2247449
0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	000.3333333
0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	2.0	1.0	-000.4714045
0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	0.0	1.0	000.2357023
0.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0	1.0	-000.3333333
0.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	2.0	000.4472136
0.0	1.0	1.0	1.0	1.0	2.0	1.0	1.0	1.0	3.0	2.0	-000.5477226
0.0	1.0	1.0	1.0	1.0	2.0	1.0	3.0	1.0	1.0	2.0	000.3651484
0.0	1.0	1.0	1.0	1.0	2.0	1.0	3.0	1.0	3.0	2.0	-000.4472136
0.0	1.0	1.0	1.0	1.0	3.0	1.0	2.0	1.0	2.0	3.0	000.5345225
0.0	1.0	1.0	1.0	1.0	3.0	1.0	2.0	1.0	4.0	3.0	-000.6172134
0.0	1.0	1.0	1.0	1.0	3.0	1.0	4.0	1.0	2.0	3.0	000.4629100
0.0	1.0	1.0	1.0	1.0	3.0	1.0	4.0	1.0	4.0	3.0	-000.5345225
0.0	1.0	1.0	1.0	1.0	4.0	1.0	3.0	1.0	3.0	4.0	000.6085806
0.0	1.0	1.0	1.0	1.0	4.0	1.0	3.0	1.0	5.0	4.0	-000.6804138
0.0	1.0	1.0	1.0	1.0	4.0	1.0	5.0	1.0	3.0	4.0	000.5443310
0.0	1.0	1.0	1.0	1.0	4.0	1.0	5.0	1.0	5.0	4.0	-000.6085805
1.0	0.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	2.0	000.9486833
1.0	0.0	1.0	0.0	1.0	2.0	1.0	2.0	0.0	2.0	1.0	001.2247449
1.0	0.0	1.0	0.0	1.0	2.0	1.0	2.0	0.0	2.0	3.0	001.3093074
1.0	0.0	1.0	0.0	1.0	3.0	1.0	3.0	0.0	3.0	2.0	001.5491933
1.0	0.0	1.0	0.0	1.0	3.0	1.0	3.0	0.0	3.0	4.0	001.5811388
1.0	0.0	1.0	0.0	1.0	4.0	1.0	4.0	0.0	4.0	3.0	001.7928428
1.0	0.0	1.0	0.0	1.0	4.0	1.0	4.0	0.0	4.0	5.0	001.8090680
1.0	0.0	1.0	1.0	1.0	1.0	1.0	0.0	1.0	0.0	1.0	-000.7071068

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
1.0 0.0 1.0 1.0 1.0 1.0 1.0 0.0 1.0 2.0 1.0	-000.5000000				
1.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 2.0	-000.4743416				
1.0 0.0 1.0 1.0 1.0 1.0 1.0 2.0 1.0 0.0 1.0	-000.5000000				
1.0 0.0 1.0 1.0 1.0 1.0 1.0 2.0 1.0 2.0 1.0	-000.3535534				
1.0 0.0 1.0 1.0 1.0 2.0 1.0 1.0 1.0 1.0 2.0	-000.4743416				
1.0 0.0 1.0 1.0 1.0 2.0 1.0 1.0 1.0 3.0 2.0	-000.3872983				
1.0 0.0 1.0 1.0 1.0 2.0 1.0 2.0 1.0 2.0 1.0	001.0606602				
1.0 0.0 1.0 1.0 1.0 2.0 1.0 2.0 1.0 2.0 3.0	-000.7559289				
1.0 0.0 1.0 1.0 1.0 2.0 1.0 3.0 1.0 1.0 2.0	-000.3872983				
1.0 0.0 1.0 1.0 1.0 2.0 1.0 3.0 1.0 3.0 2.0	-000.3162277				
1.0 0.0 1.0 1.0 1.0 3.0 1.0 2.0 1.0 2.0 3.0	-000.3779644				
1.0 0.0 1.0 1.0 1.0 3.0 1.0 2.0 1.0 4.0 3.0	-000.3273268				
1.0 0.0 1.0 1.0 1.0 3.0 1.0 3.0 1.0 3.0 2.0	001.2649110				
1.0 0.0 1.0 1.0 1.0 3.0 1.0 3.0 1.0 3.0 4.0	-000.9682458				
1.0 0.0 1.0 1.0 1.0 3.0 1.0 4.0 1.0 2.0 3.0	-000.3273268				
1.0 0.0 1.0 1.0 1.0 3.0 1.0 4.0 1.0 4.0 3.0	-000.2834734				
1.0 0.0 1.0 1.0 1.0 4.0 1.0 3.0 1.0 3.0 4.0	-000.3227486				
1.0 0.0 1.0 1.0 1.0 4.0 1.0 3.0 1.0 5.0 4.0	-000.2886750				
1.0 0.0 1.0 1.0 1.0 4.0 1.0 4.0 1.0 4.0 3.0	001.4173668				
1.0 0.0 1.0 1.0 1.0 4.0 1.0 4.0 1.0 4.0 5.0	-001.1441551				
1.0 0.0 1.0 1.0 1.0 4.0 1.0 5.0 1.0 3.0 4.0	-000.2886750				
1.0 0.0 1.0 1.0 1.0 4.0 1.0 5.0 1.0 5.0 4.0	-000.2581988				
1.0 1.0 0.0 1.0 0.0 0.0 1.0 1.0 1.0 1.0 1.0	-000.3333333				
1.0 1.0 0.0 1.0 0.0 1.0 0.0 1.0 1.0 1.0 1.0	000.7071068				
1.0 1.0 0.0 1.0 0.0 1.0 1.0 1.0 1.0 1.0 1.0	-000.5000000				
1.0 1.0 0.0 1.0 0.0 1.0 1.0 2.0 1.0 2.0 2.0	-000.6708204				
1.0 1.0 0.0 1.0 0.0 2.0 0.0 2.0 1.0 2.0 2.0	000.9128709				
1.0 1.0 0.0 1.0 0.0 2.0 1.0 1.0 1.0 1.0 1.0	000.8333333				

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
1.0	1.0	0.0	1.0	0.0	2.0	1.0	2.0	1.0	2.0	2.0	-000.3726780
1.0	1.0	0.0	1.0	0.0	2.0	1.0	3.0	1.0	3.0	3.0	-000.8908708
1.0	1.0	0.0	1.0	0.0	3.0	0.0	3.0	1.0	3.0	3.0	001.0801234
1.0	1.0	0.0	1.0	0.0	3.0	1.0	2.0	1.0	2.0	2.0	001.0434984
1.0	1.0	0.0	1.0	0.0	3.0	1.0	3.0	1.0	3.0	3.0	-000.3118048
1.0	1.0	0.0	1.0	0.0	3.0	1.0	4.0	1.0	4.0	4.0	-001.0650161
1.0	1.0	0.0	1.0	0.0	4.0	0.0	4.0	1.0	4.0	4.0	001.2247448
1.0	1.0	0.0	1.0	0.0	4.0	1.0	3.0	1.0	3.0	3.0	001.2026755
1.0	1.0	0.0	1.0	0.0	4.0	1.0	4.0	1.0	4.0	4.0	-000.2738612
1.0	1.0	0.0	1.0	0.0	4.0	1.0	5.0	1.0	5.0	5.0	-001.2135597
1.0	1.0	0.0	1.0	2.0	0.0	1.0	1.0	1.0	1.0	1.0	000.4714045
1.0	1.0	0.0	1.0	2.0	1.0	0.0	1.0	1.0	1.0	1.0	000.5000000
1.0	1.0	0.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	-000.3535534
1.0	1.0	0.0	1.0	2.0	1.0	1.0	2.0	1.0	0.0	2.0	-000.6708204
1.0	1.0	0.0	1.0	2.0	1.0	1.0	2.0	1.0	2.0	2.0	000.4743416
1.0	1.0	0.0	1.0	2.0	2.0	0.0	2.0	1.0	2.0	2.0	000.6454972
1.0	1.0	0.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	-000.1178511
1.0	1.0	0.0	1.0	2.0	2.0	1.0	1.0	1.0	3.0	1.0	000.8660254
1.0	1.0	0.0	1.0	2.0	2.0	1.0	2.0	1.0	2.0	2.0	-000.2635231
1.0	1.0	0.0	1.0	2.0	2.0	1.0	3.0	1.0	1.0	3.0	-000.9258201
1.0	1.0	0.0	1.0	2.0	2.0	1.0	3.0	1.0	3.0	3.0	000.5039526
1.0	1.0	0.0	1.0	2.0	3.0	0.0	3.0	1.0	3.0	3.0	000.7637626
1.0	1.0	0.0	1.0	2.0	3.0	1.0	2.0	1.0	2.0	2.0	-000.2108185
1.0	1.0	0.0	1.0	2.0	3.0	1.0	2.0	1.0	4.0	2.0	001.0954450
1.0	1.0	0.0	1.0	2.0	3.0	1.0	3.0	1.0	3.0	3.0	-000.2204792
1.0	1.0	0.0	1.0	2.0	3.0	1.0	4.0	1.0	2.0	4.0	-001.1180340
1.0	1.0	0.0	1.0	2.0	3.0	1.0	4.0	1.0	4.0	4.0	000.5379143
1.0	1.0	0.0	1.0	2.0	4.0	0.0	4.0	1.0	4.0	4.0	000.8660253

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
1.0	1.0	0.0	1.0	2.0	4.0	1.0	-000.2834733
1.0	1.0	0.0	1.0	2.0	4.0	1.0	001.2677313
1.0	1.0	0.0	1.0	2.0	4.0	1.0	-000.1936491
1.0	1.0	0.0	1.0	2.0	4.0	1.0	-001.2792042
1.0	1.0	0.0	1.0	2.0	4.0	1.0	000.5720775
1.0	1.0	1.0	0.0	1.0	0.0	0.0	-000.7071068
1.0	1.0	1.0	0.0	1.0	1.0	0.0	-000.9486833
1.0	1.0	1.0	0.0	1.0	1.0	1.0	000.0000000
1.0	1.0	1.0	0.0	1.0	2.0	0.0	000.7071068
1.0	1.0	1.0	0.0	1.0	2.0	0.0	-001.1338934
1.0	1.0	1.0	0.0	1.0	2.0	1.0	000.0000000
1.0	1.0	1.0	0.0	1.0	2.0	1.0	000.0000000
1.0	1.0	1.0	0.0	1.0	3.0	0.0	000.9486833
1.0	1.0	1.0	0.0	1.0	3.0	0.0	-001.2909944
1.0	1.0	1.0	0.0	1.0	3.0	1.0	000.0000000
1.0	1.0	1.0	0.0	1.0	3.0	1.0	000.0000000
1.0	1.0	1.0	0.0	1.0	4.0	0.0	001.1338934
1.0	1.0	1.0	0.0	1.0	4.0	0.0	-001.4301938
1.0	1.0	1.0	0.0	1.0	4.0	1.0	000.0000000
1.0	1.0	1.0	0.0	1.0	4.0	1.0	000.0000000
1.0	1.0	1.0	1.0	1.0	1.0	0.0	000.4743416
1.0	1.0	1.0	1.0	1.0	1.0	1.0	000.5000000
1.0	1.0	1.0	1.0	1.0	1.0	1.0	000.3535534
1.0	1.0	1.0	1.0	1.0	1.0	1.0	000.0000000
1.0	1.0	1.0	1.0	1.0	1.0	2.0	-000.7071068
1.0	1.0	1.0	1.0	1.0	1.0	2.0	-000.5000000
1.0	1.0	1.0	1.0	1.0	2.0	0.0	000.6123724
1.0	1.0	1.0	1.0	1.0	2.0	0.0	000.6546537

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
1.0	1.0	1.0	1.0	2.0	1.0	1.0	000.6708204
1.0	1.0	1.0	1.0	2.0	1.0	3.0	000.5477226
1.0	1.0	1.0	1.0	2.0	1.0	2.0	-000.0000000
1.0	1.0	1.0	1.0	2.0	1.0	2.0	000.0000000
1.0	1.0	1.0	1.0	2.0	1.0	1.0	-000.8215838
1.0	1.0	1.0	1.0	2.0	1.0	3.0	-000.6708204
1.0	1.0	1.0	1.0	3.0	0.0	3.0	000.7745967
1.0	1.0	1.0	1.0	3.0	0.0	3.0	000.7905694
1.0	1.0	1.0	1.0	3.0	1.0	2.0	000.8017836
1.0	1.0	1.0	1.0	3.0	1.0	4.0	000.6943651
1.0	1.0	1.0	1.0	3.0	1.0	3.0	-000.0000000
1.0	1.0	1.0	1.0	3.0	1.0	3.0	000.0000000
1.0	1.0	1.0	1.0	3.0	1.0	4.0	-000.9258201
1.0	1.0	1.0	1.0	3.0	1.0	4.0	-000.8017835
1.0	1.0	1.0	1.0	4.0	0.0	4.0	000.8964213
1.0	1.0	1.0	1.0	4.0	0.0	4.0	000.9045340
1.0	1.0	1.0	1.0	4.0	1.0	3.0	000.9128708
1.0	1.0	1.0	1.0	4.0	1.0	5.0	000.8164966
1.0	1.0	1.0	1.0	4.0	1.0	4.0	-000.0000000
1.0	1.0	1.0	1.0	4.0	1.0	4.0	000.0000000
1.0	1.0	1.0	1.0	4.0	1.0	5.0	-001.0206207
1.0	1.0	1.0	1.0	4.0	1.0	5.0	-000.9128710
1.0	1.0	2.0	1.0	0.0	0.0	1.0	-000.2357023
1.0	1.0	2.0	1.0	0.0	1.0	0.0	000.5000000
1.0	1.0	2.0	1.0	0.0	1.0	0.0	000.6708204
1.0	1.0	2.0	1.0	0.0	1.0	1.0	000.7071068
1.0	1.0	2.0	1.0	0.0	1.0	2.0	000.0000000
1.0	1.0	2.0	1.0	0.0	2.0	0.0	000.6454972

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
1.0	1.0	2.0	1.0	0.0	2.0	1.0	-000.4714045
1.0	1.0	2.0	1.0	0.0	2.0	1.0	000.9258201
1.0	1.0	2.0	1.0	0.0	2.0	1.0	000.5270463
1.0	1.0	2.0	1.0	0.0	2.0	1.0	-000.8660254
1.0	1.0	2.0	1.0	0.0	2.0	1.0	000.1259881
1.0	1.0	2.0	1.0	0.0	3.0	0.0	000.7637626
1.0	1.0	2.0	1.0	0.0	3.0	1.0	-000.5270462
1.0	1.0	2.0	1.0	0.0	3.0	1.0	001.1180340
1.0	1.0	2.0	1.0	0.0	3.0	1.0	000.4409586
1.0	1.0	2.0	1.0	0.0	3.0	1.0	-001.0954451
1.0	1.0	2.0	1.0	0.0	3.0	1.0	000.2151656
1.0	1.0	2.0	1.0	0.0	4.0	0.0	000.8660254
1.0	1.0	2.0	1.0	0.0	4.0	1.0	-000.5669467
1.0	1.0	2.0	1.0	0.0	4.0	1.0	001.2792042
1.0	1.0	2.0	1.0	0.0	4.0	1.0	000.3872983
1.0	1.0	2.0	1.0	0.0	4.0	1.0	-001.2677313
1.0	1.0	2.0	1.0	0.0	4.0	1.0	000.2860388
1.0	1.0	2.0	1.0	2.0	0.0	1.0	000.3333333
1.0	1.0	2.0	1.0	2.0	1.0	0.0	000.3535534
1.0	1.0	2.0	1.0	2.0	1.0	0.0	000.6708204
1.0	1.0	2.0	1.0	2.0	1.0	0.0	-000.4743416
1.0	1.0	2.0	1.0	2.0	1.0	1.0	000.5000000
1.0	1.0	2.0	1.0	2.0	1.0	0.0	000.0000000
1.0	1.0	2.0	1.0	2.0	1.0	2.0	000.0000000
1.0	1.0	2.0	1.0	2.0	2.0	0.0	000.4564355
1.0	1.0	2.0	1.0	2.0	2.0	1.0	000.0666666
1.0	1.0	2.0	1.0	2.0	2.0	1.0	000.9621405
1.0	1.0	2.0	1.0	2.0	2.0	1.0	-000.4898980

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
1.0	1.0	2.0	1.0	2.0	2.0	1.0	1.0	1.0	3.0	3.0	-000.5237228
1.0	1.0	2.0	1.0	2.0	2.0	1.0	2.0	1.0	2.0	2.0	000.3726780
1.0	1.0	2.0	1.0	2.0	2.0	1.0	3.0	1.0	1.0	1.0	000.1224744
1.0	1.0	2.0	1.0	2.0	2.0	1.0	3.0	1.0	1.0	3.0	000.1309307
1.0	1.0	2.0	1.0	2.0	2.0	1.0	3.0	1.0	3.0	1.0	-000.9000001
1.0	1.0	2.0	1.0	2.0	2.0	1.0	3.0	1.0	3.0	3.0	-000.0712696
1.0	1.0	2.0	1.0	2.0	3.0	0.0	3.0	1.0	3.0	3.0	000.5400617
1.0	1.0	2.0	1.0	2.0	3.0	1.0	2.0	1.0	2.0	2.0	000.1064795
1.0	1.0	2.0	1.0	2.0	3.0	1.0	2.0	1.0	2.0	4.0	001.1736911
1.0	1.0	2.0	1.0	2.0	3.0	1.0	2.0	1.0	4.0	2.0	-000.5532832
1.0	1.0	2.0	1.0	2.0	3.0	1.0	2.0	1.0	4.0	4.0	-000.5646924
1.0	1.0	2.0	1.0	2.0	3.0	1.0	3.0	1.0	3.0	3.0	000.3118046
1.0	1.0	2.0	1.0	2.0	3.0	1.0	4.0	1.0	2.0	2.0	000.2213133
1.0	1.0	2.0	1.0	2.0	3.0	1.0	4.0	1.0	2.0	4.0	000.2258768
1.0	1.0	2.0	1.0	2.0	3.0	1.0	4.0	1.0	4.0	2.0	-001.1499778
1.0	1.0	2.0	1.0	2.0	3.0	1.0	4.0	1.0	4.0	4.0	-000.1086751
1.0	1.0	2.0	1.0	2.0	4.0	0.0	4.0	1.0	4.0	4.0	000.6123724
1.0	1.0	2.0	1.0	2.0	4.0	1.0	3.0	1.0	3.0	3.0	000.1336306
1.0	1.0	2.0	1.0	2.0	4.0	1.0	3.0	1.0	3.0	5.0	001.3483997
1.0	1.0	2.0	1.0	2.0	4.0	1.0	3.0	1.0	5.0	3.0	-000.5976143
1.0	1.0	2.0	1.0	2.0	4.0	1.0	3.0	1.0	5.0	5.0	-000.6030226
1.0	1.0	2.0	1.0	2.0	4.0	1.0	4.0	1.0	4.0	4.0	000.2738613
1.0	1.0	2.0	1.0	2.0	4.0	1.0	5.0	1.0	3.0	3.0	000.2988072
1.0	1.0	2.0	1.0	2.0	4.0	1.0	5.0	1.0	3.0	5.0	000.3015114
1.0	1.0	2.0	1.0	2.0	4.0	1.0	5.0	1.0	5.0	3.0	-001.3363063
1.0	1.0	2.0	1.0	2.0	4.0	1.0	5.0	1.0	5.0	5.0	-000.1348400
2.0	0.0	2.0	0.0	2.0	1.0	1.0	1.0	0.0	1.0	1.0	-000.7071068
2.0	0.0	2.0	0.0	2.0	1.0	1.0	1.0	0.0	1.0	3.0	001.1338934

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
2.0	0.0	2.0	0.0	2.0	2.0	1.0	2.0	0.0	2.0	2.0	000.6520507
2.0	0.0	2.0	0.0	2.0	2.0	1.0	2.0	0.0	2.0	4.0	001.5971914
2.0	0.0	2.0	0.0	2.0	3.0	1.0	3.0	0.0	3.0	1.0	001.7320508
2.0	0.0	2.0	0.0	2.0	3.0	1.0	3.0	0.0	3.0	3.0	001.0801234
2.0	0.0	2.0	0.0	2.0	3.0	1.0	3.0	0.0	3.0	5.0	001.9462474
2.0	0.0	2.0	0.0	2.0	4.0	1.0	4.0	0.0	4.0	2.0	002.1428569
2.0	0.0	2.0	0.0	2.0	4.0	1.0	4.0	0.0	4.0	4.0	001.3519909
2.0	0.0	2.0	0.0	2.0	4.0	1.0	4.0	0.0	4.0	6.0	002.2374888
2.0	0.0	2.0	1.0	2.0	1.0	1.0	0.0	1.0	0.0	2.0	-000.9128709
2.0	0.0	2.0	1.0	2.0	1.0	1.0	0.0	1.0	2.0	2.0	-000.6454972
2.0	0.0	2.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	-000.6123724
2.0	0.0	2.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	3.0	-000.6546537
2.0	0.0	2.0	1.0	2.0	1.0	1.0	2.0	1.0	0.0	2.0	-000.6454972
2.0	0.0	2.0	1.0	2.0	1.0	1.0	2.0	1.0	2.0	2.0	-000.4564354
2.0	0.0	2.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	-000.6123724
2.0	0.0	2.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	3.0	-000.6546536
2.0	0.0	2.0	1.0	2.0	2.0	1.0	1.0	1.0	3.0	1.0	-000.5000000
2.0	0.0	2.0	1.0	2.0	2.0	1.0	1.0	1.0	3.0	3.0	-000.5345224
2.0	0.0	2.0	1.0	2.0	2.0	1.0	2.0	1.0	2.0	2.0	000.3260254
2.0	0.0	2.0	1.0	2.0	2.0	1.0	2.0	1.0	2.0	4.0	-001.0647943
2.0	0.0	2.0	1.0	2.0	2.0	1.0	3.0	1.0	1.0	1.0	-000.5000000
2.0	0.0	2.0	1.0	2.0	2.0	1.0	3.0	1.0	1.0	3.0	-000.5345225
2.0	0.0	2.0	1.0	2.0	2.0	1.0	3.0	1.0	3.0	1.0	-000.4082483
2.0	0.0	2.0	1.0	2.0	2.0	1.0	3.0	1.0	3.0	3.0	-000.4364358
2.0	0.0	2.0	1.0	2.0	3.0	1.0	2.0	1.0	2.0	2.0	-000.5216406
2.0	0.0	2.0	1.0	2.0	3.0	1.0	2.0	1.0	2.0	4.0	-000.5323971
2.0	0.0	2.0	1.0	2.0	3.0	1.0	2.0	1.0	4.0	2.0	-000.4517539
2.0	0.0	2.0	1.0	2.0	3.0	1.0	2.0	1.0	4.0	4.0	-000.4610693

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
2.0	0.0	2.0	1.0	2.0	3.0	1.0	001.6329931
2.0	0.0	2.0	1.0	2.0	3.0	1.0	000.3818814
2.0	0.0	2.0	1.0	2.0	3.0	1.0	-001.3762045
2.0	0.0	2.0	1.0	2.0	3.0	1.0	-000.4517539
2.0	0.0	2.0	1.0	2.0	3.0	1.0	-000.4610693
2.0	0.0	2.0	1.0	2.0	3.0	1.0	-000.3912303
2.0	0.0	2.0	1.0	2.0	3.0	1.0	-000.3992977
2.0	0.0	2.0	1.0	2.0	4.0	1.0	-000.4546206
2.0	0.0	2.0	1.0	2.0	4.0	1.0	-000.4587349
2.0	0.0	2.0	1.0	2.0	4.0	1.0	-000.4066251
2.0	0.0	2.0	1.0	2.0	4.0	1.0	-000.4103047
2.0	0.0	2.0	1.0	2.0	4.0	1.0	001.9561519
2.0	0.0	2.0	1.0	2.0	4.0	1.0	000.3702580
2.0	0.0	2.0	1.0	2.0	4.0	1.0	-001.6340307
2.0	0.0	2.0	1.0	2.0	4.0	1.0	-000.4066251
2.0	0.0	2.0	1.0	2.0	4.0	1.0	-000.4103050
2.0	0.0	2.0	1.0	2.0	4.0	1.0	-000.3636965
2.0	0.0	2.0	1.0	2.0	4.0	1.0	-000.3669879
2.0	1.0	1.0	1.0	1.0	0.0	1.0	-000.4472136
2.0	1.0	1.0	1.0	1.0	0.0	1.0	000.4743416
2.0	1.0	1.0	1.0	1.0	0.0	1.0	-000.8333333
2.0	1.0	1.0	1.0	1.0	1.0	0.0	000.1178511
2.0	1.0	1.0	1.0	1.0	1.0	1.0	-000.6708204
2.0	1.0	1.0	1.0	1.0	1.0	1.0	000.4714045
2.0	1.0	1.0	1.0	1.0	1.0	1.0	-000.0666666
2.0	1.0	1.0	1.0	1.0	1.0	1.0	-000.9621405
2.0	1.0	1.0	1.0	1.0	2.0	0.0	000.6123724
2.0	1.0	1.0	1.0	1.0	2.0	0.0	000.6546536

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
2.0	1.0	1.0	1.0	1.0	2.0	1.0	000.0000000
2.0	1.0	1.0	1.0	1.0	2.0	1.0	000.0000000
2.0	1.0	1.0	1.0	1.0	2.0	1.0	-000.5000000
2.0	1.0	1.0	1.0	1.0	2.0	1.0	-000.5345224
2.0	1.0	1.0	1.0	1.0	2.0	1.0	000.4564354
2.0	1.0	1.0	1.0	1.0	2.0	1.0	-000.1597191
2.0	1.0	1.0	1.0	1.0	2.0	1.0	-001.3041013
2.0	1.0	1.0	1.0	1.0	3.0	0.0	000.7745966
2.0	1.0	1.0	1.0	1.0	3.0	0.0	000.7905693
2.0	1.0	1.0	1.0	1.0	3.0	1.0	001.4000001
2.0	1.0	1.0	1.0	1.0	3.0	1.0	000.1603567
2.0	1.0	1.0	1.0	1.0	3.0	1.0	-000.0771517
2.0	1.0	1.0	1.0	1.0	3.0	1.0	-000.4472135
2.0	1.0	1.0	1.0	1.0	3.0	1.0	-000.4564354
2.0	1.0	1.0	1.0	1.0	3.0	1.0	000.4629100
2.0	1.0	1.0	1.0	1.0	3.0	1.0	-000.2227176
2.0	1.0	1.0	1.0	1.0	3.0	1.0	-001.5731330
2.0	1.0	1.0	1.0	1.0	4.0	0.0	000.8964213
2.0	1.0	1.0	1.0	1.0	4.0	0.0	000.9045339
2.0	1.0	1.0	1.0	1.0	4.0	1.0	001.7249665
2.0	1.0	1.0	1.0	1.0	4.0	1.0	000.2390852
2.0	1.0	1.0	1.0	1.0	4.0	1.0	-000.1360827
2.0	1.0	1.0	1.0	1.0	4.0	1.0	-000.4008917
2.0	1.0	1.0	1.0	1.0	4.0	1.0	-000.4045196
2.0	1.0	1.0	1.0	1.0	4.0	1.0	000.4762895
2.0	1.0	1.0	1.0	1.0	4.0	1.0	-000.2710948
2.0	1.0	1.0	1.0	1.0	4.0	1.0	-001.8011437
2.0	1.0	1.0	1.0	3.0	0.0	1.0	000.5477226

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
2.0	1.0	1.0	1.0	3.0	1.0	0.0	1.0	1.0	1.0	2.0	000.3872983
2.0	1.0	1.0	1.0	3.0	1.0	1.0	0.0	1.0	2.0	1.0	-000.8660254
2.0	1.0	1.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	2.0	-000.5477226
2.0	1.0	1.0	1.0	3.0	1.0	1.0	2.0	1.0	0.0	3.0	-000.9258201
2.0	1.0	1.0	1.0	3.0	1.0	1.0	2.0	1.0	2.0	1.0	000.4898980
2.0	1.0	1.0	1.0	3.0	1.0	1.0	2.0	1.0	2.0	3.0	000.5237228
2.0	1.0	1.0	1.0	3.0	2.0	0.0	2.0	1.0	2.0	1.0	000.5000000
2.0	1.0	1.0	1.0	3.0	2.0	0.0	2.0	1.0	2.0	3.0	000.5345225
2.0	1.0	1.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	2.0	000.0000000
2.0	1.0	1.0	1.0	3.0	2.0	1.0	1.0	1.0	3.0	2.0	000.0000000
2.0	1.0	1.0	1.0	3.0	2.0	1.0	2.0	1.0	2.0	1.0	-000.4082482
2.0	1.0	1.0	1.0	3.0	2.0	1.0	2.0	1.0	2.0	3.0	-000.4364357
2.0	1.0	1.0	1.0	3.0	2.0	1.0	3.0	1.0	1.0	2.0	-000.1597191
2.0	1.0	1.0	1.0	3.0	2.0	1.0	3.0	1.0	1.0	4.0	-001.3041013
2.0	1.0	1.0	1.0	3.0	2.0	1.0	3.0	1.0	3.0	2.0	000.5216405
2.0	1.0	1.0	1.0	3.0	2.0	1.0	3.0	1.0	3.0	4.0	000.5323971
2.0	1.0	1.0	1.0	3.0	3.0	0.0	3.0	1.0	3.0	2.0	000.6324556
2.0	1.0	1.0	1.0	3.0	3.0	0.0	3.0	1.0	3.0	4.0	000.6454972
2.0	1.0	1.0	1.0	3.0	3.0	1.0	2.0	1.0	2.0	1.0	-000.0816496
2.0	1.0	1.0	1.0	3.0	3.0	1.0	2.0	1.0	2.0	3.0	-000.0872870
2.0	1.0	1.0	1.0	3.0	3.0	1.0	2.0	1.0	4.0	1.0	001.4142134
2.0	1.0	1.0	1.0	3.0	3.0	1.0	2.0	1.0	4.0	3.0	000.1889819
2.0	1.0	1.0	1.0	3.0	3.0	1.0	3.0	1.0	3.0	2.0	-000.3651482
2.0	1.0	1.0	1.0	3.0	3.0	1.0	3.0	1.0	3.0	4.0	-000.3726778
2.0	1.0	1.0	1.0	3.0	3.0	1.0	4.0	1.0	2.0	3.0	-000.2519765
2.0	1.0	1.0	1.0	3.0	3.0	1.0	4.0	1.0	2.0	5.0	-001.5891040
2.0	1.0	1.0	1.0	3.0	3.0	1.0	4.0	1.0	4.0	3.0	000.5455447
2.0	1.0	1.0	1.0	3.0	3.0	1.0	4.0	1.0	4.0	5.0	000.5504819

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
2.0	1.0	1.0	1.0	3.0	4.0	0.0	000.7319250
2.0	1.0	1.0	1.0	3.0	4.0	0.0	000.7385487
2.0	1.0	1.0	1.0	3.0	4.0	1.0	-000.1564921
2.0	1.0	1.0	1.0	3.0	4.0	1.0	-000.1597192
2.0	1.0	1.0	1.0	3.0	4.0	1.0	001.7496351
2.0	1.0	1.0	1.0	3.0	4.0	1.0	000.2857144
2.0	1.0	1.0	1.0	3.0	4.0	1.0	-000.3273266
2.0	1.0	1.0	1.0	3.0	4.0	1.0	-000.3302887
2.0	1.0	1.0	1.0	3.0	4.0	1.0	-000.3181818
2.0	1.0	1.0	1.0	3.0	4.0	1.0	-001.8269022
2.0	1.0	1.0	1.0	3.0	4.0	1.0	000.5691807
2.0	1.0	1.0	1.0	3.0	4.0	1.0	000.5719109
2.0	1.0	2.0	0.0	2.0	0.0	0.0	-000.9128709
2.0	1.0	2.0	0.0	2.0	1.0	0.0	-001.2247449
2.0	1.0	2.0	0.0	2.0	1.0	0.0	-001.3093074
2.0	1.0	2.0	0.0	2.0	1.0	1.0	000.0000000
2.0	1.0	2.0	0.0	2.0	1.0	1.0	000.0000000
2.0	1.0	2.0	0.0	2.0	2.0	0.0	-000.6520507
2.0	1.0	2.0	0.0	2.0	2.0	0.0	-001.5971914
2.0	1.0	2.0	0.0	2.0	2.0	1.0	000.0000000
2.0	1.0	2.0	0.0	2.0	2.0	1.0	000.0000000
2.0	1.0	2.0	0.0	2.0	3.0	0.0	001.2247448
2.0	1.0	2.0	0.0	2.0	3.0	0.0	-000.5091750
2.0	1.0	2.0	0.0	2.0	3.0	0.0	-001.8349395
2.0	1.0	2.0	0.0	2.0	3.0	1.0	000.0000000
2.0	1.0	2.0	0.0	2.0	3.0	1.0	000.0000000
2.0	1.0	2.0	0.0	2.0	3.0	1.0	000.0000000
2.0	1.0	2.0	0.0	2.0	4.0	0.0	001.5649215

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
2.0	1.0	2.0	0.0	2.0	4.0	0.0	4.0	0.0	4.0	4.0	-000.4355977
2.0	1.0	2.0	0.0	2.0	4.0	0.0	4.0	0.0	4.0	6.0	-002.0425386
2.0	1.0	2.0	0.0	2.0	4.0	1.0	4.0	0.0	4.0	2.0	000.0000000
2.0	1.0	2.0	0.0	2.0	4.0	1.0	4.0	0.0	4.0	4.0	000.0000000
2.0	1.0	2.0	0.0	2.0	4.0	1.0	4.0	0.0	4.0	6.0	000.0000000
2.0	1.0	2.0	1.0	2.0	1.0	0.0	1.0	1.0	1.0	1.0	-001.0606602
2.0	1.0	2.0	1.0	2.0	1.0	0.0	1.0	1.0	1.0	3.0	000.7559289
2.0	1.0	2.0	1.0	2.0	1.0	1.0	0.0	1.0	0.0	2.0	000.3726780
2.0	1.0	2.0	1.0	2.0	1.0	1.0	0.0	1.0	2.0	2.0	000.2635231
2.0	1.0	2.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	-000.0000000
2.0	1.0	2.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	3.0	000.0000000
2.0	1.0	2.0	1.0	2.0	1.0	1.0	2.0	1.0	0.0	2.0	-000.5270463
2.0	1.0	2.0	1.0	2.0	1.0	1.0	2.0	1.0	2.0	2.0	-000.3726780
2.0	1.0	2.0	1.0	2.0	2.0	0.0	2.0	1.0	2.0	2.0	-000.3260254
2.0	1.0	2.0	1.0	2.0	2.0	0.0	2.0	1.0	2.0	4.0	001.0647943
2.0	1.0	2.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	000.5000000
2.0	1.0	2.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	3.0	000.5345224
2.0	1.0	2.0	1.0	2.0	2.0	1.0	1.0	1.0	3.0	1.0	000.4082482
2.0	1.0	2.0	1.0	2.0	2.0	1.0	1.0	1.0	3.0	3.0	000.4364357
2.0	1.0	2.0	1.0	2.0	2.0	1.0	2.0	1.0	2.0	2.0	-000.0000000
2.0	1.0	2.0	1.0	2.0	2.0	1.0	2.0	1.0	2.0	4.0	000.0000000
2.0	1.0	2.0	1.0	2.0	2.0	1.0	3.0	1.0	1.0	1.0	-000.6123724
2.0	1.0	2.0	1.0	2.0	2.0	1.0	3.0	1.0	1.0	3.0	-000.6546536
2.0	1.0	2.0	1.0	2.0	2.0	1.0	3.0	1.0	3.0	1.0	-000.5000000
2.0	1.0	2.0	1.0	2.0	2.0	1.0	3.0	1.0	3.0	3.0	-000.5345225
2.0	1.0	2.0	1.0	2.0	3.0	0.0	3.0	1.0	3.0	1.0	001.1547006
2.0	1.0	2.0	1.0	2.0	3.0	0.0	3.0	1.0	3.0	3.0	-000.1800205
2.0	1.0	2.0	1.0	2.0	3.0	0.0	3.0	1.0	3.0	5.0	001.2974982

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
2.0	1.0	2.0	1.0	2.0	3.0	1.0	000.6388765
2.0	1.0	2.0	1.0	2.0	3.0	1.0	000.6520505
2.0	1.0	2.0	1.0	2.0	3.0	1.0	000.5532833
2.0	1.0	2.0	1.0	2.0	3.0	1.0	000.5646922
2.0	1.0	2.0	1.0	2.0	3.0	1.0	000.0000000
2.0	1.0	2.0	1.0	2.0	3.0	1.0	-000.0000000
2.0	1.0	2.0	1.0	2.0	3.0	1.0	000.0000000
2.0	1.0	2.0	1.0	2.0	3.0	1.0	-000.7377112
2.0	1.0	2.0	1.0	2.0	3.0	1.0	-000.7529233
2.0	1.0	2.0	1.0	2.0	3.0	1.0	-000.6388767
2.0	1.0	2.0	1.0	2.0	3.0	1.0	-000.6520505
2.0	1.0	2.0	1.0	2.0	4.0	0.0	001.4285712
2.0	1.0	2.0	1.0	2.0	4.0	0.0	-000.1192931
2.0	1.0	2.0	1.0	2.0	4.0	0.0	001.4916592
2.0	1.0	2.0	1.0	2.0	4.0	1.0	000.7423920
2.0	1.0	2.0	1.0	2.0	4.0	1.0	000.7491105
2.0	1.0	2.0	1.0	2.0	4.0	1.0	000.6640158
2.0	1.0	2.0	1.0	2.0	4.0	1.0	000.6700254
2.0	1.0	2.0	1.0	2.0	4.0	1.0	000.0000000
2.0	1.0	2.0	1.0	2.0	4.0	1.0	-000.0000000
2.0	1.0	2.0	1.0	2.0	4.0	1.0	000.0000000
2.0	1.0	2.0	1.0	2.0	4.0	1.0	-000.8300195
2.0	1.0	2.0	1.0	2.0	4.0	1.0	-000.8375312
2.0	1.0	2.0	1.0	2.0	4.0	1.0	-000.7423924
2.0	1.0	2.0	1.0	2.0	4.0	1.0	-000.7491106
2.0	1.0	3.0	1.0	1.0	0.0	1.0	-000.3651484
2.0	1.0	3.0	1.0	1.0	1.0	0.0	000.3872983
2.0	1.0	3.0	1.0	1.0	1.0	0.0	000.9258201

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
2.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	000.8215838
2.0	1.0	3.0	1.0	1.0	1.0	1.0	2.0	1.0	0.0	1.0	000.8660254
2.0	1.0	3.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0	1.0	-000.1224744
2.0	1.0	3.0	1.0	1.0	1.0	1.0	2.0	1.0	2.0	3.0	-000.1309307
2.0	1.0	3.0	1.0	1.0	2.0	0.0	2.0	1.0	2.0	1.0	000.5000000
2.0	1.0	3.0	1.0	1.0	2.0	0.0	2.0	1.0	2.0	3.0	000.5345225
2.0	1.0	3.0	1.0	1.0	2.0	1.0	1.0	1.0	1.0	2.0	-000.4564354
2.0	1.0	3.0	1.0	1.0	2.0	1.0	1.0	1.0	3.0	2.0	000.1597191
2.0	1.0	3.0	1.0	1.0	2.0	1.0	1.0	1.0	3.0	4.0	001.3041013
2.0	1.0	3.0	1.0	1.0	2.0	1.0	2.0	1.0	2.0	1.0	000.6123724
2.0	1.0	3.0	1.0	1.0	2.0	1.0	2.0	1.0	2.0	3.0	000.6546537
2.0	1.0	3.0	1.0	1.0	2.0	1.0	3.0	1.0	1.0	2.0	000.0000000
2.0	1.0	3.0	1.0	1.0	2.0	1.0	3.0	1.0	3.0	2.0	000.0000000
2.0	1.0	3.0	1.0	1.0	2.0	1.0	3.0	1.0	3.0	4.0	000.0000000
2.0	1.0	3.0	1.0	1.0	3.0	0.0	3.0	1.0	3.0	2.0	000.6324554
2.0	1.0	3.0	1.0	1.0	3.0	0.0	3.0	1.0	3.0	4.0	000.6454972
2.0	1.0	3.0	1.0	1.0	3.0	1.0	2.0	1.0	2.0	1.0	-000.4898979
2.0	1.0	3.0	1.0	1.0	3.0	1.0	2.0	1.0	2.0	3.0	-000.5237228
2.0	1.0	3.0	1.0	1.0	3.0	1.0	2.0	1.0	4.0	3.0	000.2519761
2.0	1.0	3.0	1.0	1.0	3.0	1.0	2.0	1.0	4.0	5.0	001.5891040
2.0	1.0	3.0	1.0	1.0	3.0	1.0	3.0	1.0	3.0	2.0	000.5477225
2.0	1.0	3.0	1.0	1.0	3.0	1.0	3.0	1.0	3.0	4.0	000.5590170
2.0	1.0	3.0	1.0	1.0	3.0	1.0	4.0	1.0	2.0	1.0	-001.4142134
2.0	1.0	3.0	1.0	1.0	3.0	1.0	4.0	1.0	2.0	3.0	-000.1889823
2.0	1.0	3.0	1.0	1.0	3.0	1.0	4.0	1.0	4.0	3.0	000.0909239
2.0	1.0	3.0	1.0	1.0	3.0	1.0	4.0	1.0	4.0	5.0	000.0917472
2.0	1.0	3.0	1.0	1.0	4.0	0.0	4.0	1.0	4.0	3.0	000.7319250
2.0	1.0	3.0	1.0	1.0	4.0	0.0	4.0	1.0	4.0	5.0	000.7385490

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.0	1.0	3.0	1.0	1.0	4.0	1.0	3.0	1.0	3.0	2.0	-000.5477225
2.0	1.0	3.0	1.0	1.0	4.0	1.0	3.0	1.0	3.0	4.0	-000.5590170
2.0	1.0	3.0	1.0	1.0	4.0	1.0	3.0	1.0	5.0	4.0	000.3181818
2.0	1.0	3.0	1.0	1.0	4.0	1.0	3.0	1.0	5.0	6.0	001.8269022
2.0	1.0	3.0	1.0	1.0	4.0	1.0	4.0	1.0	4.0	3.0	000.4909901
2.0	1.0	3.0	1.0	1.0	4.0	1.0	4.0	1.0	4.0	5.0	000.4954333
2.0	1.0	3.0	1.0	1.0	4.0	1.0	5.0	1.0	3.0	2.0	-001.7496357
2.0	1.0	3.0	1.0	1.0	4.0	1.0	5.0	1.0	3.0	4.0	-000.2857144
2.0	1.0	3.0	1.0	1.0	4.0	1.0	5.0	1.0	5.0	4.0	000.1626228
2.0	1.0	3.0	1.0	1.0	4.0	1.0	5.0	1.0	5.0	6.0	000.1634033
2.0	1.0	3.0	1.0	3.0	0.0	1.0	1.0	1.0	1.0	2.0	000.4472136
2.0	1.0	3.0	1.0	3.0	1.0	0.0	1.0	1.0	1.0	2.0	000.3162278
2.0	1.0	3.0	1.0	3.0	1.0	1.0	0.0	1.0	0.0	3.0	000.8908708
2.0	1.0	3.0	1.0	3.0	1.0	1.0	0.0	1.0	2.0	3.0	-000.5039526
2.0	1.0	3.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	2.0	000.6708204
2.0	1.0	3.0	1.0	3.0	1.0	1.0	2.0	1.0	0.0	3.0	-000.1259881
2.0	1.0	3.0	1.0	3.0	1.0	1.0	2.0	1.0	2.0	1.0	000.9000001
2.0	1.0	3.0	1.0	3.0	1.0	1.0	2.0	1.0	2.0	3.0	000.0712696
2.0	1.0	3.0	1.0	3.0	2.0	0.0	2.0	1.0	2.0	1.0	000.4082483
2.0	1.0	3.0	1.0	3.0	2.0	0.0	2.0	1.0	2.0	3.0	000.4364358
2.0	1.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	2.0	000.1597191
2.0	1.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	4.0	001.3041013
2.0	1.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	3.0	2.0	-000.5216405
2.0	1.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	3.0	4.0	-000.5323971
2.0	1.0	3.0	1.0	3.0	2.0	1.0	2.0	1.0	2.0	1.0	000.4999998
2.0	1.0	3.0	1.0	3.0	2.0	1.0	2.0	1.0	2.0	3.0	000.5345225
2.0	1.0	3.0	1.0	3.0	2.0	1.0	3.0	1.0	1.0	2.0	000.0000000
2.0	1.0	3.0	1.0	3.0	2.0	1.0	3.0	1.0	1.0	4.0	000.0000000

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.0	1.0	3.0	1.0	3.0	2.0	1.0	3.0	1.0	3.0	2.0	000.0000000
2.0	1.0	3.0	1.0	3.0	2.0	1.0	3.0	1.0	3.0	4.0	000.0000000
2.0	1.0	3.0	1.0	3.0	3.0	0.0	3.0	1.0	3.0	2.0	000.5163976
2.0	1.0	3.0	1.0	3.0	3.0	0.0	3.0	1.0	3.0	4.0	000.5270462
2.0	1.0	3.0	1.0	3.0	3.0	1.0	2.0	1.0	2.0	1.0	000.0285713
2.0	1.0	3.0	1.0	3.0	3.0	1.0	2.0	1.0	2.0	3.0	000.2850786
2.0	1.0	3.0	1.0	3.0	3.0	1.0	2.0	1.0	2.0	5.0	001.6052378
2.0	1.0	3.0	1.0	3.0	3.0	1.0	2.0	1.0	4.0	1.0	-000.4948714
2.0	1.0	3.0	1.0	3.0	3.0	1.0	2.0	1.0	4.0	3.0	-000.6172132
2.0	1.0	3.0	1.0	3.0	3.0	1.0	2.0	1.0	4.0	5.0	-000.5560707
2.0	1.0	3.0	1.0	3.0	3.0	1.0	3.0	1.0	3.0	2.0	000.4472132
2.0	1.0	3.0	1.0	3.0	3.0	1.0	3.0	1.0	3.0	4.0	000.4564351
2.0	1.0	3.0	1.0	3.0	3.0	1.0	4.0	1.0	2.0	1.0	000.0824785
2.0	1.0	3.0	1.0	3.0	3.0	1.0	4.0	1.0	2.0	3.0	000.1028692
2.0	1.0	3.0	1.0	3.0	3.0	1.0	4.0	1.0	2.0	5.0	000.0926782
2.0	1.0	3.0	1.0	3.0	3.0	1.0	4.0	1.0	4.0	1.0	-001.4285714
2.0	1.0	3.0	1.0	3.0	3.0	1.0	4.0	1.0	4.0	3.0	-000.2227178
2.0	1.0	3.0	1.0	3.0	3.0	1.0	4.0	1.0	4.0	5.0	-000.0321047
2.0	1.0	3.0	1.0	3.0	4.0	0.0	4.0	1.0	4.0	3.0	000.5976139
2.0	1.0	3.0	1.0	3.0	4.0	0.0	4.0	1.0	4.0	5.0	000.6030227
2.0	1.0	3.0	1.0	3.0	4.0	1.0	3.0	1.0	3.0	2.0	000.0496906
2.0	1.0	3.0	1.0	3.0	4.0	1.0	3.0	1.0	3.0	4.0	000.3734472
2.0	1.0	3.0	1.0	3.0	4.0	1.0	3.0	1.0	3.0	6.0	001.8530282
2.0	1.0	3.0	1.0	3.0	4.0	1.0	3.0	1.0	5.0	2.0	-000.5555554
2.0	1.0	3.0	1.0	3.0	4.0	1.0	3.0	1.0	5.0	4.0	-000.6680426
2.0	1.0	3.0	1.0	3.0	4.0	1.0	3.0	1.0	5.0	6.0	-000.5800900
2.0	1.0	3.0	1.0	3.0	4.0	1.0	4.0	1.0	4.0	3.0	000.4008917
2.0	1.0	3.0	1.0	3.0	4.0	1.0	4.0	1.0	4.0	5.0	000.4045199

J_1	S''	l'_1	S	l_1	J_2	S'	l'_2	S	l_2	L	H
2.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0	1.0	3.0	2.0	000.1587296
2.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0	1.0	3.0	4.0	000.1908691
2.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0	1.0	3.0	6.0	000.1657399
2.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0	1.0	5.0	2.0	-001.7746573
2.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0	1.0	5.0	4.0	-000.3414374
2.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0	1.0	5.0	6.0	-000.0518847
3.0	0.0	3.0	0.0	3.0	1.0	1.0	1.0	0.0	1.0	2.0	-000.9486833
3.0	0.0	3.0	0.0	3.0	1.0	1.0	1.0	0.0	1.0	4.0	001.2909944
3.0	0.0	3.0	0.0	3.0	2.0	1.0	2.0	0.0	2.0	1.0	-001.2247448
3.0	0.0	3.0	0.0	3.0	2.0	1.0	2.0	0.0	2.0	3.0	000.5091750
3.0	0.0	3.0	0.0	3.0	2.0	1.0	2.0	0.0	2.0	5.0	001.8349395
3.0	0.0	3.0	0.0	3.0	3.0	1.0	3.0	0.0	3.0	2.0	000.6024642
3.0	0.0	3.0	0.0	3.0	3.0	1.0	3.0	0.0	3.0	4.0	001.0061793
3.0	0.0	3.0	0.0	3.0	3.0	1.0	3.0	0.0	3.0	6.0	002.2466779
3.0	0.0	3.0	0.0	3.0	4.0	1.0	4.0	0.0	4.0	1.0	002.2360676
3.0	0.0	3.0	0.0	3.0	4.0	1.0	4.0	0.0	4.0	3.0	001.1408999
3.0	0.0	3.0	0.0	3.0	4.0	1.0	4.0	0.0	4.0	5.0	001.3220109
3.0	0.0	3.0	0.0	3.0	4.0	1.0	4.0	0.0	4.0	7.0	002.5902459
3.0	0.0	3.0	1.0	3.0	1.0	1.0	0.0	1.0	0.0	3.0	-001.0801234
3.0	0.0	3.0	1.0	3.0	1.0	1.0	0.0	1.0	2.0	3.0	-000.7637626
3.0	0.0	3.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	2.0	-000.7745967
3.0	0.0	3.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	4.0	-000.7905694
3.0	0.0	3.0	1.0	3.0	1.0	1.0	2.0	1.0	0.0	3.0	-000.7637626
3.0	0.0	3.0	1.0	3.0	1.0	1.0	2.0	1.0	2.0	3.0	-000.5400617
3.0	0.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	2.0	-000.7745966
3.0	0.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	4.0	-000.7905694
3.0	0.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	3.0	2.0	-000.6324556
3.0	0.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	3.0	4.0	-000.6454972

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
3.0	0.0	3.0	1.0	3.0	2.0	1.0	-001.1547006
3.0	0.0	3.0	1.0	3.0	2.0	1.0	000.1800205
3.0	0.0	3.0	1.0	3.0	2.0	1.0	-001.2974982
3.0	0.0	3.0	1.0	3.0	2.0	1.0	-000.6324554
3.0	0.0	3.0	1.0	3.0	2.0	1.0	-000.6454972
3.0	0.0	3.0	1.0	3.0	2.0	1.0	-000.5163976
3.0	0.0	3.0	1.0	3.0	2.0	1.0	-000.5270462
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-000.5773501
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-000.7200822
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-000.6487491
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-000.4999997
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-000.6236094
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-000.5618333
3.0	0.0	3.0	1.0	3.0	3.0	1.0	000.4518478
3.0	0.0	3.0	1.0	3.0	3.0	1.0	000.1676964
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-001.6850084
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-000.5000001
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-000.6236094
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-000.5618329
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-000.4330128
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-000.5400614
3.0	0.0	3.0	1.0	3.0	3.0	1.0	-000.4865614
3.0	0.0	3.0	1.0	3.0	4.0	1.0	-000.5379141
3.0	0.0	3.0	1.0	3.0	4.0	1.0	-000.6468292
3.0	0.0	3.0	1.0	3.0	4.0	1.0	-000.5616691
3.0	0.0	3.0	1.0	3.0	4.0	1.0	-000.4811248
3.0	0.0	3.0	1.0	3.0	4.0	1.0	-000.5785419
3.0	0.0	3.0	1.0	3.0	4.0	1.0	-000.5023721

J_1 , S"	ℓ_1 , S	ℓ_1 ; J_2 , S'	ℓ_2 , S	ℓ_2 ; L	H
3.0	0.0	3.0 1.0	3.0 4.0	1.0 4.0 1.0	002.1650629
3.0	0.0	3.0 1.0	3.0 4.0	1.0 4.0 3.0	000.7364477
3.0	0.0	3.0 1.0	3.0 4.0	1.0 4.0 5.0	000.0853354
3.0	0.0	3.0 1.0	3.0 4.0	1.0 4.0 7.0	-002.0063958
3.0	0.0	3.0 1.0	3.0 4.0	1.0 5.0 1.0 3.0 2.0	-000.4811248
3.0	0.0	3.0 1.0	3.0 4.0	1.0 5.0 1.0 3.0 4.0	-000.5785419
3.0	0.0	3.0 1.0	3.0 4.0	1.0 5.0 1.0 3.0 6.0	-000.5023721
3.0	0.0	3.0 1.0	3.0 4.0	1.0 5.0 1.0 5.0 2.0	-000.4303310
3.0	0.0	3.0 1.0	3.0 4.0	1.0 5.0 1.0 5.0 4.0	-000.5174632
3.0	0.0	3.0 1.0	3.0 4.0	1.0 5.0 1.0 5.0 6.0	-000.4493360
3.0	1.0	2.0 1.0	2.0 0.0	1.0 1.0 1.0 1.0 3.0	-000.5345225
3.0	1.0	2.0 1.0	2.0 1.0	0.0 1.0 1.0 1.0 3.0	000.3779644
3.0	1.0	2.0 1.0	2.0 1.0	1.0 0.0 1.0 0.0 2.0	-001.0434984
3.0	1.0	2.0 1.0	2.0 1.0	1.0 0.0 1.0 2.0 2.0	000.2108185
3.0	1.0	2.0 1.0	2.0 1.0	1.0 1.0 1.0 1.0 3.0	-000.8017836
3.0	1.0	2.0 1.0	2.0 1.0	1.0 2.0 1.0 0.0 2.0	000.5270462
3.0	1.0	2.0 1.0	2.0 1.0	1.0 2.0 1.0 2.0 2.0	-000.1064795
3.0	1.0	2.0 1.0	2.0 1.0	1.0 2.0 1.0 2.0 4.0	-001.1736911
3.0	1.0	2.0 1.0	2.0 2.0	0.0 2.0 1.0 2.0 2.0	000.5216406
3.0	1.0	2.0 1.0	2.0 2.0	0.0 2.0 1.0 2.0 4.0	000.5323970
3.0	1.0	2.0 1.0	2.0 2.0	1.0 1.0 1.0 1.0 1.0	-001.4000001
3.0	1.0	2.0 1.0	2.0 2.0	1.0 1.0 1.0 1.0 3.0	-000.1603567
3.0	1.0	2.0 1.0	2.0 2.0	1.0 1.0 1.0 3.0 1.0	000.0816496
3.0	1.0	2.0 1.0	2.0 2.0	1.0 1.0 1.0 3.0 3.0	000.0872870
3.0	1.0	2.0 1.0	2.0 2.0	1.0 2.0 1.0 2.0 2.0	-000.6388765
3.0	1.0	2.0 1.0	2.0 2.0	1.0 2.0 1.0 2.0 4.0	-000.6520505
3.0	1.0	2.0 1.0	2.0 2.0	1.0 3.0 1.0 1.0 1.0	000.4898979
3.0	1.0	2.0 1.0	2.0 2.0	1.0 3.0 1.0 1.0 3.0	000.5237228

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
3.0	1.0	2.0	1.0	2.0	2.0	1.0	-000.0285713
3.0	1.0	2.0	1.0	2.0	2.0	1.0	-000.2850786
3.0	1.0	2.0	1.0	2.0	2.0	1.0	-001.6052378
3.0	1.0	2.0	1.0	2.0	3.0	0.0	000.5773501
3.0	1.0	2.0	1.0	2.0	3.0	0.0	000.7200822
3.0	1.0	2.0	1.0	2.0	3.0	0.0	000.6487488
3.0	1.0	2.0	1.0	2.0	3.0	1.0	000.0000000
3.0	1.0	2.0	1.0	2.0	3.0	1.0	000.0000000
3.0	1.0	2.0	1.0	2.0	3.0	1.0	000.0000000
3.0	1.0	2.0	1.0	2.0	3.0	1.0	000.0000000
3.0	1.0	2.0	1.0	2.0	3.0	1.0	-000.4999998
3.0	1.0	2.0	1.0	2.0	3.0	1.0	-000.6236095
3.0	1.0	2.0	1.0	2.0	3.0	1.0	-000.5618330
3.0	1.0	2.0	1.0	2.0	3.0	1.0	000.5163975
3.0	1.0	2.0	1.0	2.0	3.0	1.0	000.5270461
3.0	1.0	2.0	1.0	2.0	3.0	1.0	-000.0745351
3.0	1.0	2.0	1.0	2.0	3.0	1.0	-000.4149411
3.0	1.0	2.0	1.0	2.0	3.0	1.0	-001.9456800
3.0	1.0	2.0	1.0	2.0	4.0	0.0	000.7142856
3.0	1.0	2.0	1.0	2.0	4.0	0.0	000.8589121
3.0	1.0	2.0	1.0	2.0	4.0	0.0	000.7458293
3.0	1.0	2.0	1.0	2.0	4.0	1.0	001.9285716
3.0	1.0	2.0	1.0	2.0	4.0	1.0	000.3266521
3.0	1.0	2.0	1.0	2.0	4.0	1.0	000.0695601
3.0	1.0	2.0	1.0	2.0	4.0	1.0	-000.0664010
3.0	1.0	2.0	1.0	2.0	4.0	1.0	-000.0670021
3.0	1.0	2.0	1.0	2.0	4.0	1.0	-000.4791573
3.0	1.0	2.0	1.0	2.0	4.0	1.0	-000.5761755

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
3.0	1.0	2.0	1.0	2.0	4.0	1.0	4.0	1.0	4.0	6.0	-000.5003177
3.0	1.0	2.0	1.0	2.0	4.0	1.0	5.0	1.0	3.0	3.0	000.5312124
3.0	1.0	2.0	1.0	2.0	4.0	1.0	5.0	1.0	3.0	5.0	000.5360202
3.0	1.0	2.0	1.0	2.0	4.0	1.0	5.0	1.0	5.0	3.0	-000.1079843
3.0	1.0	2.0	1.0	2.0	4.0	1.0	5.0	1.0	5.0	5.0	-000.5163102
3.0	1.0	2.0	1.0	2.0	4.0	1.0	5.0	1.0	5.0	7.0	-002.2340436
3.0	1.0	2.0	1.0	4.0	0.0	1.0	1.0	1.0	1.0	3.0	000.6172134
3.0	1.0	2.0	1.0	4.0	1.0	0.0	1.0	1.0	1.0	3.0	000.3273268
3.0	1.0	2.0	1.0	4.0	1.0	1.0	0.0	1.0	2.0	2.0	-001.0954450
3.0	1.0	2.0	1.0	4.0	1.0	1.0	1.0	1.0	1.0	3.0	-000.6943651
3.0	1.0	2.0	1.0	4.0	1.0	1.0	2.0	1.0	0.0	4.0	-001.1180340
3.0	1.0	2.0	1.0	4.0	1.0	1.0	2.0	1.0	2.0	2.0	000.5532832
3.0	1.0	2.0	1.0	4.0	1.0	1.0	2.0	1.0	2.0	4.0	000.5646924
3.0	1.0	2.0	1.0	4.0	2.0	0.0	2.0	1.0	2.0	2.0	000.4517539
3.0	1.0	2.0	1.0	4.0	2.0	0.0	2.0	1.0	2.0	4.0	000.4610693
3.0	1.0	2.0	1.0	4.0	2.0	1.0	1.0	1.0	1.0	3.0	000.0771517
3.0	1.0	2.0	1.0	4.0	2.0	1.0	1.0	1.0	3.0	1.0	-001.4142134
3.0	1.0	2.0	1.0	4.0	2.0	1.0	1.0	1.0	3.0	3.0	-000.1889819
3.0	1.0	2.0	1.0	4.0	2.0	1.0	2.0	1.0	2.0	2.0	-000.5532833
3.0	1.0	2.0	1.0	4.0	2.0	1.0	2.0	1.0	2.0	4.0	-000.5646922
3.0	1.0	2.0	1.0	4.0	2.0	1.0	3.0	1.0	1.0	3.0	-000.2519761
3.0	1.0	2.0	1.0	4.0	2.0	1.0	3.0	1.0	1.0	5.0	-001.5891044
3.0	1.0	2.0	1.0	4.0	2.0	1.0	3.0	1.0	3.0	1.0	000.4948714
3.0	1.0	2.0	1.0	4.0	2.0	1.0	3.0	1.0	3.0	3.0	000.6172132
3.0	1.0	2.0	1.0	4.0	2.0	1.0	3.0	1.0	3.0	5.0	000.5560707
3.0	1.0	2.0	1.0	4.0	3.0	0.0	3.0	1.0	3.0	1.0	000.4999997
3.0	1.0	2.0	1.0	4.0	3.0	0.0	3.0	1.0	3.0	3.0	000.6236094
3.0	1.0	2.0	1.0	4.0	3.0	0.0	3.0	1.0	3.0	5.0	000.5618333

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
3.0	1.0	2.0	1.0	4.0	3.0	1.0	000.0000000
3.0	1.0	2.0	1.0	4.0	3.0	1.0	000.0000000
3.0	1.0	2.0	1.0	4.0	3.0	1.0	000.0000000
3.0	1.0	2.0	1.0	4.0	3.0	1.0	000.0000000
3.0	1.0	2.0	1.0	4.0	3.0	1.0	-000.4330125
3.0	1.0	2.0	1.0	4.0	3.0	1.0	-000.5400615
3.0	1.0	2.0	1.0	4.0	3.0	1.0	-000.4865612
3.0	1.0	2.0	1.0	4.0	3.0	1.0	-000.0745351
3.0	1.0	2.0	1.0	4.0	3.0	1.0	-000.4149411
3.0	1.0	2.0	1.0	4.0	3.0	1.0	-001.9456800
3.0	1.0	2.0	1.0	4.0	3.0	1.0	000.5379146
3.0	1.0	2.0	1.0	4.0	3.0	1.0	000.6468296
3.0	1.0	2.0	1.0	4.0	3.0	1.0	000.5616692
3.0	1.0	2.0	1.0	4.0	4.0	0.0	000.6185896
3.0	1.0	2.0	1.0	4.0	4.0	0.0	000.7438396
3.0	1.0	2.0	1.0	4.0	4.0	0.0	000.6459071
3.0	1.0	2.0	1.0	4.0	4.0	1.0	-000.0618584
3.0	1.0	2.0	1.0	4.0	4.0	1.0	-000.0771508
3.0	1.0	2.0	1.0	4.0	4.0	1.0	-000.0695086
3.0	1.0	2.0	1.0	4.0	4.0	1.0	001.9364907
3.0	1.0	2.0	1.0	4.0	4.0	1.0	000.3450326
3.0	1.0	2.0	1.0	4.0	4.0	1.0	000.0870380
3.0	1.0	2.0	1.0	4.0	4.0	1.0	-000.4149622
3.0	1.0	2.0	1.0	4.0	4.0	1.0	-000.4989823
3.0	1.0	2.0	1.0	4.0	4.0	1.0	-000.4332877
3.0	1.0	2.0	1.0	4.0	4.0	1.0	-000.1254661
3.0	1.0	2.0	1.0	4.0	4.0	1.0	-000.5356229
3.0	1.0	2.0	1.0	4.0	4.0	1.0	-002.2432185

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
3.0	1.0	2.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	3.0	000.5611024
3.0	1.0	2.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	5.0	000.6707068
3.0	1.0	2.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	7.0	000.5732552
3.0	1.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0	-001.0801234
3.0	1.0	3.0	0.0	3.0	1.0	0.0	1.0	0.0	1.0	2.0	-001.5491933
3.0	1.0	3.0	0.0	3.0	1.0	0.0	1.0	0.0	1.0	4.0	-001.5811388
3.0	1.0	3.0	0.0	3.0	1.0	1.0	1.0	0.0	1.0	2.0	000.0000000
3.0	1.0	3.0	0.0	3.0	1.0	1.0	1.0	0.0	1.0	4.0	000.0000000
3.0	1.0	3.0	0.0	3.0	2.0	0.0	2.0	0.0	2.0	1.0	-001.7320508
3.0	1.0	3.0	0.0	3.0	2.0	0.0	2.0	0.0	2.0	3.0	-001.0801234
3.0	1.0	3.0	0.0	3.0	2.0	0.0	2.0	0.0	2.0	5.0	-001.9462474
3.0	1.0	3.0	0.0	3.0	2.0	1.0	2.0	0.0	2.0	1.0	000.0000000
3.0	1.0	3.0	0.0	3.0	2.0	1.0	2.0	0.0	2.0	3.0	000.0000000
3.0	1.0	3.0	0.0	3.0	2.0	1.0	2.0	0.0	2.0	5.0	000.0000000
3.0	1.0	3.0	0.0	3.0	3.0	0.0	3.0	0.0	3.0	2.0	-000.6024642
3.0	1.0	3.0	0.0	3.0	3.0	0.0	3.0	0.0	3.0	4.0	-001.0061793
3.0	1.0	3.0	0.0	3.0	3.0	0.0	3.0	0.0	3.0	6.0	-002.2466779
3.0	1.0	3.0	0.0	3.0	3.0	1.0	3.0	0.0	3.0	2.0	000.0000000
3.0	1.0	3.0	0.0	3.0	3.0	1.0	3.0	0.0	3.0	4.0	000.0000000
3.0	1.0	3.0	0.0	3.0	3.0	1.0	3.0	0.0	3.0	6.0	000.0000000
3.0	1.0	3.0	0.0	3.0	4.0	0.0	4.0	0.0	4.0	1.0	001.7320506
3.0	1.0	3.0	0.0	3.0	4.0	0.0	4.0	0.0	4.0	3.0	-000.2945790
3.0	1.0	3.0	0.0	3.0	4.0	0.0	4.0	0.0	4.0	5.0	-000.9880946
3.0	1.0	3.0	0.0	3.0	4.0	0.0	4.0	0.0	4.0	7.0	-002.5079944
3.0	1.0	3.0	0.0	3.0	4.0	1.0	4.0	0.0	4.0	1.0	000.0000000
3.0	1.0	3.0	0.0	3.0	4.0	1.0	4.0	0.0	4.0	3.0	000.0000000
3.0	1.0	3.0	0.0	3.0	4.0	1.0	4.0	0.0	4.0	5.0	000.0000000
3.0	1.0	3.0	0.0	3.0	4.0	1.0	4.0	0.0	4.0	7.0	000.0000000

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.0	1.0	3.0	1.0	3.0	1.0	0.0	1.0	1.0	1.0	2.0	-001.2649110
3.0	1.0	3.0	1.0	3.0	1.0	0.0	1.0	1.0	1.0	4.0	000.9682458
3.0	1.0	3.0	1.0	3.0	1.0	1.0	0.0	1.0	0.0	3.0	000.3118048
3.0	1.0	3.0	1.0	3.0	1.0	1.0	0.0	1.0	2.0	3.0	000.2204792
3.0	1.0	3.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	2.0	-000.0000000
3.0	1.0	3.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	4.0	000.0000000
3.0	1.0	3.0	1.0	3.0	1.0	1.0	2.0	1.0	0.0	3.0	-000.4409586
3.0	1.0	3.0	1.0	3.0	1.0	1.0	2.0	1.0	2.0	3.0	-000.3118046
3.0	1.0	3.0	1.0	3.0	2.0	0.0	2.0	1.0	2.0	1.0	-001.6329931
3.0	1.0	3.0	1.0	3.0	2.0	0.0	2.0	1.0	2.0	3.0	-000.3818814
3.0	1.0	3.0	1.0	3.0	2.0	0.0	2.0	1.0	2.0	5.0	001.3762045
3.0	1.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	2.0	000.4472135
3.0	1.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	4.0	000.4564354
3.0	1.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	3.0	2.0	000.3651482
3.0	1.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	3.0	4.0	000.3726778
3.0	1.0	3.0	1.0	3.0	2.0	1.0	2.0	1.0	2.0	1.0	000.0000000
3.0	1.0	3.0	1.0	3.0	2.0	1.0	2.0	1.0	2.0	3.0	-000.0000000
3.0	1.0	3.0	1.0	3.0	2.0	1.0	2.0	1.0	2.0	5.0	000.0000000
3.0	1.0	3.0	1.0	3.0	2.0	1.0	3.0	1.0	1.0	2.0	-000.5477225
3.0	1.0	3.0	1.0	3.0	2.0	1.0	3.0	1.0	1.0	4.0	-000.5590170
3.0	1.0	3.0	1.0	3.0	2.0	1.0	3.0	1.0	3.0	2.0	-000.4472132
3.0	1.0	3.0	1.0	3.0	2.0	1.0	3.0	1.0	3.0	4.0	-000.4564351
3.0	1.0	3.0	1.0	3.0	3.0	0.0	3.0	1.0	3.0	2.0	-000.4518478
3.0	1.0	3.0	1.0	3.0	3.0	0.0	3.0	1.0	3.0	4.0	-000.1676964
3.0	1.0	3.0	1.0	3.0	3.0	0.0	3.0	1.0	3.0	6.0	001.6850084
3.0	1.0	3.0	1.0	3.0	3.0	1.0	2.0	1.0	2.0	1.0	000.4999998
3.0	1.0	3.0	1.0	3.0	3.0	1.0	2.0	1.0	2.0	3.0	000.6236095
3.0	1.0	3.0	1.0	3.0	3.0	1.0	2.0	1.0	2.0	5.0	000.5618330

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
3.0	1.0	3.0	1.0	3.0	3.0	1.0	000.4330125
3.0	1.0	3.0	1.0	3.0	3.0	1.0	000.5400615
3.0	1.0	3.0	1.0	3.0	3.0	1.0	000.4865612
3.0	1.0	3.0	1.0	3.0	3.0	1.0	000.0000000
3.0	1.0	3.0	1.0	3.0	3.0	1.0	-000.0000000
3.0	1.0	3.0	1.0	3.0	3.0	1.0	000.0000000
3.0	1.0	3.0	1.0	3.0	3.0	1.0	-000.5773501
3.0	1.0	3.0	1.0	3.0	3.0	1.0	-000.7200823
3.0	1.0	3.0	1.0	3.0	3.0	1.0	-000.6487487
3.0	1.0	3.0	1.0	3.0	3.0	1.0	-000.4999995
3.0	1.0	3.0	1.0	3.0	3.0	1.0	-000.6236089
3.0	1.0	3.0	1.0	3.0	3.0	1.0	-000.5618333
3.0	1.0	3.0	1.0	3.0	4.0	0.0	001.6770510
3.0	1.0	3.0	1.0	3.0	4.0	0.0	-000.1901496
3.0	1.0	3.0	1.0	3.0	4.0	0.0	-000.0637810
3.0	1.0	3.0	1.0	3.0	4.0	0.0	001.9426842
3.0	1.0	3.0	1.0	3.0	4.0	1.0	000.6211297
3.0	1.0	3.0	1.0	3.0	4.0	1.0	000.7468941
3.0	1.0	3.0	1.0	3.0	4.0	1.0	000.6485599
3.0	1.0	3.0	1.0	3.0	4.0	1.0	000.5555550
3.0	1.0	3.0	1.0	3.0	4.0	1.0	000.6680419
3.0	1.0	3.0	1.0	3.0	4.0	1.0	000.5800889
3.0	1.0	3.0	1.0	3.0	4.0	1.0	-000.0000000
3.0	1.0	3.0	1.0	3.0	4.0	1.0	000.0000000
3.0	1.0	3.0	1.0	3.0	4.0	1.0	-000.0000000
3.0	1.0	3.0	1.0	3.0	4.0	1.0	000.0000000
3.0	1.0	3.0	1.0	3.0	4.0	1.0	-000.6944438
3.0	1.0	3.0	1.0	3.0	4.0	1.0	-000.8350530

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
3.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0	1.0	3.0	6.0	-000.7251120
3.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0	1.0	5.0	2.0	-000.6211294
3.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0	1.0	5.0	4.0	-000.7468935
3.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0	1.0	5.0	6.0	-000.6485602
3.0	1.0	4.0	1.0	2.0	0.0	1.0	1.0	1.0	1.0	3.0	-000.4629100
3.0	1.0	4.0	1.0	2.0	1.0	0.0	1.0	1.0	1.0	3.0	000.3273268
3.0	1.0	4.0	1.0	2.0	1.0	1.0	0.0	1.0	2.0	4.0	001.1180340
3.0	1.0	4.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	3.0	000.9258201
3.0	1.0	4.0	1.0	2.0	1.0	1.0	2.0	1.0	0.0	2.0	001.0954451
3.0	1.0	4.0	1.0	2.0	1.0	1.0	2.0	1.0	2.0	2.0	-000.2213133
3.0	1.0	4.0	1.0	2.0	1.0	1.0	2.0	1.0	2.0	4.0	-000.2258768
3.0	1.0	4.0	1.0	2.0	2.0	0.0	2.0	1.0	2.0	2.0	000.4517539
3.0	1.0	4.0	1.0	2.0	2.0	0.0	2.0	1.0	2.0	4.0	000.4610693
3.0	1.0	4.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	3.0	-000.4629100
3.0	1.0	4.0	1.0	2.0	2.0	1.0	1.0	1.0	3.0	3.0	000.2519765
3.0	1.0	4.0	1.0	2.0	2.0	1.0	1.0	1.0	3.0	5.0	001.5891040
3.0	1.0	4.0	1.0	2.0	2.0	1.0	2.0	1.0	2.0	2.0	000.7377112
3.0	1.0	4.0	1.0	2.0	2.0	1.0	2.0	1.0	2.0	4.0	000.7529229
3.0	1.0	4.0	1.0	2.0	2.0	1.0	3.0	1.0	1.0	1.0	001.4142134
3.0	1.0	4.0	1.0	2.0	2.0	1.0	3.0	1.0	1.0	3.0	000.1889823
3.0	1.0	4.0	1.0	2.0	2.0	1.0	3.0	1.0	3.0	1.0	-000.0824785
3.0	1.0	4.0	1.0	2.0	2.0	1.0	3.0	1.0	3.0	3.0	-000.1028692
3.0	1.0	4.0	1.0	2.0	2.0	1.0	3.0	1.0	3.0	5.0	-000.0926782
3.0	1.0	4.0	1.0	2.0	3.0	0.0	3.0	1.0	3.0	1.0	000.5000001
3.0	1.0	4.0	1.0	2.0	3.0	0.0	3.0	1.0	3.0	3.0	000.6236094
3.0	1.0	4.0	1.0	2.0	3.0	0.0	3.0	1.0	3.0	5.0	000.5618329
3.0	1.0	4.0	1.0	2.0	3.0	1.0	2.0	1.0	2.0	2.0	-000.5163975
3.0	1.0	4.0	1.0	2.0	3.0	1.0	2.0	1.0	2.0	4.0	-000.5270461

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
3.0	1.0	4.0	1.0	2.0	3.0	1.0	2.0	1.0	4.0	2.0	000.0745351
3.0	1.0	4.0	1.0	2.0	3.0	1.0	2.0	1.0	4.0	4.0	000.4149411
3.0	1.0	4.0	1.0	2.0	3.0	1.0	2.0	1.0	4.0	6.0	001.9456800
3.0	1.0	4.0	1.0	2.0	3.0	1.0	3.0	1.0	3.0	1.0	000.5773501
3.0	1.0	4.0	1.0	2.0	3.0	1.0	3.0	1.0	3.0	3.0	000.7200823
3.0	1.0	4.0	1.0	2.0	3.0	1.0	3.0	1.0	3.0	5.0	000.6487487
3.0	1.0	4.0	1.0	2.0	3.0	1.0	4.0	1.0	2.0	2.0	000.0000000
3.0	1.0	4.0	1.0	2.0	3.0	1.0	4.0	1.0	2.0	4.0	000.0000000
3.0	1.0	4.0	1.0	2.0	3.0	1.0	4.0	1.0	4.0	2.0	000.0000000
3.0	1.0	4.0	1.0	2.0	3.0	1.0	4.0	1.0	4.0	4.0	000.0000000
3.0	1.0	4.0	1.0	2.0	3.0	1.0	4.0	1.0	4.0	6.0	000.0000000
3.0	1.0	4.0	1.0	2.0	4.0	0.0	4.0	1.0	4.0	2.0	000.6185896
3.0	1.0	4.0	1.0	2.0	4.0	0.0	4.0	1.0	4.0	4.0	000.7438396
3.0	1.0	4.0	1.0	2.0	4.0	0.0	4.0	1.0	4.0	6.0	000.6459071
3.0	1.0	4.0	1.0	2.0	4.0	1.0	3.0	1.0	3.0	1.0	-000.4948709
3.0	1.0	4.0	1.0	2.0	4.0	1.0	3.0	1.0	3.0	3.0	-000.6172132
3.0	1.0	4.0	1.0	2.0	4.0	1.0	3.0	1.0	3.0	5.0	-000.5560700
3.0	1.0	4.0	1.0	2.0	4.0	1.0	3.0	1.0	5.0	3.0	000.1254661
3.0	1.0	4.0	1.0	2.0	4.0	1.0	3.0	1.0	5.0	5.0	000.5356229
3.0	1.0	4.0	1.0	2.0	4.0	1.0	3.0	1.0	5.0	7.0	002.2432185
3.0	1.0	4.0	1.0	2.0	4.0	1.0	4.0	1.0	4.0	2.0	000.5532833
3.0	1.0	4.0	1.0	2.0	4.0	1.0	5.0	1.0	3.0	1.0	-001.9364918
3.0	1.0	4.0	1.0	2.0	4.0	1.0	5.0	1.0	3.0	3.0	-000.3450326
3.0	1.0	4.0	1.0	2.0	4.0	1.0	5.0	1.0	3.0	5.0	-000.0870392
3.0	1.0	4.0	1.0	2.0	4.0	1.0	5.0	1.0	5.0	3.0	000.0701376
3.0	1.0	4.0	1.0	2.0	4.0	1.0	5.0	1.0	5.0	5.0	000.0838386
3.0	1.0	4.0	1.0	2.0	4.0	1.0	5.0	1.0	5.0	7.0	000.0716564
3.0	1.0	4.0	1.0	4.0	0.0	1.0	1.0	1.0	1.0	3.0	000.5345225

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
3.0	1.0	4.0	1.0	4.0	1.0	0.0	000.2834734
3.0	1.0	4.0	1.0	4.0	1.0	1.0	001.0650161
3.0	1.0	4.0	1.0	4.0	1.0	1.0	-000.5379143
3.0	1.0	4.0	1.0	4.0	1.0	1.0	000.8017837
3.0	1.0	4.0	1.0	4.0	1.0	2.0	-000.2151656
3.0	1.0	4.0	1.0	4.0	1.0	2.0	001.1499778
3.0	1.0	4.0	1.0	4.0	1.0	2.0	000.1086751
3.0	1.0	4.0	1.0	4.0	2.0	0.0	000.3912303
3.0	1.0	4.0	1.0	4.0	2.0	0.0	000.3992977
3.0	1.0	4.0	1.0	4.0	2.0	1.0	000.2227176
3.0	1.0	4.0	1.0	4.0	2.0	1.0	001.5731330
3.0	1.0	4.0	1.0	4.0	2.0	1.0	-000.5455447
3.0	1.0	4.0	1.0	4.0	2.0	1.0	-000.5504819
3.0	1.0	4.0	1.0	4.0	2.0	2.0	000.6388767
3.0	1.0	4.0	1.0	4.0	2.0	2.0	000.6520505
3.0	1.0	4.0	1.0	4.0	2.0	3.0	-000.0909239
3.0	1.0	4.0	1.0	4.0	2.0	3.0	-000.0917472
3.0	1.0	4.0	1.0	4.0	2.0	3.0	001.4285714
3.0	1.0	4.0	1.0	4.0	2.0	3.0	000.2227178
3.0	1.0	4.0	1.0	4.0	2.0	3.0	000.0321047
3.0	1.0	4.0	1.0	4.0	3.0	0.0	000.4330128
3.0	1.0	4.0	1.0	4.0	3.0	0.0	000.5400614
3.0	1.0	4.0	1.0	4.0	3.0	0.0	000.4865614
3.0	1.0	4.0	1.0	4.0	3.0	1.0	000.0745351
3.0	1.0	4.0	1.0	4.0	3.0	2.0	000.4149411
3.0	1.0	4.0	1.0	4.0	3.0	2.0	001.9456800
3.0	1.0	4.0	1.0	4.0	3.0	2.0	-000.5379146
3.0	1.0	4.0	1.0	4.0	3.0	2.0	-000.6468296

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.0	1.0	4.0	1.0	4.0	3.0	1.0	2.0	1.0	4.0	6.0	-000.5616692
3.0	1.0	4.0	1.0	4.0	3.0	1.0	3.0	1.0	3.0	1.0	000.4999995
3.0	1.0	4.0	1.0	4.0	3.0	1.0	3.0	1.0	3.0	3.0	000.6236089
3.0	1.0	4.0	1.0	4.0	3.0	1.0	3.0	1.0	3.0	5.0	000.5618333
3.0	1.0	4.0	1.0	4.0	3.0	1.0	4.0	1.0	2.0	2.0	000.0000000
3.0	1.0	4.0	1.0	4.0	3.0	1.0	4.0	1.0	2.0	4.0	000.0000000
3.0	1.0	4.0	1.0	4.0	3.0	1.0	4.0	1.0	2.0	6.0	000.0000000
3.0	1.0	4.0	1.0	4.0	3.0	1.0	4.0	1.0	4.0	2.0	000.0000000
3.0	1.0	4.0	1.0	4.0	3.0	1.0	4.0	1.0	4.0	4.0	000.0000000
3.0	1.0	4.0	1.0	4.0	3.0	1.0	4.0	1.0	4.0	6.0	000.0000000
3.0	1.0	4.0	1.0	4.0	4.0	0.0	4.0	1.0	4.0	2.0	000.5357144
3.0	1.0	4.0	1.0	4.0	4.0	0.0	4.0	1.0	4.0	4.0	000.6441842
3.0	1.0	4.0	1.0	4.0	4.0	0.0	4.0	1.0	4.0	6.0	000.5593720
3.0	1.0	4.0	1.0	4.0	4.0	1.0	3.0	1.0	3.0	1.0	000.0158720
3.0	1.0	4.0	1.0	4.0	4.0	1.0	3.0	1.0	3.0	3.0	000.1457785
3.0	1.0	4.0	1.0	4.0	4.0	1.0	3.0	1.0	3.0	5.0	000.5556592
3.0	1.0	4.0	1.0	4.0	4.0	1.0	3.0	1.0	3.0	7.0	002.2524317
3.0	1.0	4.0	1.0	4.0	4.0	1.0	3.0	1.0	5.0	1.0	-000.4969041
3.0	1.0	4.0	1.0	4.0	4.0	1.0	3.0	1.0	5.0	3.0	-000.6519427
3.0	1.0	4.0	1.0	4.0	4.0	1.0	3.0	1.0	5.0	5.0	-000.6957959
3.0	1.0	4.0	1.0	4.0	4.0	1.0	3.0	1.0	5.0	7.0	-000.5756100
3.0	1.0	4.0	1.0	4.0	4.0	1.0	4.0	1.0	4.0	2.0	000.4791564
3.0	1.0	4.0	1.0	4.0	4.0	1.0	4.0	1.0	4.0	4.0	000.5761756
3.0	1.0	4.0	1.0	4.0	4.0	1.0	4.0	1.0	4.0	6.0	000.5003180
3.0	1.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	3.0	1.0	000.0621125
3.0	1.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	3.0	3.0	000.0814926
3.0	1.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	3.0	5.0	000.0869736
3.0	1.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	3.0	7.0	000.0719503

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
3.0	1.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	1.0	-001.9444433
3.0	1.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	3.0	-000.3644472
3.0	1.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	5.0	-000.1089093
3.0	1.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	7.0	-000.0183873
4.0	0.0	4.0	0.0	4.0	1.0	1.0	1.0	0.0	1.0	3.0	-001.1338934
4.0	0.0	4.0	0.0	4.0	1.0	1.0	1.0	0.0	1.0	5.0	001.4301938
4.0	0.0	4.0	0.0	4.0	2.0	1.0	2.0	0.0	2.0	2.0	-001.5649215
4.0	0.0	4.0	0.0	4.0	2.0	1.0	2.0	0.0	2.0	4.0	000.4355977
4.0	0.0	4.0	0.0	4.0	2.0	1.0	2.0	0.0	2.0	6.0	002.0425386
4.0	0.0	4.0	0.0	4.0	3.0	1.0	3.0	0.0	3.0	1.0	-001.7320506
4.0	0.0	4.0	0.0	4.0	3.0	1.0	3.0	0.0	3.0	3.0	000.2945790
4.0	0.0	4.0	0.0	4.0	3.0	1.0	3.0	0.0	3.0	5.0	000.9880946
4.0	0.0	4.0	0.0	4.0	3.0	1.0	3.0	0.0	3.0	7.0	002.5079944
4.0	0.0	4.0	0.0	4.0	4.0	1.0	4.0	0.0	4.0	2.0	000.5844157
4.0	0.0	4.0	0.0	4.0	4.0	1.0	4.0	0.0	4.0	4.0	000.8919467
4.0	0.0	4.0	0.0	4.0	4.0	1.0	4.0	0.0	4.0	6.0	001.3424935
4.0	0.0	4.0	0.0	4.0	4.0	1.0	4.0	0.0	4.0	8.0	002.8968345
4.0	0.0	4.0	1.0	4.0	1.0	1.0	0.0	1.0	0.0	4.0	-001.2247448
4.0	0.0	4.0	1.0	4.0	1.0	1.0	0.0	1.0	2.0	4.0	-000.8660253
4.0	0.0	4.0	1.0	4.0	1.0	1.0	1.0	1.0	1.0	3.0	-000.8964213
4.0	0.0	4.0	1.0	4.0	1.0	1.0	1.0	1.0	1.0	5.0	-000.9045340
4.0	0.0	4.0	1.0	4.0	1.0	1.0	2.0	1.0	0.0	4.0	-000.8660254
4.0	0.0	4.0	1.0	4.0	1.0	1.0	2.0	1.0	2.0	4.0	-000.6123724
4.0	0.0	4.0	1.0	4.0	2.0	1.0	1.0	1.0	1.0	3.0	-000.8964213
4.0	0.0	4.0	1.0	4.0	2.0	1.0	1.0	1.0	1.0	5.0	-000.9045339
4.0	0.0	4.0	1.0	4.0	2.0	1.0	1.0	1.0	3.0	3.0	-000.7319250
4.0	0.0	4.0	1.0	4.0	2.0	1.0	1.0	1.0	3.0	5.0	-000.7385487
4.0	0.0	4.0	1.0	4.0	2.0	1.0	2.0	1.0	2.0	2.0	-001.4285712

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.0	0.0	4.0	1.0	4.0	2.0	1.0	000.1192931
4.0	0.0	4.0	1.0	4.0	2.0	1.0	-001.4916592
4.0	0.0	4.0	1.0	4.0	2.0	1.0	-000.7319250
4.0	0.0	4.0	1.0	4.0	2.0	1.0	-000.7385490
4.0	0.0	4.0	1.0	4.0	2.0	1.0	-000.5976139
4.0	0.0	4.0	1.0	4.0	2.0	1.0	-000.6030227
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-000.7142856
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-000.8589121
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-000.7458293
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-000.6185896
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-000.7438396
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-000.6459071
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-001.6770510
4.0	0.0	4.0	1.0	4.0	3.0	1.0	000.1901496
4.0	0.0	4.0	1.0	4.0	3.0	1.0	000.0637810
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-001.9426842
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-000.6185896
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-000.7438396
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-000.6459071
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-000.5357144
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-000.6441842
4.0	0.0	4.0	1.0	4.0	3.0	1.0	-000.5593720
4.0	0.0	4.0	1.0	4.0	4.0	1.0	-000.5590167
4.0	0.0	4.0	1.0	4.0	4.0	1.0	-000.7334351
4.0	0.0	4.0	1.0	4.0	4.0	1.0	-000.7827690
4.0	0.0	4.0	1.0	4.0	4.0	1.0	-000.6475615
4.0	0.0	4.0	1.0	4.0	4.0	1.0	-000.5000000
4.0	0.0	4.0	1.0	4.0	4.0	1.0	-000.6560041

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
4.0	0.0	4.0	1.0	4.0	4.0	1.0	3.0	1.0	5.0	5.0	-000.7001297
4.0	0.0	4.0	1.0	4.0	4.0	1.0	3.0	1.0	5.0	7.0	-000.5791965
4.0	0.0	4.0	1.0	4.0	4.0	1.0	4.0	1.0	4.0	2.0	000.4967528
4.0	0.0	4.0	1.0	4.0	4.0	1.0	4.0	1.0	4.0	4.0	000.4459727
4.0	0.0	4.0	1.0	4.0	4.0	1.0	4.0	1.0	4.0	6.0	-000.0671248
4.0	0.0	4.0	1.0	4.0	4.0	1.0	4.0	1.0	4.0	8.0	-002.3174678
4.0	0.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	3.0	1.0	-000.5000000
4.0	0.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	3.0	3.0	-000.6560052
4.0	0.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	3.0	5.0	-000.7001308
4.0	0.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	3.0	7.0	-000.5791965
4.0	0.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	1.0	-000.4472137
4.0	0.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	3.0	-000.5867486
4.0	0.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	5.0	-000.6262151
4.0	0.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	7.0	-000.5180492
4.0	1.0	3.0	1.0	3.0	0.0	1.0	1.0	1.0	1.0	4.0	-000.6085806
4.0	1.0	3.0	1.0	3.0	1.0	0.0	1.0	1.0	1.0	4.0	000.3227486
4.0	1.0	3.0	1.0	3.0	1.0	1.0	0.0	1.0	0.0	3.0	-001.2026755
4.0	1.0	3.0	1.0	3.0	1.0	1.0	0.0	1.0	2.0	3.0	000.2834733
4.0	1.0	3.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	4.0	-000.9128708
4.0	1.0	3.0	1.0	3.0	1.0	1.0	2.0	1.0	0.0	3.0	000.5669467
4.0	1.0	3.0	1.0	3.0	1.0	1.0	2.0	1.0	2.0	3.0	-000.1336306
4.0	1.0	3.0	1.0	3.0	1.0	1.0	2.0	1.0	2.0	5.0	-001.3483997
4.0	1.0	3.0	1.0	3.0	2.0	0.0	2.0	1.0	2.0	3.0	000.4546206
4.0	1.0	3.0	1.0	3.0	2.0	0.0	2.0	1.0	2.0	5.0	000.4587349
4.0	1.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	2.0	-001.7249665
4.0	1.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	4.0	-000.2390852
4.0	1.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	3.0	2.0	000.1564921
4.0	1.0	3.0	1.0	3.0	2.0	1.0	1.0	1.0	3.0	4.0	000.1597192

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.0	1.0	3.0 1.0 3.0	2.0 1.0 2.0	1.0 2.0 3.0	-000.7423925
4.0	1.0	3.0 1.0 3.0	2.0 1.0 2.0	1.0 2.0 5.0	-000.7491105
4.0	1.0	3.0 1.0 3.0	2.0 1.0 3.0	1.0 1.0 2.0	000.5477225
4.0	1.0	3.0 1.0 3.0	2.0 1.0 3.0	1.0 1.0 4.0	000.5590170
4.0	1.0	3.0 1.0 3.0	2.0 1.0 3.0	1.0 3.0 2.0	-000.0496906
4.0	1.0	3.0 1.0 3.0	2.0 1.0 3.0	1.0 3.0 4.0	-000.3734472
4.0	1.0	3.0 1.0 3.0	2.0 1.0 3.0	1.0 3.0 6.0	-001.8530282
4.0	1.0	3.0 1.0 3.0	3.0 0.0 3.0	1.0 3.0 2.0	000.5379141
4.0	1.0	3.0 1.0 3.0	3.0 0.0 3.0	1.0 3.0 4.0	000.6468292
4.0	1.0	3.0 1.0 3.0	3.0 0.0 3.0	1.0 3.0 6.0	000.5616691
4.0	1.0	3.0 1.0 3.0	3.0 1.0 2.0	1.0 2.0 1.0	-001.9285716
4.0	1.0	3.0 1.0 3.0	3.0 1.0 2.0	1.0 2.0 3.0	-000.3266521
4.0	1.0	3.0 1.0 3.0	3.0 1.0 2.0	1.0 2.0 5.0	-000.0695601
4.0	1.0	3.0 1.0 3.0	3.0 1.0 2.0	1.0 4.0 1.0	000.0618584
4.0	1.0	3.0 1.0 3.0	3.0 1.0 2.0	1.0 4.0 3.0	000.0771508
4.0	1.0	3.0 1.0 3.0	3.0 1.0 2.0	1.0 4.0 5.0	000.0695086
4.0	1.0	3.0 1.0 3.0	3.0 1.0 3.0	1.0 3.0 2.0	-000.6211297
4.0	1.0	3.0 1.0 3.0	3.0 1.0 3.0	1.0 3.0 4.0	-000.7468941
4.0	1.0	3.0 1.0 3.0	3.0 1.0 3.0	1.0 3.0 6.0	-000.6485599
4.0	1.0	3.0 1.0 3.0	3.0 1.0 4.0	1.0 2.0 1.0	000.4948709
4.0	1.0	3.0 1.0 3.0	3.0 1.0 4.0	1.0 2.0 3.0	000.6172132
4.0	1.0	3.0 1.0 3.0	3.0 1.0 4.0	1.0 2.0 5.0	000.5560700
4.0	1.0	3.0 1.0 3.0	3.0 1.0 4.0	1.0 4.0 1.0	-000.0158720
4.0	1.0	3.0 1.0 3.0	3.0 1.0 4.0	1.0 4.0 3.0	-000.1457785
4.0	1.0	3.0 1.0 3.0	3.0 1.0 4.0	1.0 4.0 5.0	-000.5556592
4.0	1.0	3.0 1.0 3.0	3.0 1.0 4.0	1.0 4.0 7.0	-002.2524306
4.0	1.0	3.0 1.0 3.0	4.0 0.0 4.0	1.0 4.0 1.0	000.5590167
4.0	1.0	3.0 1.0 3.0	4.0 0.0 4.0	1.0 4.0 3.0	000.7334351

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.0	1.0	3.0	1.0	3.0	4.0	0.0	4.0 1.0 4.0 5.0 000.7827690
4.0	1.0	3.0	1.0	3.0	4.0	0.0	4.0 1.0 4.0 7.0 000.6475615
4.0	1.0	3.0	1.0	3.0	4.0	1.0	3.0 1.0 3.0 2.0 000.0000000
4.0	1.0	3.0	1.0	3.0	4.0	1.0	3.0 1.0 3.0 4.0 000.0000000
4.0	1.0	3.0	1.0	3.0	4.0	1.0	3.0 1.0 3.0 6.0 000.0000000
4.0	1.0	3.0	1.0	3.0	4.0	1.0	3.0 1.0 5.0 2.0 000.0000000
4.0	1.0	3.0	1.0	3.0	4.0	1.0	3.0 1.0 5.0 4.0 000.0000000
4.0	1.0	3.0	1.0	3.0	4.0	1.0	3.0 1.0 5.0 6.0 000.0000000
4.0	1.0	3.0	1.0	3.0	4.0	1.0	4.0 1.0 4.0 1.0 -000.4999997
4.0	1.0	3.0	1.0	3.0	4.0	1.0	4.0 1.0 4.0 3.0 -000.6560045
4.0	1.0	3.0	1.0	3.0	4.0	1.0	4.0 1.0 4.0 5.0 -000.7001310
4.0	1.0	3.0	1.0	3.0	4.0	1.0	4.0 1.0 4.0 7.0 -000.5791962
4.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0 1.0 3.0 2.0 000.5357138
4.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0 1.0 3.0 4.0 000.6441841
4.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0 1.0 3.0 6.0 000.5593719
4.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0 1.0 5.0 2.0 -000.0435592
4.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0 1.0 5.0 4.0 -000.2216057
4.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0 1.0 5.0 6.0 -000.7004444
4.0	1.0	3.0	1.0	3.0	4.0	1.0	5.0 1.0 5.0 8.0 -002.5910076
4.0	1.0	3.0	1.0	5.0	0.0	1.0	1.0 1.0 1.0 4.0 000.6804138
4.0	1.0	3.0	1.0	5.0	1.0	0.0	1.0 1.0 1.0 4.0 000.2886750
4.0	1.0	3.0	1.0	5.0	1.0	1.0	0.0 1.0 2.0 3.0 -001.2677313
4.0	1.0	3.0	1.0	5.0	1.0	1.0	1.0 1.0 1.0 4.0 -000.8164966
4.0	1.0	3.0	1.0	5.0	1.0	1.0	2.0 1.0 0.0 5.0 -001.2792042
4.0	1.0	3.0	1.0	5.0	1.0	1.0	2.0 1.0 2.0 3.0 000.5976143
4.0	1.0	3.0	1.0	5.0	1.0	1.0	2.0 1.0 2.0 5.0 000.6030226
4.0	1.0	3.0	1.0	5.0	2.0	0.0	2.0 1.0 2.0 3.0 000.4066251
4.0	1.0	3.0	1.0	5.0	2.0	0.0	2.0 1.0 2.0 5.0 000.4103050

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.0	1.0	3.0	1.0	5.0	2.0	1.0	000.1360827
4.0	1.0	3.0	1.0	5.0	2.0	1.0	-001.7496351
4.0	1.0	3.0	1.0	5.0	2.0	1.0	-000.2857144
4.0	1.0	3.0	1.0	5.0	2.0	1.0	-000.6640158
4.0	1.0	3.0	1.0	5.0	2.0	1.0	-000.6700254
4.0	1.0	3.0	1.0	5.0	2.0	1.0	-000.3181818
4.0	1.0	3.0	1.0	5.0	2.0	1.0	-001.8269022
4.0	1.0	3.0	1.0	5.0	2.0	1.0	000.5555554
4.0	1.0	3.0	1.0	5.0	2.0	1.0	000.6680426
4.0	1.0	3.0	1.0	5.0	2.0	1.0	000.5800900
4.0	1.0	3.0	1.0	5.0	3.0	0.0	000.4811248
4.0	1.0	3.0	1.0	5.0	3.0	0.0	000.5785419
4.0	1.0	3.0	1.0	5.0	3.0	0.0	000.5023721
4.0	1.0	3.0	1.0	5.0	3.0	1.0	000.0664010
4.0	1.0	3.0	1.0	5.0	3.0	1.0	000.0670021
4.0	1.0	3.0	1.0	5.0	3.0	1.0	-001.9364907
4.0	1.0	3.0	1.0	5.0	3.0	1.0	-000.3450326
4.0	1.0	3.0	1.0	5.0	3.0	1.0	-000.0870380
4.0	1.0	3.0	1.0	5.0	3.0	1.0	-000.5555550
4.0	1.0	3.0	1.0	5.0	3.0	1.0	-000.6680419
4.0	1.0	3.0	1.0	5.0	3.0	1.0	-000.5800889
4.0	1.0	3.0	1.0	5.0	3.0	1.0	-000.1254661
4.0	1.0	3.0	1.0	5.0	3.0	1.0	-000.5356229
4.0	1.0	3.0	1.0	5.0	3.0	1.0	-002.2432185
4.0	1.0	3.0	1.0	5.0	3.0	1.0	000.4969041
4.0	1.0	3.0	1.0	5.0	3.0	1.0	000.6519427
4.0	1.0	3.0	1.0	5.0	3.0	1.0	000.6957945
4.0	1.0	3.0	1.0	5.0	3.0	1.0	000.5756100

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
4.0	1.0	3.0	1.0	5.0	4.0	0.0	4.0	1.0	4.0	1.0	000.5000000
4.0	1.0	3.0	1.0	5.0	4.0	0.0	4.0	1.0	4.0	3.0	000.6560041
4.0	1.0	3.0	1.0	5.0	4.0	0.0	4.0	1.0	4.0	5.0	000.7001297
4.0	1.0	3.0	1.0	5.0	4.0	0.0	4.0	1.0	4.0	7.0	000.5791965
4.0	1.0	3.0	1.0	5.0	4.0	1.0	3.0	1.0	3.0	2.0	000.0000000
4.0	1.0	3.0	1.0	5.0	4.0	1.0	3.0	1.0	3.0	4.0	000.0000000
4.0	1.0	3.0	1.0	5.0	4.0	1.0	3.0	1.0	3.0	6.0	000.0000000
4.0	1.0	3.0	1.0	5.0	4.0	1.0	3.0	1.0	5.0	2.0	000.0000000
4.0	1.0	3.0	1.0	5.0	4.0	1.0	3.0	1.0	5.0	4.0	000.0000000
4.0	1.0	3.0	1.0	5.0	4.0	1.0	3.0	1.0	5.0	6.0	000.0000000
4.0	1.0	3.0	1.0	5.0	4.0	1.0	4.0	1.0	4.0	1.0	-000.4472119
4.0	1.0	3.0	1.0	5.0	4.0	1.0	4.0	1.0	4.0	3.0	-000.5867485
4.0	1.0	3.0	1.0	5.0	4.0	1.0	4.0	1.0	4.0	5.0	-000.6262165
4.0	1.0	3.0	1.0	5.0	4.0	1.0	4.0	1.0	4.0	7.0	-000.5180493
4.0	1.0	3.0	1.0	5.0	4.0	1.0	5.0	1.0	3.0	2.0	-000.0435592
4.0	1.0	3.0	1.0	5.0	4.0	1.0	5.0	1.0	3.0	4.0	-000.2216057
4.0	1.0	3.0	1.0	5.0	4.0	1.0	5.0	1.0	3.0	6.0	-000.7004444
4.0	1.0	3.0	1.0	5.0	4.0	1.0	5.0	1.0	3.0	8.0	-002.5910076
4.0	1.0	3.0	1.0	5.0	4.0	1.0	5.0	1.0	5.0	2.0	000.0495866
4.0	1.0	3.0	1.0	5.0	4.0	1.0	5.0	1.0	5.0	4.0	000.0630669
4.0	1.0	3.0	1.0	5.0	4.0	1.0	5.0	1.0	5.0	6.0	000.0650905
4.0	1.0	3.0	1.0	5.0	4.0	1.0	5.0	1.0	5.0	8.0	000.0526697
4.0	1.0	4.0	0.0	4.0	0.0	0.0	0.0	0.0	0.0	4.0	-001.2247449
4.0	1.0	4.0	0.0	4.0	1.0	0.0	1.0	0.0	1.0	3.0	-001.7928428
4.0	1.0	4.0	0.0	4.0	1.0	0.0	1.0	0.0	1.0	5.0	-001.8090680
4.0	1.0	4.0	0.0	4.0	1.0	1.0	1.0	0.0	1.0	3.0	000.0000000
4.0	1.0	4.0	0.0	4.0	1.0	1.0	1.0	0.0	1.0	5.0	000.0000000
4.0	1.0	4.0	0.0	4.0	2.0	0.0	2.0	0.0	2.0	2.0	-002.1428569

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.0	1.0	4.0	0.0	4.0	2.0	0.0	-001.3519909
4.0	1.0	4.0	0.0	4.0	2.0	0.0	-002.2374888
4.0	1.0	4.0	0.0	4.0	2.0	1.0	000.0000000
4.0	1.0	4.0	0.0	4.0	2.0	1.0	000.0000000
4.0	1.0	4.0	0.0	4.0	2.0	1.0	000.0000000
4.0	1.0	4.0	0.0	4.0	2.0	1.0	000.0000000
4.0	1.0	4.0	0.0	4.0	3.0	0.0	-002.2360676
4.0	1.0	4.0	0.0	4.0	3.0	0.0	-001.1408999
4.0	1.0	4.0	0.0	4.0	3.0	0.0	-001.3220109
4.0	1.0	4.0	0.0	4.0	3.0	0.0	-002.5902459
4.0	1.0	4.0	0.0	4.0	3.0	1.0	000.0000000
4.0	1.0	4.0	0.0	4.0	3.0	1.0	000.0000000
4.0	1.0	4.0	0.0	4.0	3.0	1.0	000.0000000
4.0	1.0	4.0	0.0	4.0	3.0	1.0	000.0000000
4.0	1.0	4.0	0.0	4.0	3.0	1.0	000.0000000
4.0	1.0	4.0	0.0	4.0	4.0	0.0	-000.5844157
4.0	1.0	4.0	0.0	4.0	4.0	0.0	-000.8919467
4.0	1.0	4.0	0.0	4.0	4.0	0.0	-001.3424935
4.0	1.0	4.0	0.0	4.0	4.0	0.0	-002.8968345
4.0	1.0	4.0	0.0	4.0	4.0	1.0	000.0000000
4.0	1.0	4.0	0.0	4.0	4.0	1.0	000.0000000
4.0	1.0	4.0	0.0	4.0	4.0	1.0	000.0000000
4.0	1.0	4.0	0.0	4.0	4.0	1.0	000.0000000
4.0	1.0	4.0	1.0	4.0	1.0	0.0	-001.4173668
4.0	1.0	4.0	1.0	4.0	1.0	0.0	001.1441551
4.0	1.0	4.0	1.0	4.0	1.0	1.0	000.2738612
4.0	1.0	4.0	1.0	4.0	1.0	1.0	000.1936491
4.0	1.0	4.0	1.0	4.0	1.0	1.0	-000.0000000
4.0	1.0	4.0	1.0	4.0	1.0	1.0	000.0000000
4.0	1.0	4.0	1.0	4.0	1.0	1.0	-000.3872983

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
4.0	1.0	4.0	1.0	4.0	1.0	1.0	2.0	1.0	2.0	4.0	-000.2738613
4.0	1.0	4.0	1.0	4.0	2.0	0.0	2.0	1.0	2.0	2.0	-001.9561519
4.0	1.0	4.0	1.0	4.0	2.0	0.0	2.0	1.0	2.0	4.0	-000.3702580
4.0	1.0	4.0	1.0	4.0	2.0	0.0	2.0	1.0	2.0	6.0	001.6340307
4.0	1.0	4.0	1.0	4.0	2.0	1.0	1.0	1.0	1.0	3.0	000.4008917
4.0	1.0	4.0	1.0	4.0	2.0	1.0	1.0	1.0	1.0	5.0	000.4045196
4.0	1.0	4.0	1.0	4.0	2.0	1.0	1.0	1.0	3.0	3.0	000.3273266
4.0	1.0	4.0	1.0	4.0	2.0	1.0	1.0	1.0	3.0	5.0	000.3302887
4.0	1.0	4.0	1.0	4.0	2.0	1.0	2.0	1.0	2.0	2.0	000.0000000
4.0	1.0	4.0	1.0	4.0	2.0	1.0	2.0	1.0	2.0	4.0	-000.0000000
4.0	1.0	4.0	1.0	4.0	2.0	1.0	2.0	1.0	2.0	6.0	000.0000000
4.0	1.0	4.0	1.0	4.0	2.0	1.0	3.0	1.0	1.0	3.0	-000.4909901
4.0	1.0	4.0	1.0	4.0	2.0	1.0	3.0	1.0	1.0	5.0	-000.4954333
4.0	1.0	4.0	1.0	4.0	2.0	1.0	3.0	1.0	3.0	3.0	-000.4008917
4.0	1.0	4.0	1.0	4.0	2.0	1.0	3.0	1.0	3.0	5.0	-000.4045199
4.0	1.0	4.0	1.0	4.0	3.0	0.0	3.0	1.0	3.0	1.0	-002.1650629
4.0	1.0	4.0	1.0	4.0	3.0	0.0	3.0	1.0	3.0	3.0	-000.7364477
4.0	1.0	4.0	1.0	4.0	3.0	0.0	3.0	1.0	3.0	5.0	-000.0853354
4.0	1.0	4.0	1.0	4.0	3.0	0.0	3.0	1.0	3.0	7.0	002.0063958
4.0	1.0	4.0	1.0	4.0	3.0	1.0	2.0	1.0	2.0	2.0	000.4791573
4.0	1.0	4.0	1.0	4.0	3.0	1.0	2.0	1.0	2.0	4.0	000.5761755
4.0	1.0	4.0	1.0	4.0	3.0	1.0	2.0	1.0	2.0	6.0	000.5003177
4.0	1.0	4.0	1.0	4.0	3.0	1.0	2.0	1.0	4.0	2.0	000.4149622
4.0	1.0	4.0	1.0	4.0	3.0	1.0	2.0	1.0	4.0	4.0	000.4989823
4.0	1.0	4.0	1.0	4.0	3.0	1.0	2.0	1.0	4.0	6.0	000.4332865
4.0	1.0	4.0	1.0	4.0	3.0	1.0	3.0	1.0	3.0	1.0	-000.0000000
4.0	1.0	4.0	1.0	4.0	3.0	1.0	3.0	1.0	3.0	3.0	000.0000000
4.0	1.0	4.0	1.0	4.0	3.0	1.0	3.0	1.0	3.0	5.0	-000.0000000

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.0	1.0	4.0	1.0	4.0	3.0	1.0	000.0000000
4.0	1.0	4.0	1.0	4.0	3.0	1.0	-000.5532833
4.0	1.0	4.0	1.0	4.0	3.0	1.0	-000.6653096
4.0	1.0	4.0	1.0	4.0	3.0	1.0	-000.5777169
4.0	1.0	4.0	1.0	4.0	3.0	1.0	-000.4791564
4.0	1.0	4.0	1.0	4.0	3.0	1.0	-000.5761756
4.0	1.0	4.0	1.0	4.0	3.0	1.0	-000.5003180
4.0	1.0	4.0	1.0	4.0	4.0	0.0	-000.4967528
4.0	1.0	4.0	1.0	4.0	4.0	0.0	-000.4459740
4.0	1.0	4.0	1.0	4.0	4.0	0.0	000.0671248
4.0	1.0	4.0	1.0	4.0	4.0	0.0	002.3174678
4.0	1.0	4.0	1.0	4.0	4.0	1.0	000.4999997
4.0	1.0	4.0	1.0	4.0	4.0	1.0	000.6560045
4.0	1.0	4.0	1.0	4.0	4.0	1.0	000.7001295
4.0	1.0	4.0	1.0	4.0	4.0	1.0	000.5791962
4.0	1.0	4.0	1.0	4.0	4.0	1.0	000.4472119
4.0	1.0	4.0	1.0	4.0	4.0	1.0	000.5867485
4.0	1.0	4.0	1.0	4.0	4.0	1.0	000.6262165
4.0	1.0	4.0	1.0	4.0	4.0	1.0	000.5180493
4.0	1.0	4.0	1.0	4.0	4.0	1.0	-000.0000000
4.0	1.0	4.0	1.0	4.0	4.0	1.0	000.0000000
4.0	1.0	4.0	1.0	4.0	4.0	1.0	-000.0000000
4.0	1.0	4.0	1.0	4.0	4.0	1.0	000.0000000
4.0	1.0	4.0	1.0	4.0	4.0	1.0	-000.5590159
4.0	1.0	4.0	1.0	4.0	4.0	1.0	-000.7334358
4.0	1.0	4.0	1.0	4.0	4.0	1.0	-000.7827698
4.0	1.0	4.0	1.0	4.0	4.0	1.0	-000.6475605
4.0	1.0	4.0	1.0	4.0	4.0	1.0	-000.4999983

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.0	1.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	3.0	-000.6560032
4.0	1.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	5.0	-000.7001309
4.0	1.0	4.0	1.0	4.0	4.0	1.0	5.0	1.0	5.0	7.0	-000.5791963
4.0	1.0	5.0	1.0	3.0	0.0	1.0	1.0	1.0	1.0	4.0	-000.5443310
4.0	1.0	5.0	1.0	3.0	1.0	0.0	1.0	1.0	1.0	4.0	000.2886750
4.0	1.0	5.0	1.0	3.0	1.0	1.0	0.0	1.0	2.0	5.0	001.2792042
4.0	1.0	5.0	1.0	3.0	1.0	1.0	1.0	1.0	1.0	4.0	001.0206207
4.0	1.0	5.0	1.0	3.0	1.0	1.0	2.0	1.0	0.0	3.0	001.2677313
4.0	1.0	5.0	1.0	3.0	1.0	1.0	2.0	1.0	2.0	3.0	-000.2988072
4.0	1.0	5.0	1.0	3.0	1.0	1.0	2.0	1.0	2.0	5.0	-000.3015114
4.0	1.0	5.0	1.0	3.0	2.0	0.0	2.0	1.0	2.0	3.0	000.4066251
4.0	1.0	5.0	1.0	3.0	2.0	0.0	2.0	1.0	2.0	5.0	000.4103050
4.0	1.0	5.0	1.0	3.0	2.0	1.0	1.0	1.0	1.0	4.0	-000.4762895
4.0	1.0	5.0	1.0	3.0	2.0	1.0	1.0	1.0	3.0	4.0	000.3181818
4.0	1.0	5.0	1.0	3.0	2.0	1.0	1.0	1.0	3.0	6.0	001.8269022
4.0	1.0	5.0	1.0	3.0	2.0	1.0	2.0	1.0	2.0	3.0	000.8300195
4.0	1.0	5.0	1.0	3.0	2.0	1.0	2.0	1.0	2.0	5.0	000.8375312
4.0	1.0	5.0	1.0	3.0	2.0	1.0	3.0	1.0	1.0	2.0	001.7496351
4.0	1.0	5.0	1.0	3.0	2.0	1.0	3.0	1.0	1.0	4.0	000.2857139
4.0	1.0	5.0	1.0	3.0	2.0	1.0	3.0	1.0	3.0	2.0	-000.1587296
4.0	1.0	5.0	1.0	3.0	2.0	1.0	3.0	1.0	3.0	4.0	-000.1908691
4.0	1.0	5.0	1.0	3.0	2.0	1.0	3.0	1.0	3.0	6.0	-000.1657399
4.0	1.0	5.0	1.0	3.0	3.0	0.0	3.0	1.0	3.0	2.0	000.4811248
4.0	1.0	5.0	1.0	3.0	3.0	0.0	3.0	1.0	3.0	4.0	000.5785419
4.0	1.0	5.0	1.0	3.0	3.0	0.0	3.0	1.0	3.0	6.0	000.5023721
4.0	1.0	5.0	1.0	3.0	3.0	1.0	2.0	1.0	2.0	3.0	-000.5312124
4.0	1.0	5.0	1.0	3.0	3.0	1.0	2.0	1.0	2.0	5.0	-000.5360202
4.0	1.0	5.0	1.0	3.0	3.0	1.0	2.0	1.0	4.0	3.0	000.1254661

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.0	1.0	5.0	1.0	3.0	3.0	1.0	2.0	1.0	4.0	5.0	000.5356229
4.0	1.0	5.0	1.0	3.0	3.0	1.0	2.0	1.0	4.0	7.0	002.2432185
4.0	1.0	5.0	1.0	3.0	3.0	1.0	3.0	1.0	3.0	2.0	000.6944438
4.0	1.0	5.0	1.0	3.0	3.0	1.0	3.0	1.0	3.0	4.0	000.8350530
4.0	1.0	5.0	1.0	3.0	3.0	1.0	3.0	1.0	3.0	6.0	000.7251120
4.0	1.0	5.0	1.0	3.0	3.0	1.0	4.0	1.0	2.0	1.0	001.9364918
4.0	1.0	5.0	1.0	3.0	3.0	1.0	4.0	1.0	2.0	3.0	000.3450326
4.0	1.0	5.0	1.0	3.0	3.0	1.0	4.0	1.0	2.0	5.0	000.0870392
4.0	1.0	5.0	1.0	3.0	3.0	1.0	4.0	1.0	4.0	1.0	-000.0621125
4.0	1.0	5.0	1.0	3.0	3.0	1.0	4.0	1.0	4.0	3.0	-000.0814926
4.0	1.0	5.0	1.0	3.0	3.0	1.0	4.0	1.0	4.0	5.0	-000.0869736
4.0	1.0	5.0	1.0	3.0	3.0	1.0	4.0	1.0	4.0	7.0	-000.0719503
4.0	1.0	5.0	1.0	3.0	4.0	0.0	4.0	1.0	4.0	1.0	000.5000000
4.0	1.0	5.0	1.0	3.0	4.0	0.0	4.0	1.0	4.0	3.0	000.6560052
4.0	1.0	5.0	1.0	3.0	4.0	0.0	4.0	1.0	4.0	5.0	000.7001308
4.0	1.0	5.0	1.0	3.0	4.0	0.0	4.0	1.0	4.0	7.0	000.5791965
4.0	1.0	5.0	1.0	3.0	4.0	1.0	3.0	1.0	3.0	2.0	-000.5357138
4.0	1.0	5.0	1.0	3.0	4.0	1.0	3.0	1.0	3.0	4.0	-000.6441841
4.0	1.0	5.0	1.0	3.0	4.0	1.0	3.0	1.0	3.0	6.0	-000.5593719
4.0	1.0	5.0	1.0	3.0	4.0	1.0	3.0	1.0	5.0	2.0	000.0435592
4.0	1.0	5.0	1.0	3.0	4.0	1.0	3.0	1.0	5.0	4.0	000.2216057
4.0	1.0	5.0	1.0	3.0	4.0	1.0	3.0	1.0	5.0	6.0	000.7004444
4.0	1.0	5.0	1.0	3.0	4.0	1.0	3.0	1.0	5.0	8.0	002.5910076
4.0	1.0	5.0	1.0	3.0	4.0	1.0	4.0	1.0	4.0	1.0	000.5590159
4.0	1.0	5.0	1.0	3.0	4.0	1.0	4.0	1.0	4.0	3.0	000.7334358
4.0	1.0	5.0	1.0	3.0	4.0	1.0	4.0	1.0	4.0	5.0	000.7827698
4.0	1.0	5.0	1.0	3.0	4.0	1.0	4.0	1.0	4.0	7.0	000.6475605
4.0	1.0	5.0	1.0	3.0	4.0	1.0	5.0	1.0	3.0	2.0	000.0000000

J_1	S''	ℓ_1	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
4.0	1.0	5.0	1.0	3.0	4.0	1.0	5.0	1.0	3.0	4.0	000.0000000
4.0	1.0	5.0	1.0	3.0	4.0	1.0	5.0	1.0	3.0	6.0	000.0000000
4.0	1.0	5.0	1.0	3.0	4.0	1.0	5.0	1.0	5.0	2.0	000.0000000
4.0	1.0	5.0	1.0	3.0	4.0	1.0	5.0	1.0	5.0	4.0	000.0000000
4.0	1.0	5.0	1.0	3.0	4.0	1.0	5.0	1.0	5.0	6.0	000.0000000
4.0	1.0	5.0	1.0	3.0	4.0	1.0	5.0	1.0	5.0	8.0	000.0000000
4.0	1.0	5.0	1.0	5.0	0.0	1.0	1.0	1.0	1.0	4.0	000.6085805
4.0	1.0	5.0	1.0	5.0	1.0	0.0	1.0	1.0	1.0	4.0	000.2581988
4.0	1.0	5.0	1.0	5.0	1.0	1.0	0.0	1.0	0.0	5.0	001.2135597
4.0	1.0	5.0	1.0	5.0	1.0	1.0	0.0	1.0	2.0	5.0	-000.5720775
4.0	1.0	5.0	1.0	5.0	1.0	1.0	1.0	1.0	1.0	4.0	000.9128710
4.0	1.0	5.0	1.0	5.0	1.0	1.0	2.0	1.0	0.0	5.0	-000.2860388
4.0	1.0	5.0	1.0	5.0	1.0	1.0	2.0	1.0	2.0	3.0	001.3363063
4.0	1.0	5.0	1.0	5.0	1.0	1.0	2.0	1.0	2.0	5.0	000.1348400
4.0	1.0	5.0	1.0	5.0	2.0	0.0	2.0	1.0	2.0	3.0	000.3636965
4.0	1.0	5.0	1.0	5.0	2.0	0.0	2.0	1.0	2.0	5.0	000.3669879
4.0	1.0	5.0	1.0	5.0	2.0	1.0	1.0	1.0	1.0	4.0	000.2710948
4.0	1.0	5.0	1.0	5.0	2.0	1.0	1.0	1.0	1.0	6.0	001.8011437
4.0	1.0	5.0	1.0	5.0	2.0	1.0	1.0	1.0	3.0	4.0	-000.5691807
4.0	1.0	5.0	1.0	5.0	2.0	1.0	1.0	1.0	3.0	6.0	-000.5719109
4.0	1.0	5.0	1.0	5.0	2.0	1.0	2.0	1.0	2.0	3.0	000.7423924
4.0	1.0	5.0	1.0	5.0	2.0	1.0	2.0	1.0	2.0	5.0	000.7491106
4.0	1.0	5.0	1.0	5.0	2.0	1.0	3.0	1.0	1.0	4.0	-000.1626228
4.0	1.0	5.0	1.0	5.0	2.0	1.0	3.0	1.0	1.0	6.0	-000.1634033
4.0	1.0	5.0	1.0	5.0	2.0	1.0	3.0	1.0	3.0	2.0	001.7746573
4.0	1.0	5.0	1.0	5.0	2.0	1.0	3.0	1.0	3.0	4.0	000.3414374
4.0	1.0	5.0	1.0	5.0	2.0	1.0	3.0	1.0	3.0	6.0	000.0518847
4.0	1.0	5.0	1.0	5.0	3.0	0.0	3.0	1.0	3.0	2.0	000.4303310

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
4.0	1.0	5.0	1.0	5.0	3.0	0.0	3.0	1.0	3.0	4.0	000.5174632
4.0	1.0	5.0	1.0	5.0	3.0	0.0	3.0	1.0	3.0	6.0	000.4493350
4.0	1.0	5.0	1.0	5.0	3.0	1.0	2.0	1.0	2.0	3.0	000.1079843
4.0	1.0	5.0	1.0	5.0	3.0	1.0	2.0	1.0	2.0	5.0	000.5163102
4.0	1.0	5.0	1.0	5.0	3.0	1.0	2.0	1.0	2.0	7.0	002.2340436
4.0	1.0	5.0	1.0	5.0	3.0	1.0	2.0	1.0	4.0	3.0	-000.5611024
4.0	1.0	5.0	1.0	5.0	3.0	1.0	2.0	1.0	4.0	5.0	-000.6707068
4.0	1.0	5.0	1.0	5.0	3.0	1.0	2.0	1.0	4.0	7.0	-000.5732552
4.0	1.0	5.0	1.0	5.0	3.0	1.0	3.0	1.0	3.0	2.0	000.6211294
4.0	1.0	5.0	1.0	5.0	3.0	1.0	3.0	1.0	3.0	4.0	000.7468935
4.0	1.0	5.0	1.0	5.0	3.0	1.0	3.0	1.0	3.0	6.0	000.6485602
4.0	1.0	5.0	1.0	5.0	3.0	1.0	4.0	1.0	2.0	3.0	-000.0701376
4.0	1.0	5.0	1.0	5.0	3.0	1.0	4.0	1.0	2.0	5.0	-000.0838386
4.0	1.0	5.0	1.0	5.0	3.0	1.0	4.0	1.0	2.0	7.0	-000.0716564
4.0	1.0	5.0	1.0	5.0	3.0	1.0	4.0	1.0	4.0	1.0	001.9444433
4.0	1.0	5.0	1.0	5.0	3.0	1.0	4.0	1.0	4.0	3.0	000.3644472
4.0	1.0	5.0	1.0	5.0	3.0	1.0	4.0	1.0	4.0	5.0	000.1089093
4.0	1.0	5.0	1.0	5.0	3.0	1.0	4.0	1.0	4.0	7.0	000.0183873
4.0	1.0	5.0	1.0	5.0	4.0	0.0	4.0	1.0	4.0	1.0	000.4472137
4.0	1.0	5.0	1.0	5.0	4.0	0.0	4.0	1.0	4.0	3.0	000.5867486
4.0	1.0	5.0	1.0	5.0	4.0	0.0	4.0	1.0	4.0	5.0	000.6262151
4.0	1.0	5.0	1.0	5.0	4.0	0.0	4.0	1.0	4.0	7.0	000.5180492
4.0	1.0	5.0	1.0	5.0	4.0	1.0	3.0	1.0	3.0	2.0	000.0435592
4.0	1.0	5.0	1.0	5.0	4.0	1.0	3.0	1.0	3.0	4.0	000.2216057
4.0	1.0	5.0	1.0	5.0	4.0	1.0	3.0	1.0	3.0	6.0	000.7004444
4.0	1.0	5.0	1.0	5.0	4.0	1.0	3.0	1.0	3.0	8.0	002.5910076
4.0	1.0	5.0	1.0	5.0	4.0	1.0	3.0	1.0	5.0	2.0	-000.0495866
4.0	1.0	5.0	1.0	5.0	4.0	1.0	3.0	1.0	5.0	4.0	-000.0630669

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.0	1.0	5.0	1.0	5.0	4.0	1.0	3.0	1.0	5.0	6.0	-000.0650905
4.0	1.0	5.0	1.0	5.0	4.0	1.0	3.0	1.0	5.0	8.0	-000.0526697
4.0	1.0	5.0	1.0	5.0	4.0	1.0	4.0	1.0	4.0	1.0	000.4999983
4.0	1.0	5.0	1.0	5.0	4.0	1.0	4.0	1.0	4.0	3.0	000.6560032
4.0	1.0	5.0	1.0	5.0	4.0	1.0	4.0	1.0	4.0	5.0	000.7001309
4.0	1.0	5.0	1.0	5.0	4.0	1.0	4.0	1.0	4.0	7.0	000.5791963
4.0	1.0	5.0	1.0	5.0	4.0	1.0	5.0	1.0	3.0	2.0	000.0000000
4.0	1.0	5.0	1.0	5.0	4.0	1.0	5.0	1.0	3.0	4.0	000.0000000
4.0	1.0	5.0	1.0	5.0	4.0	1.0	5.0	1.0	3.0	6.0	000.0000000
4.0	1.0	5.0	1.0	5.0	4.0	1.0	5.0	1.0	3.0	8.0	000.0000000
4.0	1.0	5.0	1.0	5.0	4.0	1.0	5.0	1.0	5.0	2.0	000.0000000
4.0	1.0	5.0	1.0	5.0	4.0	1.0	5.0	1.0	5.0	4.0	000.0000000
4.0	1.0	5.0	1.0	5.0	4.0	1.0	5.0	1.0	5.0	6.0	000.0000000
4.0	1.0	5.0	1.0	5.0	4.0	1.0	5.0	1.0	5.0	8.0	000.0000000
0.5	0.5	0.0	0.5	0.0	0.5	0.5	1.0	0.5	1.0	1.0	000.2222222
0.5	0.5	0.0	0.5	0.0	0.5	1.5	1.0	0.5	1.0	1.0	000.3142697
0.5	0.5	0.0	0.5	0.0	0.5	0.5	1.0	0.5	1.0	1.0	000.2222222
0.5	0.5	0.0	0.5	0.0	0.5	1.5	1.0	0.5	1.0	1.0	000.3142697
0.5	0.5	0.0	0.5	0.0	1.5	0.5	1.0	0.5	1.0	1.0	-000.2222222
0.5	0.5	0.0	0.5	0.0	1.5	0.5	2.0	0.5	2.0	2.0	000.2981424
0.5	0.5	0.0	0.5	0.0	1.5	1.5	1.0	0.5	1.0	1.0	000.9938080
0.5	0.5	0.0	0.5	0.0	1.5	1.5	2.0	0.5	2.0	2.0	000.5962848
0.5	0.5	0.0	0.5	0.0	2.5	0.5	2.0	0.5	2.0	2.0	-000.2981424
0.5	0.5	0.0	0.5	0.0	2.5	0.5	3.0	0.5	3.0	3.0	000.3563483
0.5	0.5	0.0	0.5	0.0	2.5	1.5	2.0	0.5	2.0	2.0	001.1155467
0.5	0.5	0.0	0.5	0.0	2.5	1.5	3.0	0.5	3.0	3.0	000.7968191
0.5	0.5	0.0	0.5	0.0	3.5	0.5	3.0	0.5	3.0	3.0	-000.3563483
0.5	0.5	0.0	0.5	0.0	3.5	0.5	4.0	0.5	4.0	4.0	000.4057204

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
0.5	0.5	0.0	0.5	0.0	3.5	1.5	3.0	0.5	3.0	3.0	001.2344268
0.5	0.5	0.0	0.5	0.0	3.5	1.5	4.0	0.5	4.0	4.0	000.9601097
0.5	0.5	0.0	0.5	0.0	4.5	0.5	4.0	0.5	4.0	4.0	-000.4057204
0.5	0.5	0.0	0.5	0.0	4.5	0.5	5.0	0.5	5.0	5.0	000.4494666
0.5	0.5	0.0	0.5	0.0	4.5	1.5	4.0	0.5	4.0	4.0	001.3456224
0.5	0.5	0.0	0.5	0.0	4.5	1.5	5.0	0.5	5.0	5.0	001.1009638
0.5	0.5	0.0	1.5	2.0	0.5	0.5	1.0	1.5	1.0	1.0	000.2222222
0.5	0.5	0.0	1.5	2.0	0.5	1.5	1.0	1.5	1.0	1.0	000.3142697
0.5	0.5	0.0	1.5	2.0	1.5	0.5	1.0	1.5	1.0	1.0	000.0702728
0.5	0.5	0.0	1.5	2.0	1.5	0.5	1.0	1.5	3.0	1.0	-000.2108185
0.5	0.5	0.0	1.5	2.0	1.5	0.5	2.0	1.5	0.0	2.0	-000.2108185
0.5	0.5	0.0	1.5	2.0	1.5	0.5	2.0	1.5	2.0	2.0	000.2108185
0.5	0.5	0.0	1.5	2.0	1.5	1.5	1.0	1.5	1.0	1.0	-000.3142697
0.5	0.5	0.0	1.5	2.0	1.5	1.5	1.0	1.5	3.0	1.0	000.9428090
0.5	0.5	0.0	1.5	2.0	1.5	1.5	2.0	1.5	0.0	2.0	-000.4216370
0.5	0.5	0.0	1.5	2.0	1.5	1.5	2.0	1.5	2.0	2.0	000.4216370
0.5	0.5	0.0	1.5	2.0	2.5	0.5	2.0	1.5	2.0	2.0	000.1126872
0.5	0.5	0.0	1.5	2.0	2.5	0.5	2.0	1.5	4.0	2.0	-000.2760262
0.5	0.5	0.0	1.5	2.0	2.5	0.5	3.0	1.5	1.0	3.0	-000.2760262
0.5	0.5	0.0	1.5	2.0	2.5	0.5	3.0	1.5	3.0	3.0	000.2253745
0.5	0.5	0.0	1.5	2.0	2.5	1.5	2.0	1.5	2.0	2.0	-000.4216370
0.5	0.5	0.0	1.5	2.0	2.5	1.5	2.0	1.5	4.0	2.0	001.0327955
0.5	0.5	0.0	1.5	2.0	2.5	1.5	3.0	1.5	1.0	3.0	-000.6172134
0.5	0.5	0.0	1.5	2.0	2.5	1.5	3.0	1.5	3.0	3.0	000.5039526
0.5	0.5	0.0	1.5	2.0	3.5	0.5	3.0	1.5	3.0	3.0	000.1454786
0.5	0.5	0.0	1.5	2.0	3.5	0.5	3.0	1.5	5.0	3.0	-000.3253000
0.5	0.5	0.0	1.5	2.0	3.5	0.5	4.0	1.5	2.0	4.0	-000.3253000
0.5	0.5	0.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	4.0	000.2424643

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
0.5	0.5	0.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	3.0	-000.5039526
0.5	0.5	0.0	1.5	2.0	3.5	1.5	3.0	1.5	5.0	3.0	001.1268723
0.5	0.5	0.0	1.5	2.0	3.5	1.5	4.0	1.5	2.0	4.0	-000.7698003
0.5	0.5	0.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	4.0	000.5737752
0.5	0.5	0.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	4.0	000.1729997
0.5	0.5	0.0	1.5	2.0	4.5	0.5	4.0	1.5	6.0	4.0	-000.3669878
0.5	0.5	0.0	1.5	2.0	4.5	0.5	5.0	1.5	3.0	5.0	-000.3669879
0.5	0.5	0.0	1.5	2.0	4.5	0.5	5.0	1.5	5.0	5.0	000.2594996
0.5	0.5	0.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	4.0	-000.5737753
0.5	0.5	0.0	1.5	2.0	4.5	1.5	4.0	1.5	6.0	4.0	001.2171612
0.5	0.5	0.0	1.5	2.0	4.5	1.5	5.0	1.5	3.0	5.0	-000.8989331
0.5	0.5	0.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	5.0	000.6356416
0.5	0.5	1.0	0.5	1.0	0.5	0.5	0.0	0.5	0.0	1.0	-000.2222222
0.5	0.5	1.0	0.5	1.0	0.5	1.5	2.0	0.5	0.0	1.0	-000.3142697
0.5	0.5	1.0	0.5	1.0	1.5	0.5	1.0	0.5	1.0	2.0	-000.2981424
0.5	0.5	1.0	0.5	1.0	1.5	0.5	2.0	0.5	2.0	1.0	000.2222222
0.5	0.5	1.0	0.5	1.0	1.5	1.5	0.0	0.5	2.0	1.0	000.4444444
0.5	0.5	1.0	0.5	1.0	1.5	1.5	1.0	0.5	1.0	2.0	000.5333333
0.5	0.5	1.0	0.5	1.0	1.5	1.5	2.0	0.5	2.0	1.0	000.8888889
0.5	0.5	1.0	0.5	1.0	1.5	1.5	3.0	0.5	1.0	2.0	-000.2666666
0.5	0.5	1.0	0.5	1.0	2.5	0.5	2.0	0.5	2.0	3.0	-000.3563483
0.5	0.5	1.0	0.5	1.0	2.5	0.5	3.0	0.5	3.0	2.0	000.2981424
0.5	0.5	1.0	0.5	1.0	2.5	1.5	1.0	0.5	3.0	2.0	000.3265986
0.5	0.5	1.0	0.5	1.0	2.5	1.5	2.0	0.5	2.0	3.0	000.7619047
0.5	0.5	1.0	0.5	1.0	2.5	1.5	3.0	0.5	3.0	2.0	001.0666667
0.5	0.5	1.0	0.5	1.0	2.5	1.5	4.0	0.5	2.0	3.0	-000.2332847
0.5	0.5	1.0	0.5	1.0	3.5	0.5	3.0	0.5	3.0	4.0	-000.4057203
0.5	0.5	1.0	0.5	1.0	3.5	0.5	4.0	0.5	4.0	3.0	000.3563483

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
0.5	0.5	1.0	0.5	1.0	3.5	1.5	000.2693740
0.5	0.5	1.0	0.5	1.0	3.5	1.5	000.9369712
0.5	0.5	1.0	0.5	1.0	3.5	1.5	001.2046772
0.5	0.5	1.0	0.5	1.0	3.5	1.5	-000.2095130
0.5	0.5	1.0	0.5	1.0	4.5	0.5	-000.4494665
0.5	0.5	1.0	0.5	1.0	4.5	0.5	000.4057204
0.5	0.5	1.0	0.5	1.0	4.5	1.5	000.2342428
0.5	0.5	1.0	0.5	1.0	4.5	1.5	001.0841541
0.5	0.5	1.0	0.5	1.0	4.5	1.5	001.3250771
0.5	0.5	1.0	0.5	1.0	4.5	1.5	-000.1916531
0.5	0.5	1.0	1.5	1.0	0.5	0.5	-000.2222222
0.5	0.5	1.0	1.5	1.0	0.5	1.5	-000.3142697
0.5	0.5	1.0	1.5	1.0	1.5	0.5	000.0942809
0.5	0.5	1.0	1.5	1.0	1.5	0.5	-000.2828427
0.5	0.5	1.0	1.5	1.0	1.5	0.5	-000.1571348
0.5	0.5	1.0	1.5	1.0	1.5	0.5	000.1571348
0.5	0.5	1.0	1.5	1.0	1.5	0.5	-000.3142697
0.5	0.5	1.0	1.5	1.0	1.5	0.5	000.3142697
0.5	0.5	1.0	1.5	1.0	1.5	1.5	-000.1686548
0.5	0.5	1.0	1.5	1.0	1.5	1.5	000.5059644
0.5	0.5	1.0	1.5	1.0	1.5	1.5	-000.6285394
0.5	0.5	1.0	1.5	1.0	1.5	1.5	000.6285393
0.5	0.5	1.0	1.5	1.0	1.5	1.5	000.0843274
0.5	0.5	1.0	1.5	1.0	1.5	1.5	-000.2529822
0.5	0.5	1.0	1.5	1.0	2.5	0.5	000.1346870
0.5	0.5	1.0	1.5	1.0	2.5	0.5	-000.3299144
0.5	0.5	1.0	1.5	1.0	2.5	0.5	-000.2309401
0.5	0.5	1.0	1.5	1.0	2.5	0.5	000.1885618

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
0.5	0.5	1.0	1.5	1.0	2.5	1.5	1.0	1.5	1.0	2.0	-000.2529822
0.5	0.5	1.0	1.5	1.0	2.5	1.5	1.0	1.5	3.0	2.0	000.2065591
0.5	0.5	1.0	1.5	1.0	2.5	1.5	2.0	1.5	2.0	3.0	-000.2879729
0.5	0.5	1.0	1.5	1.0	2.5	1.5	2.0	1.5	4.0	3.0	000.7053868
0.5	0.5	1.0	1.5	1.0	2.5	1.5	3.0	1.5	1.0	2.0	-000.8262364
0.5	0.5	1.0	1.5	1.0	2.5	1.5	3.0	1.5	3.0	2.0	000.6746192
0.5	0.5	1.0	1.5	1.0	2.5	1.5	4.0	1.5	2.0	3.0	000.0881734
0.5	0.5	1.0	1.5	1.0	2.5	1.5	4.0	1.5	4.0	3.0	-000.2159797
0.5	0.5	1.0	1.5	1.0	3.5	0.5	3.0	1.5	3.0	4.0	000.1656346
0.5	0.5	1.0	1.5	1.0	3.5	0.5	3.0	1.5	5.0	4.0	-000.3703703
0.5	0.5	1.0	1.5	1.0	3.5	0.5	4.0	1.5	2.0	3.0	-000.2857143
0.5	0.5	1.0	1.5	1.0	3.5	0.5	4.0	1.5	4.0	3.0	000.2129588
0.5	0.5	1.0	1.5	1.0	3.5	1.5	2.0	1.5	2.0	3.0	-000.2159797
0.5	0.5	1.0	1.5	1.0	3.5	1.5	2.0	1.5	4.0	3.0	000.1609817
0.5	0.5	1.0	1.5	1.0	3.5	1.5	3.0	1.5	3.0	4.0	-000.3825168
0.5	0.5	1.0	1.5	1.0	3.5	1.5	3.0	1.5	5.0	4.0	000.8553336
0.5	0.5	1.0	1.5	1.0	3.5	1.5	4.0	1.5	2.0	3.0	-000.9658906
0.5	0.5	1.0	1.5	1.0	3.5	1.5	4.0	1.5	4.0	3.0	000.7199322
0.5	0.5	1.0	1.5	1.0	3.5	1.5	5.0	1.5	3.0	4.0	000.0855334
0.5	0.5	1.0	1.5	1.0	3.5	1.5	5.0	1.5	5.0	4.0	-000.1912584
0.5	0.5	1.0	1.5	1.0	4.5	0.5	4.0	1.5	4.0	5.0	000.1916531
0.5	0.5	1.0	1.5	1.0	4.5	0.5	4.0	1.5	6.0	5.0	-000.4065578
0.5	0.5	1.0	1.5	1.0	4.5	0.5	5.0	1.5	3.0	4.0	-000.3312693
0.5	0.5	1.0	1.5	1.0	4.5	0.5	5.0	1.5	5.0	4.0	000.2342427
0.5	0.5	1.0	1.5	1.0	4.5	1.5	3.0	1.5	3.0	4.0	-000.1912585
0.5	0.5	1.0	1.5	1.0	4.5	1.5	3.0	1.5	5.0	4.0	000.1352401
0.5	0.5	1.0	1.5	1.0	4.5	1.5	4.0	1.5	4.0	5.0	-000.4622848
0.5	0.5	1.0	1.5	1.0	4.5	1.5	4.0	1.5	6.0	5.0	000.9806542

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
0.5	0.5	1.0	1.5	1.0	4.5	1.5	5.0	1.5	3.0	4.0	-001.0819209
0.5	0.5	1.0	1.5	1.0	4.5	1.5	5.0	1.5	5.0	4.0	000.7650336
0.5	0.5	1.0	1.5	1.0	4.5	1.5	6.0	1.5	4.0	5.0	000.0817210
0.5	0.5	1.0	1.5	1.0	4.5	1.5	6.0	1.5	6.0	5.0	-000.1733567
0.5	1.5	1.0	0.5	1.0	0.5	0.5	0.0	0.5	0.0	1.0	-000.3142697
0.5	1.5	1.0	0.5	1.0	0.5	1.5	2.0	0.5	0.0	1.0	-000.4444444
0.5	1.5	1.0	0.5	1.0	1.5	0.5	1.0	0.5	1.0	2.0	-000.4216370
0.5	1.5	1.0	0.5	1.0	1.5	0.5	2.0	0.5	2.0	1.0	000.3142697
0.5	1.5	1.0	0.5	1.0	1.5	1.5	0.0	0.5	2.0	1.0	-000.7856742
0.5	1.5	1.0	0.5	1.0	1.5	1.5	1.0	0.5	1.0	2.0	-000.0942809
0.5	1.5	1.0	0.5	1.0	1.5	1.5	2.0	0.5	2.0	1.0	-000.1571348
0.5	1.5	1.0	0.5	1.0	1.5	1.5	3.0	0.5	1.0	2.0	-000.6599663
0.5	1.5	1.0	0.5	1.0	2.5	0.5	2.0	0.5	2.0	3.0	-000.5039526
0.5	1.5	1.0	0.5	1.0	2.5	0.5	3.0	0.5	3.0	2.0	000.4216370
0.5	1.5	1.0	0.5	1.0	2.5	1.5	1.0	0.5	3.0	2.0	-000.9237604
0.5	1.5	1.0	0.5	1.0	2.5	1.5	2.0	0.5	2.0	3.0	-000.1346870
0.5	1.5	1.0	0.5	1.0	2.5	1.5	3.0	0.5	3.0	2.0	-000.1885619
0.5	1.5	1.0	0.5	1.0	2.5	1.5	4.0	0.5	2.0	3.0	-000.8247861
0.5	1.5	1.0	0.5	1.0	3.5	0.5	3.0	0.5	3.0	4.0	-000.5737753
0.5	1.5	1.0	0.5	1.0	3.5	0.5	4.0	0.5	4.0	3.0	000.5039526
0.5	1.5	1.0	0.5	1.0	3.5	1.5	2.0	0.5	4.0	3.0	-001.0476189
0.5	1.5	1.0	0.5	1.0	3.5	1.5	3.0	0.5	3.0	4.0	-000.1656346
0.5	1.5	1.0	0.5	1.0	3.5	1.5	4.0	0.5	4.0	3.0	-000.2129587
0.5	1.5	1.0	0.5	1.0	3.5	1.5	5.0	0.5	3.0	4.0	-000.9629629
0.5	1.5	1.0	0.5	1.0	4.5	0.5	4.0	0.5	4.0	5.0	-000.6356416
0.5	1.5	1.0	0.5	1.0	4.5	0.5	5.0	0.5	5.0	4.0	000.5737752
0.5	1.5	1.0	0.5	1.0	4.5	1.5	3.0	0.5	5.0	4.0	-001.1594427
0.5	1.5	1.0	0.5	1.0	4.5	1.5	4.0	0.5	4.0	5.0	-000.1916531

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
0.5	1.5	1.0	0.5	1.0	4.5	1.5	5.0	0.5	5.0	4.0	-000.2342427
0.5	1.5	1.0	0.5	1.0	4.5	1.5	6.0	0.5	4.0	5.0	-001.0841540
0.5	1.5	1.0	1.5	1.0	0.5	0.5	0.0	1.5	2.0	1.0	-000.3142697
0.5	1.5	1.0	1.5	1.0	0.5	1.5	2.0	1.5	2.0	1.0	-000.4444444
0.5	1.5	1.0	1.5	1.0	1.5	0.5	1.0	1.5	1.0	2.0	000.1333333
0.5	1.5	1.0	1.5	1.0	1.5	0.5	1.0	1.5	3.0	2.0	-000.4000000
0.5	1.5	1.0	1.5	1.0	1.5	0.5	2.0	1.5	0.0	1.0	-000.2222222
0.5	1.5	1.0	1.5	1.0	1.5	0.5	2.0	1.5	2.0	1.0	000.2222222
0.5	1.5	1.0	1.5	1.0	1.5	1.5	0.0	1.5	0.0	1.0	000.5555556
0.5	1.5	1.0	1.5	1.0	1.5	1.5	0.0	1.5	2.0	1.0	-000.5555556
0.5	1.5	1.0	1.5	1.0	1.5	1.5	1.0	1.5	1.0	2.0	000.0298142
0.5	1.5	1.0	1.5	1.0	1.5	1.5	1.0	1.5	3.0	2.0	-000.0894427
0.5	1.5	1.0	1.5	1.0	1.5	1.5	2.0	1.5	0.0	1.0	000.1111111
0.5	1.5	1.0	1.5	1.0	1.5	1.5	2.0	1.5	2.0	1.0	-000.1111111
0.5	1.5	1.0	1.5	1.0	1.5	1.5	3.0	1.5	1.0	2.0	000.2086996
0.5	1.5	1.0	1.5	1.0	1.5	1.5	3.0	1.5	3.0	2.0	-000.6260990
0.5	1.5	1.0	1.5	1.0	2.5	0.5	2.0	1.5	2.0	3.0	000.1904762
0.5	1.5	1.0	1.5	1.0	2.5	0.5	2.0	1.5	4.0	3.0	-000.4665695
0.5	1.5	1.0	1.5	1.0	2.5	0.5	3.0	1.5	1.0	2.0	-000.3265986
0.5	1.5	1.0	1.5	1.0	2.5	0.5	3.0	1.5	3.0	2.0	000.2666666
0.5	1.5	1.0	1.5	1.0	2.5	1.5	1.0	1.5	1.0	2.0	000.7155417
0.5	1.5	1.0	1.5	1.0	2.5	1.5	1.0	1.5	3.0	2.0	-000.5842374
0.5	1.5	1.0	1.5	1.0	2.5	1.5	2.0	1.5	2.0	3.0	000.0509069
0.5	1.5	1.0	1.5	1.0	2.5	1.5	2.0	1.5	4.0	3.0	-000.1246958
0.5	1.5	1.0	1.5	1.0	2.5	1.5	3.0	1.5	1.0	2.0	000.1460593
0.5	1.5	1.0	1.5	1.0	2.5	1.5	3.0	1.5	3.0	2.0	-000.1192570
0.5	1.5	1.0	1.5	1.0	2.5	1.5	4.0	1.5	2.0	3.0	000.3117399
0.5	1.5	1.0	1.5	1.0	2.5	1.5	4.0	1.5	4.0	3.0	-000.7636034

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
0.5	1.5	1.0	1.5	1.0	3.5	0.5	3.0	1.5	3.0	4.0	000.2342428
0.5	1.5	1.0	1.5	1.0	3.5	0.5	3.0	1.5	5.0	4.0	-000.5237828
0.5	1.5	1.0	1.5	1.0	3.5	0.5	4.0	1.5	2.0	3.0	-000.4040611
0.5	1.5	1.0	1.5	1.0	3.5	0.5	4.0	1.5	4.0	3.0	000.3011693
0.5	1.5	1.0	1.5	1.0	3.5	1.5	2.0	1.5	2.0	3.0	000.8399638
0.5	1.5	1.0	1.5	1.0	3.5	1.5	2.0	1.5	4.0	3.0	-000.6260721
0.5	1.5	1.0	1.5	1.0	3.5	1.5	3.0	1.5	3.0	4.0	000.0676200
0.5	1.5	1.0	1.5	1.0	3.5	1.5	3.0	1.5	5.0	4.0	-000.1512029
0.5	1.5	1.0	1.5	1.0	3.5	1.5	4.0	1.5	2.0	3.0	000.1707469
0.5	1.5	1.0	1.5	1.0	3.5	1.5	4.0	1.5	4.0	3.0	-000.1272672
0.5	1.5	1.0	1.5	1.0	3.5	1.5	5.0	1.5	3.0	4.0	000.3931280
0.5	1.5	1.0	1.5	1.0	3.5	1.5	5.0	1.5	5.0	4.0	-000.8790609
0.5	1.5	1.0	1.5	1.0	4.5	0.5	4.0	1.5	4.0	5.0	000.2710385
0.5	1.5	1.0	1.5	1.0	4.5	0.5	4.0	1.5	6.0	5.0	-000.5749595
0.5	1.5	1.0	1.5	1.0	4.5	0.5	5.0	1.5	3.0	4.0	-000.4684855
0.5	1.5	1.0	1.5	1.0	4.5	0.5	5.0	1.5	5.0	4.0	000.3312692
0.5	1.5	1.0	1.5	1.0	4.5	1.5	3.0	1.5	3.0	4.0	000.9466810
0.5	1.5	1.0	1.5	1.0	4.5	1.5	3.0	1.5	5.0	4.0	-000.6694046
0.5	1.5	1.0	1.5	1.0	4.5	1.5	4.0	1.5	4.0	5.0	000.0817210
0.5	1.5	1.0	1.5	1.0	4.5	1.5	4.0	1.5	6.0	5.0	-000.1733568
0.5	1.5	1.0	1.5	1.0	4.5	1.5	5.0	1.5	3.0	4.0	000.1912584
0.5	1.5	1.0	1.5	1.0	4.5	1.5	5.0	1.5	5.0	4.0	-000.1352401
0.5	1.5	1.0	1.5	1.0	4.5	1.5	6.0	1.5	4.0	5.0	000.4622848
0.5	1.5	1.0	1.5	1.0	4.5	1.5	6.0	1.5	6.0	5.0	-000.9806541
0.5	1.5	2.0	0.5	0.0	0.5	0.5	1.0	0.5	1.0	1.0	000.3142697
0.5	1.5	2.0	0.5	0.0	0.5	1.5	1.0	0.5	1.0	1.0	000.4444444
0.5	1.5	2.0	0.5	0.0	1.5	0.5	1.0	0.5	1.0	1.0	-000.3142697
0.5	1.5	2.0	0.5	0.0	1.5	0.5	2.0	0.5	2.0	2.0	000.4216370

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
0.5	1.5	2.0	0.5	0.0	1.5	1.5	0.0	0.5	2.0	2.0	-000.6324555
0.5	1.5	2.0	0.5	0.0	1.5	1.5	1.0	0.5	1.0	1.0	-000.4919099
0.5	1.5	2.0	0.5	0.0	1.5	1.5	2.0	0.5	2.0	2.0	000.2108185
0.5	1.5	2.0	0.5	0.0	1.5	1.5	3.0	0.5	1.0	1.0	-000.6324555
0.5	1.5	2.0	0.5	0.0	2.5	0.5	2.0	0.5	2.0	2.0	-000.4216370
0.5	1.5	2.0	0.5	0.0	2.5	0.5	3.0	0.5	3.0	3.0	000.5039526
0.5	1.5	2.0	0.5	0.0	2.5	1.5	1.0	0.5	3.0	3.0	-000.8280786
0.5	1.5	2.0	0.5	0.0	2.5	1.5	2.0	0.5	2.0	2.0	-000.4507489
0.5	1.5	2.0	0.5	0.0	2.5	1.5	3.0	0.5	3.0	3.0	000.1126872
0.5	1.5	2.0	0.5	0.0	2.5	1.5	4.0	0.5	2.0	2.0	-000.8280787
0.5	1.5	2.0	0.5	0.0	3.5	0.5	3.0	0.5	3.0	3.0	-000.5039527
0.5	1.5	2.0	0.5	0.0	3.5	0.5	4.0	0.5	4.0	4.0	000.5737753
0.5	1.5	2.0	0.5	0.0	3.5	1.5	2.0	0.5	4.0	4.0	-000.9759000
0.5	1.5	2.0	0.5	0.0	3.5	1.5	3.0	0.5	3.0	3.0	-000.4364358
0.5	1.5	2.0	0.5	0.0	3.5	1.5	4.0	0.5	4.0	4.0	000.0484927
0.5	1.5	2.0	0.5	0.0	3.5	1.5	5.0	0.5	3.0	3.0	-000.9759001
0.5	1.5	2.0	0.5	0.0	4.5	0.5	4.0	0.5	4.0	4.0	-000.5737753
0.5	1.5	2.0	0.5	0.0	4.5	0.5	5.0	0.5	5.0	5.0	000.6356418
0.5	1.5	2.0	0.5	0.0	4.5	1.5	3.0	0.5	5.0	5.0	-001.1009637
0.5	1.5	2.0	0.5	0.0	4.5	1.5	4.0	0.5	4.0	4.0	-000.4324993
0.5	1.5	2.0	0.5	0.0	4.5	1.5	5.0	0.5	5.0	5.0	000.0000000
0.5	1.5	2.0	0.5	0.0	4.5	1.5	6.0	0.5	4.0	4.0	-001.1009637
0.5	1.5	2.0	1.5	2.0	0.5	0.5	1.0	1.5	1.0	1.0	000.3142697
0.5	1.5	2.0	1.5	2.0	0.5	1.5	1.0	1.5	1.0	1.0	000.4444444
0.5	1.5	2.0	1.5	2.0	1.5	0.5	1.0	1.5	1.0	1.0	000.0993808
0.5	1.5	2.0	1.5	2.0	1.5	0.5	1.0	1.5	3.0	1.0	-000.2981424
0.5	1.5	2.0	1.5	2.0	1.5	0.5	2.0	1.5	0.0	2.0	-000.2981424
0.5	1.5	2.0	1.5	2.0	1.5	0.5	2.0	1.5	2.0	2.0	000.2981424

J_1 , S''	ℓ'_1 , S	ℓ_1 ; J_2 , S'	ℓ'_2 , S	ℓ_2 ; L	H
0.5	1.5	2.0	1.5	2.0	000.4472136
0.5	1.5	2.0	1.5	2.0	-000.4472136
0.5	1.5	2.0	1.5	1.0	000.1555555
0.5	1.5	2.0	1.5	1.0	-000.4666666
0.5	1.5	2.0	1.5	1.0	-000.1490712
0.5	1.5	2.0	1.5	2.0	000.1490712
0.5	1.5	2.0	1.5	1.0	000.1999999
0.5	1.5	2.0	1.5	1.0	-000.6000000
0.5	1.5	2.0	1.5	2.0	000.1593638
0.5	1.5	2.0	1.5	2.0	-000.3903600
0.5	1.5	2.0	1.5	1.0	-000.3903600
0.5	1.5	2.0	1.5	3.0	000.3187276
0.5	1.5	2.0	1.5	1.0	000.6414270
0.5	1.5	2.0	1.5	3.0	-000.5237229
0.5	1.5	2.0	1.5	2.0	000.1703670
0.5	1.5	2.0	1.5	2.0	-000.4173123
0.5	1.5	2.0	1.5	1.0	-000.0872872
0.5	1.5	2.0	1.5	3.0	000.0712697
0.5	1.5	2.0	1.5	2.0	000.3129843
0.5	1.5	2.0	1.5	2.0	-000.7666519
0.5	1.5	2.0	1.5	3.0	000.2057378
0.5	1.5	2.0	1.5	3.0	-000.4600437
0.5	1.5	2.0	1.5	4.0	-000.4600437
0.5	1.5	2.0	1.5	4.0	000.3428963
0.5	1.5	2.0	1.5	2.0	000.7824606
0.5	1.5	2.0	1.5	4.0	-000.5832117
0.5	1.5	2.0	1.5	3.0	000.1781741
0.5	1.5	2.0	1.5	3.0	-000.3984095

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
0.5	1.5	2.0 1.5 2.0 3.5 1.5 4.0 1.5 2.0 4.0	-000.0388808		
0.5	1.5	2.0 1.5 2.0 3.5 1.5 4.0 1.5 4.0 4.0	000.0289800		
0.5	1.5	2.0 1.5 2.0 3.5 1.5 5.0 1.5 3.0 3.0	000.3984095		
0.5	1.5	2.0 1.5 2.0 3.5 1.5 5.0 1.5 5.0 3.0	-000.8908709		
0.5	1.5	2.0 1.5 2.0 4.5 0.5 4.0 1.5 4.0 4.0	000.2446584		
0.5	1.5	2.0 1.5 2.0 4.5 0.5 4.0 1.5 6.0 4.0	-000.5189992		
0.5	1.5	2.0 1.5 2.0 4.5 0.5 5.0 1.5 3.0 5.0	-000.5189991		
0.5	1.5	2.0 1.5 2.0 4.5 0.5 5.0 1.5 5.0 5.0	000.3669880		
0.5	1.5	2.0 1.5 2.0 4.5 1.5 3.0 1.5 3.0 5.0	000.8989330		
0.5	1.5	2.0 1.5 2.0 4.5 1.5 3.0 1.5 5.0 5.0	-000.6356416		
0.5	1.5	2.0 1.5 2.0 4.5 1.5 4.0 1.5 4.0 4.0	000.1844183		
0.5	1.5	2.0 1.5 2.0 4.5 1.5 4.0 1.5 6.0 4.0	-000.3912102		
0.5	1.5	2.0 1.5 2.0 4.5 1.5 5.0 1.5 3.0 5.0	-000.0000000		
0.5	1.5	2.0 1.5 2.0 4.5 1.5 5.0 1.5 5.0 5.0	-000.0000000		
0.5	1.5	2.0 1.5 2.0 4.5 1.5 6.0 1.5 4.0 4.0	000.4694523		
0.5	1.5	2.0 1.5 2.0 4.5 1.5 6.0 1.5 6.0 4.0	-000.9958588		
1.5	0.5	1.0 0.5 1.0 0.5 0.5 0.5 0.0 0.5 0.0 1.0	000.2222222		
1.5	0.5	1.0 0.5 1.0 0.5 0.5 0.5 1.0 0.5 1.0 2.0	000.2981424		
1.5	0.5	1.0 0.5 1.0 0.5 0.5 1.5 1.0 0.5 1.0 2.0	000.4216370		
1.5	0.5	1.0 0.5 1.0 0.5 0.5 1.5 2.0 0.5 0.0 1.0	000.3142697		
1.5	0.5	1.0 0.5 1.0 0.5 1.5 0.5 1.0 0.5 1.0 2.0	000.0000000		
1.5	0.5	1.0 0.5 1.0 0.5 1.5 0.5 2.0 0.5 2.0 1.0	000.1777778		
1.5	0.5	1.0 0.5 1.0 0.5 1.5 0.5 2.0 0.5 2.0 3.0	000.4276180		
1.5	0.5	1.0 0.5 1.0 0.5 1.5 1.5 0.0 0.5 2.0 1.0	-000.4444444		
1.5	0.5	1.0 0.5 1.0 0.5 1.5 1.5 1.0 0.5 1.0 2.0	000.8000000		
1.5	0.5	1.0 0.5 1.0 0.5 1.5 1.5 2.0 0.5 2.0 1.0	-000.0888889		
1.5	0.5	1.0 0.5 1.0 0.5 1.5 1.5 2.0 0.5 2.0 3.0	000.8552359		
1.5	0.5	1.0 0.5 1.0 0.5 1.5 1.5 3.0 0.5 1.0 2.0	000.2666666		

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
1.5	0.5	1.0	0.5	1.0	2.5	0.5	2.0	0.5	2.0	1.0	-000.4000000
1.5	0.5	1.0	0.5	1.0	2.5	0.5	2.0	0.5	2.0	3.0	-000.0712696
1.5	0.5	1.0	0.5	1.0	2.5	0.5	3.0	0.5	3.0	2.0	000.2129589
1.5	0.5	1.0	0.5	1.0	2.5	0.5	3.0	0.5	3.0	4.0	000.5216405
1.5	0.5	1.0	0.5	1.0	2.5	1.5	1.0	0.5	3.0	2.0	-000.3265985
1.5	0.5	1.0	0.5	1.0	2.5	1.5	2.0	0.5	2.0	1.0	001.4966629
1.5	0.5	1.0	0.5	1.0	2.5	1.5	2.0	0.5	2.0	3.0	000.8380952
1.5	0.5	1.0	0.5	1.0	2.5	1.5	3.0	0.5	3.0	2.0	000.0761905
1.5	0.5	1.0	0.5	1.0	2.5	1.5	3.0	0.5	3.0	4.0	001.1664236
1.5	0.5	1.0	0.5	1.0	2.5	1.5	4.0	0.5	2.0	3.0	000.2332847
1.5	0.5	1.0	0.5	1.0	3.5	0.5	3.0	0.5	3.0	2.0	-000.5111013
1.5	0.5	1.0	0.5	1.0	3.5	0.5	3.0	0.5	3.0	4.0	-000.1159201
1.5	0.5	1.0	0.5	1.0	3.5	0.5	4.0	0.5	4.0	3.0	000.2375654
1.5	0.5	1.0	0.5	1.0	3.5	0.5	4.0	0.5	4.0	5.0	000.5992887
1.5	0.5	1.0	0.5	1.0	3.5	1.5	2.0	0.5	4.0	3.0	-000.2693738
1.5	0.5	1.0	0.5	1.0	3.5	1.5	3.0	0.5	3.0	2.0	001.7705066
1.5	0.5	1.0	0.5	1.0	3.5	1.5	3.0	0.5	3.0	4.0	000.8700446
1.5	0.5	1.0	0.5	1.0	3.5	1.5	4.0	0.5	4.0	3.0	000.2007794
1.5	0.5	1.0	0.5	1.0	3.5	1.5	4.0	0.5	4.0	5.0	001.4181761
1.5	0.5	1.0	0.5	1.0	3.5	1.5	5.0	0.5	3.0	4.0	000.2095130
1.5	0.5	1.0	0.5	1.0	4.5	0.5	4.0	0.5	4.0	3.0	-000.5939138
1.5	0.5	1.0	0.5	1.0	4.5	0.5	4.0	0.5	4.0	5.0	-000.1498221
1.5	0.5	1.0	0.5	1.0	4.5	0.5	5.0	0.5	5.0	4.0	000.2581857
1.5	0.5	1.0	0.5	1.0	4.5	0.5	5.0	0.5	5.0	6.0	000.6670903
1.5	0.5	1.0	0.5	1.0	4.5	1.5	3.0	0.5	5.0	4.0	-000.2342426
1.5	0.5	1.0	0.5	1.0	4.5	1.5	4.0	0.5	4.0	3.0	001.9697893
1.5	0.5	1.0	0.5	1.0	4.5	1.5	4.0	0.5	4.0	5.0	000.9034618
1.5	0.5	1.0	0.5	1.0	4.5	1.5	5.0	0.5	5.0	4.0	000.3011539

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
1.5	0.5	1.0	0.5	1.0	4.5	1.5	001.6340309
1.5	0.5	1.0	0.5	1.0	4.5	1.5	000.1916529
1.5	0.5	1.0	1.5	1.0	0.5	0.5	-000.0702728
1.5	0.5	1.0	1.5	1.0	0.5	0.5	-000.0942809
1.5	0.5	1.0	1.5	1.0	0.5	1.5	-000.1333333
1.5	0.5	1.0	1.5	1.0	0.5	1.5	-000.0993808
1.5	0.5	1.0	1.5	1.0	1.5	0.5	000.0000000
1.5	0.5	1.0	1.5	1.0	1.5	0.5	000.0000000
1.5	0.5	1.0	1.5	1.0	1.5	0.5	000.3975232
1.5	0.5	1.0	1.5	1.0	1.5	0.5	000.3180185
1.5	0.5	1.0	1.5	1.0	1.5	0.5	-000.1912366
1.5	0.5	1.0	1.5	1.0	1.5	1.5	-000.9938080
1.5	0.5	1.0	1.5	1.0	1.5	1.5	-000.7950464
1.5	0.5	1.0	1.5	1.0	1.5	1.5	-000.6400000
1.5	0.5	1.0	1.5	1.0	1.5	1.5	-000.4800000
1.5	0.5	1.0	1.5	1.0	1.5	1.5	-000.1987616
1.5	0.5	1.0	1.5	1.0	1.5	1.5	-000.1590092
1.5	0.5	1.0	1.5	1.0	1.5	1.5	-000.3824731
1.5	0.5	1.0	1.5	1.0	1.5	1.5	-000.2133333
1.5	0.5	1.0	1.5	1.0	1.5	1.5	-000.1599999
1.5	0.5	1.0	1.5	1.0	2.5	0.5	-000.3346640
1.5	0.5	1.0	1.5	1.0	2.5	0.5	000.0681469
1.5	0.5	1.0	1.5	1.0	2.5	0.5	000.0521640
1.5	0.5	1.0	1.5	1.0	2.5	0.5	000.3651483
1.5	0.5	1.0	1.5	1.0	2.5	0.5	000.3407342
1.5	0.5	1.0	1.5	1.0	2.5	0.5	-000.2608202
1.5	0.5	1.0	1.5	1.0	2.5	1.5	-000.5600000
1.5	0.5	1.0	1.5	1.0	2.5	1.5	-000.5225577

J_1 , S"	ℓ'_1 , S	ℓ_1 ;	J_2 , S'	ℓ'_2 , S	ℓ_2 ;	L	H
1.5	0.5	1.0	1.5	1.0	2.5	1.5	001.2521980
1.5	0.5	1.0	1.5	1.0	2.5	1.5	-000.8013723
1.5	0.5	1.0	1.5	1.0	2.5	1.5	-000.6134229
1.5	0.5	1.0	1.5	1.0	2.5	1.5	000.1306394
1.5	0.5	1.0	1.5	1.0	2.5	1.5	000.1219047
1.5	0.5	1.0	1.5	1.0	2.5	1.5	-000.5832117
1.5	0.5	1.0	1.5	1.0	2.5	1.5	-000.2230628
1.5	0.5	1.0	1.5	1.0	2.5	1.5	-000.1707469
1.5	0.5	1.0	1.5	1.0	3.5	0.5	-000.3958974
1.5	0.5	1.0	1.5	1.0	3.5	0.5	000.1197218
1.5	0.5	1.0	1.5	1.0	3.5	0.5	000.0936971
1.5	0.5	1.0	1.5	1.0	3.5	0.5	000.3614031
1.5	0.5	1.0	1.5	1.0	3.5	0.5	000.3591653
1.5	0.5	1.0	1.5	1.0	3.5	0.5	-000.3171138
1.5	0.5	1.0	1.5	1.0	3.5	1.5	-000.4097925
1.5	0.5	1.0	1.5	1.0	3.5	1.5	-000.4072551
1.5	0.5	1.0	1.5	1.0	3.5	1.5	001.3714285
1.5	0.5	1.0	1.5	1.0	3.5	1.5	-000.8985781
1.5	0.5	1.0	1.5	1.0	3.5	1.5	-000.7032487
1.5	0.5	1.0	1.5	1.0	3.5	1.5	000.3054414
1.5	0.5	1.0	1.5	1.0	3.5	1.5	000.3035501
1.5	0.5	1.0	1.5	1.0	3.5	1.5	-000.7504279
1.5	0.5	1.0	1.5	1.0	3.5	1.5	-000.2163842
1.5	0.5	1.0	1.5	1.0	3.5	1.5	-000.1693476
1.5	0.5	1.0	1.5	1.0	4.5	0.5	-000.4404583
1.5	0.5	1.0	1.5	1.0	4.5	0.5	000.1616162
1.5	0.5	1.0	1.5	1.0	4.5	0.5	000.1285647
1.5	0.5	1.0	1.5	1.0	4.5	0.5	000.3666479

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
1.5	0.5	1.0 1.5 1.0 4.5 0.5 5.0 1.5 5.0 4.0	000.3771042		
1.5	0.5	1.0 1.5 1.0 4.5 0.5 5.0 1.5 5.0 6.0	-000.3653802		
1.5	0.5	1.0 1.5 1.0 4.5 1.5 3.0 1.5 3.0 4.0	-000.3326466		
1.5	0.5	1.0 1.5 1.0 4.5 1.5 3.0 1.5 5.0 4.0	-000.3421332		
1.5	0.5	1.0 1.5 1.0 4.5 1.5 4.0 1.5 4.0 3.0	001.4608348		
1.5	0.5	1.0 1.5 1.0 4.5 1.5 4.0 1.5 4.0 5.0	-000.9745820		
1.5	0.5	1.0 1.5 1.0 4.5 1.5 4.0 1.5 6.0 5.0	-000.7752753		
1.5	0.5	1.0 1.5 1.0 4.5 1.5 5.0 1.5 3.0 4.0	000.4276667		
1.5	0.5	1.0 1.5 1.0 4.5 1.5 5.0 1.5 5.0 4.0	000.4398632		
1.5	0.5	1.0 1.5 1.0 4.5 1.5 5.0 1.5 5.0 6.0	-000.8949955		
1.5	0.5	1.0 1.5 1.0 4.5 1.5 6.0 1.5 4.0 5.0	-000.2067397		
1.5	0.5	1.0 1.5 1.0 4.5 1.5 6.0 1.5 6.0 5.0	-000.1644605		
1.5	0.5	1.0 1.5 3.0 0.5 0.5 0.0 1.5 2.0 1.0	000.2108185		
1.5	0.5	1.0 1.5 3.0 0.5 0.5 1.0 1.5 1.0 2.0	000.2828427		
1.5	0.5	1.0 1.5 3.0 0.5 1.5 1.0 1.5 1.0 2.0	000.4000000		
1.5	0.5	1.0 1.5 3.0 0.5 1.5 2.0 1.5 2.0 1.0	000.2981424		
1.5	0.5	1.0 1.5 3.0 1.5 0.5 1.0 1.5 1.0 2.0	000.0000000		
1.5	0.5	1.0 1.5 3.0 1.5 0.5 1.0 1.5 3.0 2.0	000.0000000		
1.5	0.5	1.0 1.5 3.0 1.5 0.5 2.0 1.5 0.0 3.0	-000.3187276		
1.5	0.5	1.0 1.5 3.0 1.5 0.5 2.0 1.5 2.0 1.0	000.2385139		
1.5	0.5	1.0 1.5 3.0 1.5 0.5 2.0 1.5 2.0 3.0	000.2549821		
1.5	0.5	1.0 1.5 3.0 1.5 1.5 0.0 1.5 2.0 1.0	-000.5962848		
1.5	0.5	1.0 1.5 3.0 1.5 1.5 1.0 1.5 1.0 2.0	-000.4800000		
1.5	0.5	1.0 1.5 3.0 1.5 1.5 1.0 1.5 3.0 2.0	000.6400000		
1.5	0.5	1.0 1.5 3.0 1.5 1.5 2.0 1.5 0.0 3.0	-000.6374553		
1.5	0.5	1.0 1.5 3.0 1.5 1.5 2.0 1.5 2.0 1.0	-000.1192569		
1.5	0.5	1.0 1.5 3.0 1.5 1.5 2.0 1.5 2.0 3.0	000.5099642		
1.5	0.5	1.0 1.5 3.0 1.5 1.5 3.0 1.5 1.0 2.0	-000.1599999		

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
1.5	0.5	1.0	1.5	3.0	1.5	1.5	000.2133332
1.5	0.5	1.0	1.5	3.0	2.5	0.5	000.0478091
1.5	0.5	1.0	1.5	3.0	2.5	0.5	000.0511101
1.5	0.5	1.0	1.5	3.0	2.5	0.5	-000.3903600
1.5	0.5	1.0	1.5	3.0	2.5	0.5	-000.0521640
1.5	0.5	1.0	1.5	3.0	2.5	0.5	-000.0521640
1.5	0.5	1.0	1.5	3.0	2.5	0.5	-000.4259177
1.5	0.5	1.0	1.5	3.0	2.5	0.5	000.2555507
1.5	0.5	1.0	1.5	3.0	2.5	0.5	000.2608201
1.5	0.5	1.0	1.5	3.0	2.5	1.5	000.0800000
1.5	0.5	1.0	1.5	3.0	2.5	1.5	-000.3919184
1.5	0.5	1.0	1.5	3.0	2.5	1.5	-000.1788854
1.5	0.5	1.0	1.5	3.0	2.5	1.5	-000.6010291
1.5	0.5	1.0	1.5	3.0	2.5	1.5	001.4605935
1.5	0.5	1.0	1.5	3.0	2.5	1.5	000.6134229
1.5	0.5	1.0	1.5	3.0	2.5	1.5	-000.0186627
1.5	0.5	1.0	1.5	3.0	2.5	1.5	-000.9523808
1.5	0.5	1.0	1.5	3.0	2.5	1.5	000.0914285
1.5	0.5	1.0	1.5	3.0	2.5	1.5	000.5832117
1.5	0.5	1.0	1.5	3.0	2.5	1.5	-000.1672971
1.5	0.5	1.0	1.5	3.0	2.5	1.5	000.1707469
1.5	0.5	1.0	1.5	3.0	3.5	0.5	000.0879771
1.5	0.5	1.0	1.5	3.0	3.5	0.5	000.0897914
1.5	0.5	1.0	1.5	3.0	3.5	0.5	-000.4918073
1.5	0.5	1.0	1.5	3.0	3.5	0.5	-000.0803117
1.5	0.5	1.0	1.5	3.0	3.5	0.5	-000.0803116
1.5	0.5	1.0	1.5	3.0	3.5	0.5	-000.5064914
1.5	0.5	1.0	1.5	3.0	3.5	0.5	000.2693741

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
1.5	0.5	1.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	5.0	000.2718117
1.5	0.5	1.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	3.0	000.0910649
1.5	0.5	1.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	3.0	-000.3054413
1.5	0.5	1.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	2.0	-000.3047617
1.5	0.5	1.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	4.0	-000.6739336
1.5	0.5	1.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	2.0	001.7036708
1.5	0.5	1.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	4.0	000.6027843
1.5	0.5	1.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	3.0	-000.0678758
1.5	0.5	1.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	5.0	-001.1985774
1.5	0.5	1.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	3.0	000.2276625
1.5	0.5	1.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	5.0	000.6432239
1.5	0.5	1.0	1.5	3.0	3.5	1.5	5.0	1.5	3.0	4.0	-000.1622881
1.5	0.5	1.0	1.5	3.0	3.5	1.5	5.0	1.5	5.0	4.0	000.1451549
1.5	0.5	1.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	3.0	000.1201249
1.5	0.5	1.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	5.0	000.1212121
1.5	0.5	1.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	3.0	-000.5662747
1.5	0.5	1.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	5.0	-000.0999948
1.5	0.5	1.0	1.5	3.0	4.5	0.5	5.0	1.5	3.0	4.0	-000.0999945
1.5	0.5	1.0	1.5	3.0	4.5	0.5	5.0	1.5	3.0	6.0	-000.5741399
1.5	0.5	1.0	1.5	3.0	4.5	0.5	5.0	1.5	5.0	4.0	000.2828278
1.5	0.5	1.0	1.5	3.0	4.5	0.5	5.0	1.5	5.0	6.0	000.2841844
1.5	0.5	1.0	1.5	3.0	4.5	1.5	3.0	1.5	3.0	4.0	000.0907217
1.5	0.5	1.0	1.5	3.0	4.5	1.5	3.0	1.5	5.0	4.0	-000.2566001
1.5	0.5	1.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	3.0	-000.3984094
1.5	0.5	1.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	5.0	-000.7309363
1.5	0.5	1.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	3.0	001.8781201
1.5	0.5	1.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	5.0	000.6029917
1.5	0.5	1.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	4.0	-000.1166364

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
1.5	0.5	1.0 1.5 3.0 4.5	1.5 5.0	1.5 3.0 6.0	-001.4063500
1.5	0.5	1.0 1.5 3.0 4.5	1.5 5.0	1.5 5.0 4.0	000.3298970
1.5	0.5	1.0 1.5 3.0 4.5	1.5 5.0	1.5 5.0 6.0	000.6961077
1.5	0.5	1.0 1.5 3.0 4.5	1.5 6.0	1.5 4.0 5.0	-000.1550549
1.5	0.5	1.0 1.5 3.0 4.5	1.5 6.0	1.5 6.0 5.0	000.1279139
1.5	0.5	2.0 0.5 2.0 0.5	0.5 0.0	0.5 0.0 2.0	-000.2981424
1.5	0.5	2.0 0.5 2.0 0.5	0.5 1.0	0.5 1.0 1.0	-000.2222222
1.5	0.5	2.0 0.5 2.0 0.5	1.5 1.0	0.5 1.0 1.0	-000.3142697
1.5	0.5	2.0 0.5 2.0 0.5	1.5 2.0	0.5 0.0 2.0	-000.4216370
1.5	0.5	2.0 0.5 2.0 1.5	0.5 1.0	0.5 1.0 1.0	-000.1777778
1.5	0.5	2.0 0.5 2.0 1.5	0.5 1.0	0.5 1.0 3.0	-000.4276180
1.5	0.5	2.0 0.5 2.0 1.5	0.5 2.0	0.5 2.0 2.0	000.0000000
1.5	0.5	2.0 0.5 2.0 1.5	1.5 0.0	0.5 2.0 2.0	000.5962847
1.5	0.5	2.0 0.5 2.0 1.5	1.5 1.0	0.5 1.0 1.0	-000.2782662
1.5	0.5	2.0 0.5 2.0 1.5	1.5 1.0	0.5 1.0 3.0	000.7649463
1.5	0.5	2.0 0.5 2.0 1.5	1.5 2.0	0.5 2.0 2.0	000.5962847
1.5	0.5	2.0 0.5 2.0 1.5	1.5 3.0	0.5 1.0 1.0	-000.3577709
1.5	0.5	2.0 0.5 2.0 1.5	1.5 3.0	0.5 1.0 3.0	-000.3824731
1.5	0.5	2.0 0.5 2.0 2.5	0.5 2.0	0.5 2.0 2.0	-000.2129589
1.5	0.5	2.0 0.5 2.0 2.5	0.5 2.0	0.5 2.0 4.0	-000.5216405
1.5	0.5	2.0 0.5 2.0 2.5	0.5 3.0	0.5 3.0 1.0	000.4000000
1.5	0.5	2.0 0.5 2.0 2.5	0.5 3.0	0.5 3.0 3.0	000.0712697
1.5	0.5	2.0 0.5 2.0 2.5	1.5 1.0	0.5 3.0 1.0	000.4381781
1.5	0.5	2.0 0.5 2.0 2.5	1.5 1.0	0.5 3.0 3.0	000.4684319
1.5	0.5	2.0 0.5 2.0 2.5	1.5 2.0	0.5 2.0 2.0	-000.0227662
1.5	0.5	2.0 0.5 2.0 2.5	1.5 2.0	0.5 2.0 4.0	001.1153142
1.5	0.5	2.0 0.5 2.0 2.5	1.5 3.0	0.5 3.0 1.0	001.4310835
1.5	0.5	2.0 0.5 2.0 2.5	1.5 3.0	0.5 3.0 3.0	000.7330734

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
1.5	0.5	2.0 0.5 2.0 2.5 1.5 4.0 0.5 2.0 2.0	-000.3345942		
1.5	0.5	2.0 0.5 2.0 2.5 1.5 4.0 0.5 2.0 4.0	-000.3414939		
1.5	0.5	2.0 0.5 2.0 3.5 0.5 3.0 0.5 3.0 3.0	-000.2375654		
1.5	0.5	2.0 0.5 2.0 3.5 0.5 3.0 0.5 3.0 5.0	-000.5992887		
1.5	0.5	2.0 0.5 2.0 3.5 0.5 4.0 0.5 4.0 2.0	000.5111012		
1.5	0.5	2.0 0.5 2.0 3.5 0.5 4.0 0.5 4.0 4.0	000.1159200		
1.5	0.5	2.0 0.5 2.0 3.5 1.5 2.0 0.5 4.0 2.0	000.3863560		
1.5	0.5	2.0 0.5 2.0 3.5 1.5 2.0 0.5 4.0 4.0	000.3943229		
1.5	0.5	2.0 0.5 2.0 3.5 1.5 3.0 0.5 3.0 3.0	000.1371585		
1.5	0.5	2.0 0.5 2.0 3.5 1.5 3.0 0.5 3.0 5.0	001.3839982		
1.5	0.5	2.0 0.5 2.0 3.5 1.5 4.0 0.5 4.0 2.0	001.7278372		
1.5	0.5	2.0 0.5 2.0 3.5 1.5 4.0 0.5 4.0 4.0	000.8033572		
1.5	0.5	2.0 0.5 2.0 3.5 1.5 5.0 0.5 3.0 3.0	-000.3066957		
1.5	0.5	2.0 0.5 2.0 3.5 1.5 5.0 0.5 3.0 5.0	-000.3094715		
1.5	0.5	2.0 0.5 2.0 4.5 0.5 4.0 0.5 4.0 4.0	-000.2581855		
1.5	0.5	2.0 0.5 2.0 4.5 0.5 4.0 0.5 4.0 6.0	-000.6670901		
1.5	0.5	2.0 0.5 2.0 4.5 0.5 5.0 0.5 5.0 3.0	000.5939138		
1.5	0.5	2.0 0.5 2.0 4.5 0.5 5.0 0.5 5.0 5.0	000.1498222		
1.5	0.5	2.0 0.5 2.0 4.5 1.5 3.0 0.5 5.0 3.0	000.3428962		
1.5	0.5	2.0 0.5 2.0 4.5 1.5 3.0 0.5 5.0 5.0	000.3459991		
1.5	0.5	2.0 0.5 2.0 4.5 1.5 4.0 0.5 4.0 4.0	000.2557793		
1.5	0.5	2.0 0.5 2.0 4.5 1.5 4.0 0.5 4.0 6.0	001.6090823		
1.5	0.5	2.0 0.5 2.0 4.5 1.5 5.0 0.5 5.0 3.0	001.9397144		
1.5	0.5	2.0 0.5 2.0 4.5 1.5 5.0 0.5 5.0 5.0	000.8563049		
1.5	0.5	2.0 0.5 2.0 4.5 1.5 6.0 0.5 4.0 4.0	-000.2830904		
1.5	0.5	2.0 0.5 2.0 4.5 1.5 6.0 0.5 4.0 6.0	-000.2844482		
1.5	0.5	2.0 1.5 0.0 0.5 0.5 0.0 1.5 2.0 2.0	000.2108185		
1.5	0.5	2.0 1.5 0.0 0.5 0.5 1.0 1.5 1.0 1.0	000.1571348		

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
1.5	0.5	2.0	1.5	0.0	0.5	1.5	000.2222222
1.5	0.5	2.0	1.5	0.0	0.5	1.5	000.2981424
1.5	0.5	2.0	1.5	0.0	1.5	0.5	-000.3975232
1.5	0.5	2.0	1.5	0.0	1.5	0.5	000.3187276
1.5	0.5	2.0	1.5	0.0	1.5	0.5	-000.0000000
1.5	0.5	2.0	1.5	0.0	1.5	1.5	-000.5962848
1.5	0.5	2.0	1.5	0.0	1.5	1.5	-000.6222222
1.5	0.5	2.0	1.5	0.0	1.5	1.5	-000.5701573
1.5	0.5	2.0	1.5	0.0	1.5	1.5	-000.5962848
1.5	0.5	2.0	1.5	0.0	1.5	1.5	-000.8000000
1.5	0.5	2.0	1.5	0.0	1.5	1.5	000.2850786
1.5	0.5	2.0	1.5	0.0	2.5	0.5	-000.3984095
1.5	0.5	2.0	1.5	0.0	2.5	0.5	000.3984095
1.5	0.5	2.0	1.5	0.0	2.5	0.5	000.3651483
1.5	0.5	2.0	1.5	0.0	2.5	0.5	-000.0796819
1.5	0.5	2.0	1.5	0.0	2.5	1.5	000.4000000
1.5	0.5	2.0	1.5	0.0	2.5	1.5	-000.5237229
1.5	0.5	2.0	1.5	0.0	2.5	1.5	-000.0425918
1.5	0.5	2.0	1.5	0.0	2.5	1.5	-000.8518355
1.5	0.5	2.0	1.5	0.0	2.5	1.5	001.3063946
1.5	0.5	2.0	1.5	0.0	2.5	1.5	-000.8196011
1.5	0.5	2.0	1.5	0.0	2.5	1.5	-000.6259686
1.5	0.5	2.0	1.5	0.0	2.5	1.5	000.2608203
1.5	0.5	2.0	1.5	0.0	3.5	0.5	-000.4114756
1.5	0.5	2.0	1.5	0.0	3.5	0.5	000.4642071
1.5	0.5	2.0	1.5	0.0	3.5	0.5	000.4507489
1.5	0.5	2.0	1.5	0.0	3.5	0.5	-000.1371585
1.5	0.5	2.0	1.5	0.0	3.5	1.5	000.3407342

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
1.5	0.5	2.0	1.5	0.0	3.5	1.5	2.0	1.5	4.0	4.0	-000.4665694
1.5	0.5	2.0	1.5	0.0	3.5	1.5	3.0	1.5	3.0	3.0	000.2375655
1.5	0.5	2.0	1.5	0.0	3.5	1.5	3.0	1.5	5.0	5.0	-001.0720404
1.5	0.5	2.0	1.5	0.0	3.5	1.5	4.0	1.5	2.0	2.0	001.5238095
1.5	0.5	2.0	1.5	0.0	3.5	1.5	4.0	1.5	4.0	4.0	-000.9505450
1.5	0.5	2.0	1.5	0.0	3.5	1.5	5.0	1.5	3.0	3.0	-000.5312127
1.5	0.5	2.0	1.5	0.0	3.5	1.5	5.0	1.5	5.0	5.0	000.2397154
1.5	0.5	2.0	1.5	0.0	4.5	0.5	4.0	1.5	4.0	4.0	-000.4281526
1.5	0.5	2.0	1.5	0.0	4.5	0.5	4.0	1.5	6.0	6.0	000.5214885
1.5	0.5	2.0	1.5	0.0	4.5	0.5	5.0	1.5	3.0	3.0	000.5143445
1.5	0.5	2.0	1.5	0.0	4.5	0.5	5.0	1.5	5.0	5.0	-000.1834939
1.5	0.5	2.0	1.5	0.0	4.5	1.5	3.0	1.5	3.0	3.0	000.2969569
1.5	0.5	2.0	1.5	0.0	4.5	1.5	3.0	1.5	5.0	5.0	-000.4237611
1.5	0.5	2.0	1.5	0.0	4.5	1.5	4.0	1.5	4.0	4.0	000.4241621
1.5	0.5	2.0	1.5	0.0	4.5	1.5	4.0	1.5	6.0	6.0	-001.2578775
1.5	0.5	2.0	1.5	0.0	4.5	1.5	5.0	1.5	3.0	3.0	001.6798420
1.5	0.5	2.0	1.5	0.0	4.5	1.5	5.0	1.5	5.0	5.0	-001.0487552
1.5	0.5	2.0	1.5	0.0	4.5	1.5	6.0	1.5	4.0	4.0	-000.4694525
1.5	0.5	2.0	1.5	0.0	4.5	1.5	6.0	1.5	6.0	6.0	000.2223635
1.5	0.5	2.0	1.5	2.0	0.5	0.5	0.0	1.5	2.0	2.0	-000.2108185
1.5	0.5	2.0	1.5	2.0	0.5	0.5	1.0	1.5	1.0	1.0	-000.1571348
1.5	0.5	2.0	1.5	2.0	0.5	1.5	1.0	1.5	1.0	1.0	-000.2222222
1.5	0.5	2.0	1.5	2.0	0.5	1.5	2.0	1.5	2.0	2.0	-000.2981424
1.5	0.5	2.0	1.5	2.0	1.5	0.5	1.0	1.5	1.0	1.0	-000.3180185
1.5	0.5	2.0	1.5	2.0	1.5	0.5	1.0	1.5	1.0	3.0	000.1912366
1.5	0.5	2.0	1.5	2.0	1.5	0.5	1.0	1.5	3.0	1.0	-000.2385139
1.5	0.5	2.0	1.5	2.0	1.5	0.5	1.0	1.5	3.0	3.0	-000.2549821
1.5	0.5	2.0	1.5	2.0	1.5	0.5	2.0	1.5	0.0	2.0	-000.0000000

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
1.5	0.5	2.0	1.5	2.0	1.5	0.5	2.0	1.5	2.0	2.0	-000.0000000
1.5	0.5	2.0	1.5	2.0	1.5	1.5	0.0	1.5	0.0	2.0	-000.5962848
1.5	0.5	2.0	1.5	2.0	1.5	1.5	0.0	1.5	2.0	2.0	000.0000000
1.5	0.5	2.0	1.5	2.0	1.5	1.5	1.0	1.5	1.0	1.0	-000.4977778
1.5	0.5	2.0	1.5	2.0	1.5	1.5	1.0	1.5	1.0	3.0	-000.3420944
1.5	0.5	2.0	1.5	2.0	1.5	1.5	1.0	1.5	3.0	1.0	-000.3733333
1.5	0.5	2.0	1.5	2.0	1.5	1.5	1.0	1.5	3.0	3.0	000.4561258
1.5	0.5	2.0	1.5	2.0	1.5	1.5	2.0	1.5	0.0	2.0	-000.5962848
1.5	0.5	2.0	1.5	2.0	1.5	1.5	2.0	1.5	2.0	2.0	-000.0000000
1.5	0.5	2.0	1.5	2.0	1.5	1.5	3.0	1.5	1.0	1.0	-000.6400000
1.5	0.5	2.0	1.5	2.0	1.5	1.5	3.0	1.5	1.0	3.0	000.1710472
1.5	0.5	2.0	1.5	2.0	1.5	1.5	3.0	1.5	3.0	1.0	-000.4800001
1.5	0.5	2.0	1.5	2.0	1.5	1.5	3.0	1.5	3.0	3.0	-000.2280628
1.5	0.5	2.0	1.5	2.0	2.5	0.5	2.0	1.5	2.0	2.0	-000.2845782
1.5	0.5	2.0	1.5	2.0	2.5	0.5	2.0	1.5	2.0	4.0	000.2788285
1.5	0.5	2.0	1.5	2.0	2.5	0.5	2.0	1.5	4.0	2.0	-000.2788286
1.5	0.5	2.0	1.5	2.0	2.5	0.5	2.0	1.5	4.0	4.0	-000.2845781
1.5	0.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	1.0	1.0	-000.0730296
1.5	0.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	1.0	3.0	-000.0780720
1.5	0.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	3.0	1.0	000.3577708
1.5	0.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	3.0	3.0	-000.0159363
1.5	0.5	2.0	1.5	2.0	2.5	1.5	1.0	1.5	1.0	1.0	-000.0800000
1.5	0.5	2.0	1.5	2.0	2.5	1.5	1.0	1.5	1.0	3.0	-000.5131415
1.5	0.5	2.0	1.5	2.0	2.5	1.5	1.0	1.5	3.0	1.0	000.3919183
1.5	0.5	2.0	1.5	2.0	2.5	1.5	1.0	1.5	3.0	3.0	-000.1047445
1.5	0.5	2.0	1.5	2.0	2.5	1.5	2.0	1.5	2.0	2.0	-000.0304226
1.5	0.5	2.0	1.5	2.0	2.5	1.5	2.0	1.5	2.0	4.0	-000.5961605
1.5	0.5	2.0	1.5	2.0	2.5	1.5	2.0	1.5	4.0	2.0	-000.0298079

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
1.5	0.5	2.0	1.5	2.0	2.5	1.5	000.6084538
1.5	0.5	2.0	1.5	2.0	2.5	1.5	-000.2612789
1.5	0.5	2.0	1.5	2.0	2.5	1.5	-000.8030419
1.5	0.5	2.0	1.5	2.0	2.5	1.5	001.2800000
1.5	0.5	2.0	1.5	2.0	2.5	1.5	-000.1639202
1.5	0.5	2.0	1.5	2.0	2.5	1.5	-000.4471203
1.5	0.5	2.0	1.5	2.0	2.5	1.5	000.1825361
1.5	0.5	2.0	1.5	2.0	2.5	1.5	-000.4380867
1.5	0.5	2.0	1.5	2.0	2.5	1.5	-000.1863001
1.5	0.5	2.0	1.5	2.0	3.5	0.5	-000.2743171
1.5	0.5	2.0	1.5	2.0	3.5	0.5	000.3459996
1.5	0.5	2.0	1.5	2.0	3.5	0.5	-000.3066958
1.5	0.5	2.0	1.5	2.0	3.5	0.5	-000.3094712
1.5	0.5	2.0	1.5	2.0	3.5	0.5	-000.1287853
1.5	0.5	2.0	1.5	2.0	3.5	0.5	-000.1314411
1.5	0.5	2.0	1.5	2.0	3.5	0.5	000.4319594
1.5	0.5	2.0	1.5	2.0	3.5	0.5	-000.0391882
1.5	0.5	2.0	1.5	2.0	3.5	1.5	-000.0973524
1.5	0.5	2.0	1.5	2.0	3.5	1.5	-000.4471202
1.5	0.5	2.0	1.5	2.0	3.5	1.5	000.3265304
1.5	0.5	2.0	1.5	2.0	3.5	1.5	-000.1333054
1.5	0.5	2.0	1.5	2.0	3.5	1.5	000.1583771
1.5	0.5	2.0	1.5	2.0	3.5	1.5	-000.7990518
1.5	0.5	2.0	1.5	2.0	3.5	1.5	000.1770708
1.5	0.5	2.0	1.5	2.0	3.5	1.5	000.7146936
1.5	0.5	2.0	1.5	2.0	3.5	1.5	-000.4353740
1.5	0.5	2.0	1.5	2.0	3.5	1.5	-000.9109214
1.5	0.5	2.0	1.5	2.0	3.5	1.5	001.4602894

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
1.5	0.5	2.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	4.0	-000.2715841
1.5	0.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	3.0	-000.3541416
1.5	0.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	5.0	000.1786731
1.5	0.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	3.0	-000.3959422
1.5	0.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	5.0	-000.1598102
1.5	0.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	4.0	-000.2724606
1.5	0.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	6.0	000.4022705
1.5	0.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	6.0	4.0	-000.3302722
1.5	0.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	6.0	6.0	-000.3318562
1.5	0.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	3.0	3.0	-000.1714481
1.5	0.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	3.0	5.0	-000.1729995
1.5	0.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	5.0	3.0	000.4849284
1.5	0.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	5.0	5.0	-000.0611644
1.5	0.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	3.0	3.0	-000.0989854
1.5	0.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	3.0	5.0	-000.3995258
1.5	0.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	5.0	3.0	000.2799737
1.5	0.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	5.0	5.0	-000.1412534
1.5	0.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	4.0	000.2699210
1.5	0.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	6.0	-000.9703132
1.5	0.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	6.0	4.0	000.3271943
1.5	0.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	6.0	6.0	000.8004676
1.5	0.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	3.0	3.0	-000.5599473
1.5	0.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	3.0	5.0	-000.9887760
1.5	0.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	3.0	001.5837702
1.5	0.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	5.0	-000.3495854
1.5	0.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	4.0	-000.2987424
1.5	0.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	6.0	000.1715284
1.5	0.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	4.0	-000.3621301

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
1.5	0.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	6.0	-000.1415039
1.5	1.5	0.0	0.5	2.0	0.5	0.5	1.0	0.5	1.0	1.0	-000.4444444
1.5	1.5	0.0	0.5	2.0	0.5	1.5	1.0	0.5	1.0	1.0	000.7856742
1.5	1.5	0.0	0.5	2.0	0.5	1.5	2.0	0.5	0.0	2.0	000.6324555
1.5	1.5	0.0	0.5	2.0	1.5	0.5	1.0	0.5	1.0	1.0	000.4444444
1.5	1.5	0.0	0.5	2.0	1.5	0.5	2.0	0.5	2.0	2.0	-000.5962847
1.5	1.5	0.0	0.5	2.0	1.5	1.5	1.0	0.5	1.0	1.0	-000.1987616
1.5	1.5	0.0	0.5	2.0	1.5	1.5	2.0	0.5	2.0	2.0	000.5962848
1.5	1.5	0.0	0.5	2.0	1.5	1.5	3.0	0.5	1.0	3.0	000.9561828
1.5	1.5	0.0	0.5	2.0	2.5	0.5	2.0	0.5	2.0	2.0	000.5962847
1.5	1.5	0.0	0.5	2.0	2.5	0.5	3.0	0.5	3.0	3.0	-000.7126966
1.5	1.5	0.0	0.5	2.0	2.5	1.5	1.0	0.5	3.0	1.0	001.0954450
1.5	1.5	0.0	0.5	2.0	2.5	1.5	2.0	0.5	2.0	2.0	-000.0796819
1.5	1.5	0.0	0.5	2.0	2.5	1.5	3.0	0.5	3.0	3.0	000.5577732
1.5	1.5	0.0	0.5	2.0	2.5	1.5	4.0	0.5	2.0	4.0	001.1952285
1.5	1.5	0.0	0.5	2.0	3.5	0.5	3.0	0.5	3.0	3.0	000.7126966
1.5	1.5	0.0	0.5	2.0	3.5	0.5	4.0	0.5	4.0	4.0	-000.8114408
1.5	1.5	0.0	0.5	2.0	3.5	1.5	2.0	0.5	4.0	2.0	001.3522466
1.5	1.5	0.0	0.5	2.0	3.5	1.5	3.0	0.5	3.0	3.0	000.0000000
1.5	1.5	0.0	0.5	2.0	3.5	1.5	4.0	0.5	4.0	4.0	000.5486339
1.5	1.5	0.0	0.5	2.0	3.5	1.5	5.0	0.5	3.0	5.0	001.3926211
1.5	1.5	0.0	0.5	2.0	4.5	0.5	4.0	0.5	4.0	4.0	000.8114407
1.5	1.5	0.0	0.5	2.0	4.5	0.5	5.0	0.5	5.0	5.0	-000.8989329
1.5	1.5	0.0	0.5	2.0	4.5	1.5	3.0	0.5	5.0	3.0	001.5430333
1.5	1.5	0.0	0.5	2.0	4.5	1.5	4.0	0.5	4.0	4.0	000.0611643
1.5	1.5	0.0	0.5	2.0	4.5	1.5	5.0	0.5	5.0	5.0	000.5504815
1.5	1.5	0.0	0.5	2.0	4.5	1.5	6.0	0.5	4.0	6.0	001.5644655
1.5	1.5	0.0	1.5	0.0	0.5	0.5	1.0	1.5	1.0	1.0	000.3142697

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
1.5	1.5	0.0 1.5 0.0 0.5 1.5	1.0 1.5	1.0 1.0	-000.5555556
1.5	1.5	0.0 1.5 0.0 0.5 1.5	2.0 1.5	2.0 2.0	-000.4472136
1.5	1.5	0.0 1.5 0.0 1.5 0.5	1.0 1.5	1.0 1.0	000.9938080
1.5	1.5	0.0 1.5 0.0 1.5 0.5	2.0 1.5	2.0 2.0	000.5962848
1.5	1.5	0.0 1.5 0.0 1.5 1.5	1.0 1.5	1.0 1.0	-000.4444444
1.5	1.5	0.0 1.5 0.0 1.5 1.5	2.0 1.5	2.0 2.0	-000.5962848
1.5	1.5	0.0 1.5 0.0 1.5 1.5	3.0 1.5	3.0 3.0	-000.7126966
1.5	1.5	0.0 1.5 0.0 2.5 0.5	2.0 1.5	2.0 2.0	001.1155467
1.5	1.5	0.0 1.5 0.0 2.5 0.5	3.0 1.5	3.0 3.0	000.7968190
1.5	1.5	0.0 1.5 0.0 2.5 1.5	1.0 1.5	1.0 1.0	001.0000000
1.5	1.5	0.0 1.5 0.0 2.5 1.5	2.0 1.5	2.0 2.0	-000.1490712
1.5	1.5	0.0 1.5 0.0 2.5 1.5	3.0 1.5	3.0 3.0	-000.6236096
1.5	1.5	0.0 1.5 0.0 2.5 1.5	4.0 1.5	4.0 4.0	-000.9128709
1.5	1.5	0.0 1.5 0.0 3.5 0.5	3.0 1.5	3.0 3.0	001.2344268
1.5	1.5	0.0 1.5 0.0 3.5 0.5	4.0 1.5	4.0 4.0	000.9601097
1.5	1.5	0.0 1.5 0.0 3.5 1.5	2.0 1.5	2.0 2.0	001.1925696
1.5	1.5	0.0 1.5 0.0 3.5 1.5	3.0 1.5	3.0 3.0	000.0000000
1.5	1.5	0.0 1.5 0.0 3.5 1.5	4.0 1.5	4.0 4.0	-000.6491526
1.5	1.5	0.0 1.5 0.0 3.5 1.5	5.0 1.5	5.0 5.0	-001.0787196
1.5	1.5	0.0 1.5 0.0 4.5 0.5	4.0 1.5	4.0 4.0	001.3456224
1.5	1.5	0.0 1.5 0.0 4.5 0.5	5.0 1.5	5.0 5.0	001.1009637
1.5	1.5	0.0 1.5 0.0 4.5 1.5	3.0 1.5	3.0 3.0	001.3363062
1.5	1.5	0.0 1.5 0.0 4.5 1.5	4.0 1.5	4.0 4.0	000.1014300
1.5	1.5	0.0 1.5 0.0 4.5 1.5	5.0 1.5	5.0 5.0	-000.6741999
1.5	1.5	0.0 1.5 0.0 4.5 1.5	6.0 1.5	6.0 6.0	-001.2229988
1.5	1.5	0.0 1.5 2.0 0.5 0.5	1.0 1.5	1.0 1.0	-000.3142697
1.5	1.5	0.0 1.5 2.0 0.5 1.5	1.0 1.5	1.0 1.0	000.5555556
1.5	1.5	0.0 1.5 2.0 0.5 1.5	2.0 1.5	2.0 2.0	000.4472136

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
1.5	1.5	0.0	1.5	2.0	1.5	0.5	1.0	1.5	1.0	1.0	000.7950464
1.5	1.5	0.0	1.5	2.0	1.5	0.5	1.0	1.5	3.0	1.0	000.5962848
1.5	1.5	0.0	1.5	2.0	1.5	0.5	2.0	1.5	0.0	2.0	000.5962848
1.5	1.5	0.0	1.5	2.0	1.5	0.5	2.0	1.5	2.0	2.0	000.0000000
1.5	1.5	0.0	1.5	2.0	1.5	1.5	1.0	1.5	1.0	1.0	-000.3555556
1.5	1.5	0.0	1.5	2.0	1.5	1.5	1.0	1.5	3.0	1.0	-000.2666666
1.5	1.5	0.0	1.5	2.0	1.5	1.5	2.0	1.5	0.0	2.0	-000.5962848
1.5	1.5	0.0	1.5	2.0	1.5	1.5	2.0	1.5	2.0	2.0	000.0000000
1.5	1.5	0.0	1.5	2.0	1.5	1.5	3.0	1.5	1.0	3.0	-000.4276180
1.5	1.5	0.0	1.5	2.0	1.5	1.5	3.0	1.5	3.0	3.0	000.5701572
1.5	1.5	0.0	1.5	2.0	2.5	0.5	2.0	1.5	2.0	2.0	000.7968190
1.5	1.5	0.0	1.5	2.0	2.5	0.5	2.0	1.5	4.0	2.0	000.7807201
1.5	1.5	0.0	1.5	2.0	2.5	0.5	3.0	1.5	1.0	3.0	000.7807201
1.5	1.5	0.0	1.5	2.0	2.5	0.5	3.0	1.5	3.0	3.0	000.1593637
1.5	1.5	0.0	1.5	2.0	2.5	1.5	1.0	1.5	1.0	1.0	-000.2000000
1.5	1.5	0.0	1.5	2.0	2.5	1.5	1.0	1.5	3.0	1.0	000.9797959
1.5	1.5	0.0	1.5	2.0	2.5	1.5	2.0	1.5	2.0	2.0	-000.1064794
1.5	1.5	0.0	1.5	2.0	2.5	1.5	2.0	1.5	4.0	2.0	-000.1043280
1.5	1.5	0.0	1.5	2.0	2.5	1.5	3.0	1.5	1.0	3.0	-000.6110100
1.5	1.5	0.0	1.5	2.0	2.5	1.5	3.0	1.5	3.0	3.0	-000.1247218
1.5	1.5	0.0	1.5	2.0	2.5	1.5	4.0	1.5	2.0	4.0	-000.6388765
1.5	1.5	0.0	1.5	2.0	2.5	1.5	4.0	1.5	4.0	4.0	000.6520505
1.5	1.5	0.0	1.5	2.0	3.5	0.5	3.0	1.5	3.0	3.0	000.8229512
1.5	1.5	0.0	1.5	2.0	3.5	0.5	3.0	1.5	5.0	3.0	000.9200873
1.5	1.5	0.0	1.5	2.0	3.5	0.5	4.0	1.5	2.0	4.0	000.9200873
1.5	1.5	0.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	4.0	000.2743170
1.5	1.5	0.0	1.5	2.0	3.5	1.5	2.0	1.5	2.0	2.0	-000.3407341
1.5	1.5	0.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	2.0	001.1428570

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
1.5	1.5	0.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	3.0	000.0000000
1.5	1.5	0.0	1.5	2.0	3.5	1.5	3.0	1.5	5.0	3.0	000.0000000
1.5	1.5	0.0	1.5	2.0	3.5	1.5	4.0	1.5	2.0	4.0	-000.6220925
1.5	1.5	0.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	4.0	-000.1854720
1.5	1.5	0.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	5.0	-000.8040300
1.5	1.5	0.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	5.0	000.7191462
1.5	1.5	0.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	4.0	000.8563052
1.5	1.5	0.0	1.5	2.0	4.5	0.5	4.0	1.5	6.0	4.0	001.0379984
1.5	1.5	0.0	1.5	2.0	4.5	0.5	5.0	1.5	3.0	5.0	001.0379984
1.5	1.5	0.0	1.5	2.0	4.5	0.5	5.0	1.5	5.0	5.0	000.3669876
1.5	1.5	0.0	1.5	2.0	4.5	1.5	3.0	1.5	3.0	3.0	-000.4454352
1.5	1.5	0.0	1.5	2.0	4.5	1.5	3.0	1.5	5.0	3.0	001.2598815
1.5	1.5	0.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	4.0	000.0645462
1.5	1.5	0.0	1.5	2.0	4.5	1.5	4.0	1.5	6.0	4.0	000.0782417
1.5	1.5	0.0	1.5	2.0	4.5	1.5	5.0	1.5	3.0	5.0	-000.6356416
1.5	1.5	0.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	5.0	-000.2247332
1.5	1.5	0.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	6.0	-000.9434080
1.5	1.5	0.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	6.0	000.7782717
1.5	1.5	1.0	0.5	1.0	0.5	0.5	0.0	0.5	0.0	1.0	-000.9938080
1.5	1.5	1.0	0.5	1.0	0.5	0.5	1.0	0.5	1.0	2.0	-000.5333333
1.5	1.5	1.0	0.5	1.0	0.5	1.5	1.0	0.5	1.0	2.0	000.0942809
1.5	1.5	1.0	0.5	1.0	0.5	1.5	2.0	0.5	0.0	1.0	000.4919099
1.5	1.5	1.0	0.5	1.0	1.5	0.5	1.0	0.5	1.0	2.0	-000.8000000
1.5	1.5	1.0	0.5	1.0	1.5	0.5	2.0	0.5	2.0	1.0	000.2782662
1.5	1.5	1.0	0.5	1.0	1.5	0.5	2.0	0.5	2.0	3.0	-000.7649463
1.5	1.5	1.0	0.5	1.0	1.5	1.5	0.0	0.5	2.0	1.0	000.1987616
1.5	1.5	1.0	0.5	1.0	1.5	1.5	1.0	0.5	1.0	2.0	000.0000000
1.5	1.5	1.0	0.5	1.0	1.5	1.5	2.0	0.5	2.0	1.0	-000.3180185

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
1.5	1.5	1.0	0.5	1.0	1.5	1.5	2.0	0.5	2.0	3.0	000.1912365
1.5	1.5	1.0	0.5	1.0	1.5	1.5	3.0	0.5	1.0	2.0	000.5962847
1.5	1.5	1.0	0.5	1.0	2.5	0.5	2.0	0.5	2.0	1.0	000.7155417
1.5	1.5	1.0	0.5	1.0	2.5	0.5	2.0	0.5	2.0	3.0	-000.8286918
1.5	1.5	1.0	0.5	1.0	2.5	0.5	3.0	0.5	3.0	2.0	000.4190476
1.5	1.5	1.0	0.5	1.0	2.5	0.5	3.0	0.5	3.0	4.0	-000.9331389
1.5	1.5	1.0	0.5	1.0	2.5	1.5	1.0	0.5	3.0	2.0	000.3651483
1.5	1.5	1.0	0.5	1.0	2.5	1.5	2.0	0.5	2.0	1.0	000.3346639
1.5	1.5	1.0	0.5	1.0	2.5	1.5	2.0	0.5	2.0	3.0	-000.0681467
1.5	1.5	1.0	0.5	1.0	2.5	1.5	3.0	0.5	3.0	2.0	-000.3407341
1.5	1.5	1.0	0.5	1.0	2.5	1.5	3.0	0.5	3.0	4.0	000.2608200
1.5	1.5	1.0	0.5	1.0	2.5	1.5	4.0	0.5	2.0	3.0	000.6781326
1.5	1.5	1.0	0.5	1.0	3.5	0.5	3.0	0.5	3.0	2.0	000.9142857
1.5	1.5	1.0	0.5	1.0	3.5	0.5	3.0	0.5	3.0	4.0	-000.8812979
1.5	1.5	1.0	0.5	1.0	3.5	0.5	4.0	0.5	4.0	3.0	000.5312128
1.5	1.5	1.0	0.5	1.0	3.5	0.5	4.0	0.5	4.0	5.0	-001.0720403
1.5	1.5	1.0	0.5	1.0	3.5	1.5	2.0	0.5	4.0	3.0	000.4818710
1.5	1.5	1.0	0.5	1.0	3.5	1.5	3.0	0.5	3.0	2.0	000.3958972
1.5	1.5	1.0	0.5	1.0	3.5	1.5	3.0	0.5	3.0	4.0	-000.1197217
1.5	1.5	1.0	0.5	1.0	3.5	1.5	4.0	0.5	4.0	3.0	-000.3591651
1.5	1.5	1.0	0.5	1.0	3.5	1.5	4.0	0.5	4.0	5.0	000.3171136
1.5	1.5	1.0	0.5	1.0	3.5	1.5	5.0	0.5	3.0	4.0	000.7495769
1.5	1.5	1.0	0.5	1.0	4.5	0.5	4.0	0.5	4.0	3.0	001.0624254
1.5	1.5	1.0	0.5	1.0	4.5	0.5	4.0	0.5	4.0	5.0	-000.9380352
1.5	1.5	1.0	0.5	1.0	4.5	0.5	5.0	0.5	5.0	4.0	000.6268053
1.5	1.5	1.0	0.5	1.0	4.5	0.5	5.0	0.5	5.0	6.0	-001.1933272
1.5	1.5	1.0	0.5	1.0	4.5	1.5	3.0	0.5	5.0	4.0	000.5761609
1.5	1.5	1.0	0.5	1.0	4.5	1.5	4.0	0.5	4.0	3.0	000.4404581

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
1.5	1.5	1.0	0.5	1.0	4.5	1.5	4.0	0.5	4.0	5.0	-000.1616160
1.5	1.5	1.0	0.5	1.0	4.5	1.5	5.0	0.5	5.0	4.0	-000.3771039
1.5	1.5	1.0	0.5	1.0	4.5	1.5	5.0	0.5	5.0	6.0	000.3653802
1.5	1.5	1.0	0.5	1.0	4.5	1.5	6.0	0.5	4.0	5.0	000.8142443
1.5	1.5	1.0	1.5	1.0	0.5	0.5	0.0	1.5	2.0	1.0	000.3142697
1.5	1.5	1.0	1.5	1.0	0.5	0.5	1.0	1.5	1.0	2.0	000.1686548
1.5	1.5	1.0	1.5	1.0	0.5	1.5	1.0	1.5	1.0	2.0	-000.0298142
1.5	1.5	1.0	1.5	1.0	0.5	1.5	2.0	1.5	2.0	1.0	-000.1555555
1.5	1.5	1.0	1.5	1.0	1.5	0.5	1.0	1.5	1.0	2.0	000.6400000
1.5	1.5	1.0	1.5	1.0	1.5	0.5	1.0	1.5	3.0	2.0	000.4800000
1.5	1.5	1.0	1.5	1.0	1.5	0.5	2.0	1.5	0.0	1.0	000.6222222
1.5	1.5	1.0	1.5	1.0	1.5	0.5	2.0	1.5	2.0	1.0	000.4977778
1.5	1.5	1.0	1.5	1.0	1.5	0.5	2.0	1.5	2.0	3.0	000.3420944
1.5	1.5	1.0	1.5	1.0	1.5	1.5	0.0	1.5	0.0	1.0	000.4444444
1.5	1.5	1.0	1.5	1.0	1.5	1.5	0.0	1.5	2.0	1.0	000.3555556
1.5	1.5	1.0	1.5	1.0	1.5	1.5	1.0	1.5	1.0	2.0	000.0000000
1.5	1.5	1.0	1.5	1.0	1.5	1.5	1.0	1.5	3.0	2.0	000.0000000
1.5	1.5	1.0	1.5	1.0	1.5	1.5	2.0	1.5	0.0	1.0	-000.7111111
1.5	1.5	1.0	1.5	1.0	1.5	1.5	2.0	1.5	2.0	1.0	-000.5688889
1.5	1.5	1.0	1.5	1.0	1.5	1.5	2.0	1.5	2.0	3.0	-000.0855236
1.5	1.5	1.0	1.5	1.0	1.5	1.5	3.0	1.5	1.0	2.0	-000.4770278
1.5	1.5	1.0	1.5	1.0	1.5	1.5	3.0	1.5	3.0	2.0	-000.3577708
1.5	1.5	1.0	1.5	1.0	2.5	0.5	2.0	1.5	2.0	1.0	000.5986652
1.5	1.5	1.0	1.5	1.0	2.5	0.5	2.0	1.5	2.0	3.0	000.7923810
1.5	1.5	1.0	1.5	1.0	2.5	0.5	2.0	1.5	4.0	3.0	000.6065403
1.5	1.5	1.0	1.5	1.0	2.5	0.5	3.0	1.5	1.0	2.0	000.7185170
1.5	1.5	1.0	1.5	1.0	2.5	0.5	3.0	1.5	3.0	2.0	000.6704761
1.5	1.5	1.0	1.5	1.0	2.5	0.5	3.0	1.5	3.0	4.0	000.4665694

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
1.5	1.5	1.0	1.5	1.0	2.5	1.5	000.6260991
1.5	1.5	1.0	1.5	1.0	2.5	1.5	000.5842374
1.5	1.5	1.0	1.5	1.0	2.5	1.5	000.2800000
1.5	1.5	1.0	1.5	1.0	2.5	1.5	000.0651607
1.5	1.5	1.0	1.5	1.0	2.5	1.5	000.0498783
1.5	1.5	1.0	1.5	1.0	2.5	1.5	-000.5842373
1.5	1.5	1.0	1.5	1.0	2.5	1.5	-000.5451746
1.5	1.5	1.0	1.5	1.0	2.5	1.5	-000.1304100
1.5	1.5	1.0	1.5	1.0	2.5	1.5	-000.6484189
1.5	1.5	1.0	1.5	1.0	2.5	1.5	-000.4963423
1.5	1.5	1.0	1.5	1.0	3.5	0.5	000.7082026
1.5	1.5	1.0	1.5	1.0	3.5	0.5	000.9102005
1.5	1.5	1.0	1.5	1.0	3.5	0.5	000.7123445
1.5	1.5	1.0	1.5	1.0	3.5	0.5	000.8081221
1.5	1.5	1.0	1.5	1.0	3.5	0.5	000.8031181
1.5	1.5	1.0	1.5	1.0	3.5	0.5	000.5672703
1.5	1.5	1.0	1.5	1.0	3.5	1.5	000.7330593
1.5	1.5	1.0	1.5	1.0	3.5	1.5	000.7285202
1.5	1.5	1.0	1.5	1.0	3.5	1.5	000.3066607
1.5	1.5	1.0	1.5	1.0	3.5	1.5	000.1236480
1.5	1.5	1.0	1.5	1.0	3.5	1.5	000.0967698
1.5	1.5	1.0	1.5	1.0	3.5	1.5	-000.5463902
1.5	1.5	1.0	1.5	1.0	3.5	1.5	-000.5430067
1.5	1.5	1.0	1.5	1.0	3.5	1.5	-000.1678009
1.5	1.5	1.0	1.5	1.0	3.5	1.5	-000.7741597
1.5	1.5	1.0	1.5	1.0	3.5	1.5	-000.6058758
1.5	1.5	1.0	1.5	1.0	4.5	0.5	000.7879156
1.5	1.5	1.0	1.5	1.0	4.5	0.5	001.0118771

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
1.5	1.5	1.0	1.5	1.0	4.5	0.5	4.0	1.5	6.0	5.0	000.8049430
1.5	1.5	1.0	1.5	1.0	4.5	0.5	5.0	1.5	3.0	4.0	000.8901224
1.5	1.5	1.0	1.5	1.0	4.5	0.5	5.0	1.5	5.0	4.0	000.9155078
1.5	1.5	1.0	1.5	1.0	4.5	0.5	5.0	1.5	5.0	6.0	000.6536123
1.5	1.5	1.0	1.5	1.0	4.5	1.5	3.0	1.5	3.0	4.0	000.8182027
1.5	1.5	1.0	1.5	1.0	4.5	1.5	3.0	1.5	5.0	4.0	000.8415369
1.5	1.5	1.0	1.5	1.0	4.5	1.5	4.0	1.5	4.0	3.0	000.3266525
1.5	1.5	1.0	1.5	1.0	4.5	1.5	4.0	1.5	4.0	5.0	000.1743384
1.5	1.5	1.0	1.5	1.0	4.5	1.5	4.0	1.5	6.0	5.0	000.1386854
1.5	1.5	1.0	1.5	1.0	4.5	1.5	5.0	1.5	3.0	4.0	-000.5355233
1.5	1.5	1.0	1.5	1.0	4.5	1.5	5.0	1.5	5.0	4.0	-000.5507959
1.5	1.5	1.0	1.5	1.0	4.5	1.5	5.0	1.5	5.0	6.0	-000.2001268
1.5	1.5	1.0	1.5	1.0	4.5	1.5	6.0	1.5	4.0	5.0	-000.8783410
1.5	1.5	1.0	1.5	1.0	4.5	1.5	6.0	1.5	6.0	5.0	-000.6987159
1.5	1.5	1.0	1.5	3.0	0.5	0.5	0.0	1.5	2.0	1.0	-000.9428090
1.5	1.5	1.0	1.5	3.0	0.5	0.5	1.0	1.5	1.0	2.0	-000.5059644
1.5	1.5	1.0	1.5	3.0	0.5	1.5	1.0	1.5	1.0	2.0	000.0894427
1.5	1.5	1.0	1.5	3.0	0.5	1.5	2.0	1.5	2.0	1.0	000.4666666
1.5	1.5	1.0	1.5	3.0	1.5	0.5	1.0	1.5	1.0	2.0	000.4800000
1.5	1.5	1.0	1.5	3.0	1.5	0.5	1.0	1.5	3.0	2.0	-000.6399999
1.5	1.5	1.0	1.5	3.0	1.5	0.5	2.0	1.5	0.0	3.0	000.5701573
1.5	1.5	1.0	1.5	3.0	1.5	0.5	2.0	1.5	2.0	1.0	000.3733333
1.5	1.5	1.0	1.5	3.0	1.5	0.5	2.0	1.5	2.0	3.0	-000.4561258
1.5	1.5	1.0	1.5	3.0	1.5	1.5	0.0	1.5	2.0	1.0	000.2666666
1.5	1.5	1.0	1.5	3.0	1.5	1.5	1.0	1.5	1.0	2.0	000.0000000
1.5	1.5	1.0	1.5	3.0	1.5	1.5	1.0	1.5	3.0	2.0	000.0000000
1.5	1.5	1.0	1.5	3.0	1.5	1.5	2.0	1.5	0.0	3.0	-000.1425393
1.5	1.5	1.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	1.0	-000.4266666

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
1.5	1.5	1.0	1.5	3.0	1.5	1.5	000.1140313
1.5	1.5	1.0	1.5	3.0	1.5	1.5	-000.3577708
1.5	1.5	1.0	1.5	3.0	1.5	1.5	000.4770278
1.5	1.5	1.0	1.5	3.0	2.5	0.5	-000.0855236
1.5	1.5	1.0	1.5	3.0	2.5	0.5	000.5942856
1.5	1.5	1.0	1.5	3.0	2.5	0.5	000.6982971
1.5	1.5	1.0	1.5	3.0	2.5	0.5	-000.6065401
1.5	1.5	1.0	1.5	3.0	2.5	0.5	-000.1026452
1.5	1.5	1.0	1.5	3.0	2.5	0.5	000.7619047
1.5	1.5	1.0	1.5	3.0	2.5	0.5	000.5028569
1.5	1.5	1.0	1.5	3.0	2.5	0.5	-000.4665693
1.5	1.5	1.0	1.5	3.0	2.5	1.5	-000.0894427
1.5	1.5	1.0	1.5	3.0	2.5	1.5	000.4381780
1.5	1.5	1.0	1.5	3.0	2.5	1.5	-000.0399999
1.5	1.5	1.0	1.5	3.0	2.5	1.5	000.0488704
1.5	1.5	1.0	1.5	3.0	2.5	1.5	000.3265986
1.5	1.5	1.0	1.5	3.0	2.5	1.5	-000.0498784
1.5	1.5	1.0	1.5	3.0	2.5	1.5	000.0834624
1.5	1.5	1.0	1.5	3.0	2.5	1.5	-000.2129587
1.5	1.5	1.0	1.5	3.0	2.5	1.5	-000.4088809
1.5	1.5	1.0	1.5	3.0	2.5	1.5	000.1304100
1.5	1.5	1.0	1.5	3.0	2.5	1.5	-000.4863139
1.5	1.5	1.0	1.5	3.0	2.5	1.5	000.4963424
1.5	1.5	1.0	1.5	3.0	3.5	0.5	-000.1573782
1.5	1.5	1.0	1.5	3.0	3.5	0.5	000.6826500
1.5	1.5	1.0	1.5	3.0	3.5	0.5	000.8797716
1.5	1.5	1.0	1.5	3.0	3.5	0.5	-000.6105811
1.5	1.5	1.0	1.5	3.0	3.5	0.5	-000.1795825

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
1.5	1.5	1.0	1.5	3.0	3.5	0.5	000.9060393
1.5	1.5	1.0	1.5	3.0	3.5	0.5	000.6023384
1.5	1.5	1.0	1.5	3.0	3.5	0.5	-000.4862316
1.5	1.5	1.0	1.5	3.0	3.5	1.5	-000.1629019
1.5	1.5	1.0	1.5	3.0	3.5	1.5	000.5463900
1.5	1.5	1.0	1.5	3.0	3.5	1.5	-000.0681467
1.5	1.5	1.0	1.5	3.0	3.5	1.5	000.0927358
1.5	1.5	1.0	1.5	3.0	3.5	1.5	000.3809523
1.5	1.5	1.0	1.5	3.0	3.5	1.5	-000.0829455
1.5	1.5	1.0	1.5	3.0	3.5	1.5	000.1214197
1.5	1.5	1.0	1.5	3.0	3.5	1.5	-000.2680098
1.5	1.5	1.0	1.5	3.0	3.5	1.5	-000.4072551
1.5	1.5	1.0	1.5	3.0	3.5	1.5	000.1438288
1.5	1.5	1.0	1.5	3.0	3.5	1.5	-000.5806197
1.5	1.5	1.0	1.5	3.0	3.5	1.5	000.5193216
1.5	1.5	1.0	1.5	3.0	4.5	0.5	-000.2148862
1.5	1.5	1.0	1.5	3.0	4.5	0.5	000.7589079
1.5	1.5	1.0	1.5	3.0	4.5	0.5	001.0129827
1.5	1.5	1.0	1.5	3.0	4.5	0.5	-000.6260670
1.5	1.5	1.0	1.5	3.0	4.5	0.5	-000.2427606
1.5	1.5	1.0	1.5	3.0	4.5	0.5	001.0270528
1.5	1.5	1.0	1.5	3.0	4.5	0.5	000.6866309
1.5	1.5	1.0	1.5	3.0	4.5	0.5	-000.5083649
1.5	1.5	1.0	1.5	3.0	4.5	1.5	-000.2231461
1.5	1.5	1.0	1.5	3.0	4.5	1.5	000.6311524
1.5	1.5	1.0	1.5	3.0	4.5	1.5	-000.0890873
1.5	1.5	1.0	1.5	3.0	4.5	1.5	000.1307534
1.5	1.5	1.0	1.5	3.0	4.5	1.5	000.4199603

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
1.5	1.5	1.0 1.5 3.0 4.5	1.5 4.0	1.5 6.0 5.0	-000.1078658
1.5	1.5	1.0 1.5 3.0 4.5	1.5 5.0	1.5 3.0 4.0	000.1460517
1.5	1.5	1.0 1.5 3.0 4.5	1.5 5.0	1.5 3.0 6.0	-000.3144689
1.5	1.5	1.0 1.5 3.0 4.5	1.5 5.0	1.5 5.0 4.0	-000.4130967
1.5	1.5	1.0 1.5 3.0 4.5	1.5 5.0	1.5 5.0 6.0	000.1556545
1.5	1.5	1.0 1.5 3.0 4.5	1.5 6.0	1.5 4.0 5.0	-000.6587558
1.5	1.5	1.0 1.5 3.0 4.5	1.5 6.0	1.5 6.0 5.0	000.5434455
1.5	1.5	2.0 0.5 2.0 0.5	0.5 0.0	0.5 0.0 2.0	-000.5962848
1.5	1.5	2.0 0.5 2.0 0.5	0.5 1.0	0.5 1.0 1.0	-000.8888889
1.5	1.5	2.0 0.5 2.0 0.5	1.5 1.0	0.5 1.0 1.0	000.1571348
1.5	1.5	2.0 0.5 2.0 0.5	1.5 2.0	0.5 0.0 2.0	-000.2108185
1.5	1.5	2.0 0.5 2.0 1.5	0.5 1.0	0.5 1.0 1.0	000.0888889
1.5	1.5	2.0 0.5 2.0 1.5	0.5 1.0	0.5 1.0 3.0	-000.8552360
1.5	1.5	2.0 0.5 2.0 1.5	0.5 2.0	0.5 2.0 2.0	-000.5962847
1.5	1.5	2.0 0.5 2.0 1.5	1.5 0.0	0.5 2.0 2.0	-000.5962848
1.5	1.5	2.0 0.5 2.0 1.5	1.5 1.0	0.5 1.0 1.0	000.3180185
1.5	1.5	2.0 0.5 2.0 1.5	1.5 1.0	0.5 1.0 3.0	-000.1912365
1.5	1.5	2.0 0.5 2.0 1.5	1.5 2.0	0.5 2.0 2.0	-000.0000000
1.5	1.5	2.0 0.5 2.0 1.5	1.5 3.0	0.5 1.0 1.0	-000.3577709
1.5	1.5	2.0 0.5 2.0 1.5	1.5 3.0	0.5 1.0 3.0	-000.3824730
1.5	1.5	2.0 0.5 2.0 2.5	0.5 2.0	0.5 2.0 2.0	000.1703670
1.5	1.5	2.0 0.5 2.0 2.5	0.5 2.0	0.5 2.0 4.0	-001.0432810
1.5	1.5	2.0 0.5 2.0 2.5	0.5 3.0	0.5 3.0 1.0	000.8000000
1.5	1.5	2.0 0.5 2.0 2.5	0.5 3.0	0.5 3.0 3.0	-000.5701573
1.5	1.5	2.0 0.5 2.0 2.5	1.5 1.0	0.5 3.0 1.0	-000.6572669
1.5	1.5	2.0 0.5 2.0 2.5	1.5 1.0	0.5 3.0 3.0	-000.7026479
1.5	1.5	2.0 0.5 2.0 2.5	1.5 2.0	0.5 2.0 2.0	000.2845781
1.5	1.5	2.0 0.5 2.0 2.5	1.5 2.0	0.5 2.0 4.0	-000.2788284

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
1.5	1.5	2.0	0.5	2.0	2.5	1.5	3.0	0.5	3.0	1.0	-000.3577708
1.5	1.5	2.0	0.5	2.0	2.5	1.5	3.0	0.5	3.0	3.0	000.0159365
1.5	1.5	2.0	0.5	2.0	2.5	1.5	4.0	0.5	2.0	2.0	-000.5018915
1.5	1.5	2.0	0.5	2.0	2.5	1.5	4.0	0.5	2.0	4.0	-000.5122406
1.5	1.5	2.0	0.5	2.0	3.5	0.5	3.0	0.5	3.0	3.0	000.2375654
1.5	1.5	2.0	0.5	2.0	3.5	0.5	3.0	0.5	3.0	5.0	-001.1985773
1.5	1.5	2.0	0.5	2.0	3.5	0.5	4.0	0.5	4.0	2.0	001.0222025
1.5	1.5	2.0	0.5	2.0	3.5	0.5	4.0	0.5	4.0	4.0	-000.5796007
1.5	1.5	2.0	0.5	2.0	3.5	1.5	2.0	0.5	4.0	2.0	-000.7727121
1.5	1.5	2.0	0.5	2.0	3.5	1.5	2.0	0.5	4.0	4.0	-000.7886461
1.5	1.5	2.0	0.5	2.0	3.5	1.5	3.0	0.5	3.0	3.0	000.2743171
1.5	1.5	2.0	0.5	2.0	3.5	1.5	3.0	0.5	3.0	5.0	-000.3459994
1.5	1.5	2.0	0.5	2.0	3.5	1.5	4.0	0.5	4.0	2.0	-000.4319591
1.5	1.5	2.0	0.5	2.0	3.5	1.5	4.0	0.5	4.0	4.0	000.0391882
1.5	1.5	2.0	0.5	2.0	3.5	1.5	5.0	0.5	3.0	3.0	-000.6133911
1.5	1.5	2.0	0.5	2.0	3.5	1.5	5.0	0.5	3.0	5.0	-000.6189425
1.5	1.5	2.0	0.5	2.0	4.5	0.5	4.0	0.5	4.0	4.0	000.2950694
1.5	1.5	2.0	0.5	2.0	4.5	0.5	4.0	0.5	4.0	6.0	-001.3341805
1.5	1.5	2.0	0.5	2.0	4.5	0.5	5.0	0.5	5.0	3.0	001.1878275
1.5	1.5	2.0	0.5	2.0	4.5	0.5	5.0	0.5	5.0	5.0	-000.5992884
1.5	1.5	2.0	0.5	2.0	4.5	1.5	3.0	0.5	5.0	3.0	-000.8572403
1.5	1.5	2.0	0.5	2.0	4.5	1.5	3.0	0.5	5.0	5.0	-000.8649988
1.5	1.5	2.0	0.5	2.0	4.5	1.5	4.0	0.5	4.0	4.0	000.2724610
1.5	1.5	2.0	0.5	2.0	4.5	1.5	4.0	0.5	4.0	6.0	-000.4022705
1.5	1.5	2.0	0.5	2.0	4.5	1.5	5.0	0.5	5.0	3.0	-000.4849284
1.5	1.5	2.0	0.5	2.0	4.5	1.5	5.0	0.5	5.0	5.0	000.0611644
1.5	1.5	2.0	0.5	2.0	4.5	1.5	6.0	0.5	4.0	4.0	-000.7077259
1.5	1.5	2.0	0.5	2.0	4.5	1.5	6.0	0.5	4.0	6.0	-000.7111206

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
1.5	1.5	2.0	1.5	0.0	0.5	0.5	0.0	1.5	2.0	2.0	000.4216370
1.5	1.5	2.0	1.5	0.0	0.5	0.5	1.0	1.5	1.0	1.0	000.6285394
1.5	1.5	2.0	1.5	0.0	0.5	1.5	1.0	1.5	1.0	1.0	-000.1111111
1.5	1.5	2.0	1.5	0.0	0.5	1.5	2.0	1.5	2.0	2.0	000.1490712
1.5	1.5	2.0	1.5	0.0	1.5	0.5	1.0	1.5	1.0	1.0	000.1987616
1.5	1.5	2.0	1.5	0.0	1.5	0.5	1.0	1.5	3.0	3.0	000.6374553
1.5	1.5	2.0	1.5	0.0	1.5	0.5	2.0	1.5	2.0	2.0	000.5962848
1.5	1.5	2.0	1.5	0.0	1.5	1.5	0.0	1.5	2.0	2.0	000.5962848
1.5	1.5	2.0	1.5	0.0	1.5	1.5	1.0	1.5	1.0	1.0	000.7111111
1.5	1.5	2.0	1.5	0.0	1.5	1.5	1.0	1.5	3.0	3.0	000.1425393
1.5	1.5	2.0	1.5	0.0	1.5	1.5	2.0	1.5	2.0	2.0	000.0000000
1.5	1.5	2.0	1.5	0.0	1.5	1.5	3.0	1.5	1.0	1.0	-000.8000000
1.5	1.5	2.0	1.5	0.0	1.5	1.5	3.0	1.5	3.0	3.0	000.2850786
1.5	1.5	2.0	1.5	0.0	2.5	0.5	2.0	1.5	2.0	2.0	000.3187276
1.5	1.5	2.0	1.5	0.0	2.5	0.5	2.0	1.5	4.0	4.0	000.7968190
1.5	1.5	2.0	1.5	0.0	2.5	0.5	3.0	1.5	1.0	1.0	000.7302967
1.5	1.5	2.0	1.5	0.0	2.5	0.5	3.0	1.5	3.0	3.0	000.6374552
1.5	1.5	2.0	1.5	0.0	2.5	1.5	1.0	1.5	1.0	1.0	-000.6000000
1.5	1.5	2.0	1.5	0.0	2.5	1.5	1.0	1.5	3.0	3.0	000.7855844
1.5	1.5	2.0	1.5	0.0	2.5	1.5	2.0	1.5	2.0	2.0	000.5323971
1.5	1.5	2.0	1.5	0.0	2.5	1.5	2.0	1.5	4.0	4.0	000.2129587
1.5	1.5	2.0	1.5	0.0	2.5	1.5	3.0	1.5	1.0	1.0	-000.3265986
1.5	1.5	2.0	1.5	0.0	2.5	1.5	3.0	1.5	3.0	3.0	-000.0178174
1.5	1.5	2.0	1.5	0.0	2.5	1.5	4.0	1.5	2.0	2.0	-000.9389529
1.5	1.5	2.0	1.5	0.0	2.5	1.5	4.0	1.5	4.0	4.0	000.3912303
1.5	1.5	2.0	1.5	0.0	3.5	0.5	3.0	1.5	3.0	3.0	000.4114755
1.5	1.5	2.0	1.5	0.0	3.5	0.5	3.0	1.5	5.0	5.0	000.9284141
1.5	1.5	2.0	1.5	0.0	3.5	0.5	4.0	1.5	2.0	2.0	000.9014978

J_1	S''	ℓ'_1	S	ℓ_1	J_2	S'	ℓ'_2	S	ℓ_2	L	H
1.5	1.5	2.0	1.5	0.0	3.5	0.5	4.0	1.5	4.0	4.0	000.6857926
1.5	1.5	2.0	1.5	0.0	3.5	1.5	2.0	1.5	2.0	2.0	-000.6814682
1.5	1.5	2.0	1.5	0.0	3.5	1.5	2.0	1.5	4.0	4.0	000.9331388
1.5	1.5	2.0	1.5	0.0	3.5	1.5	3.0	1.5	3.0	3.0	000.4751310
1.5	1.5	2.0	1.5	0.0	3.5	1.5	3.0	1.5	5.0	5.0	000.2680099
1.5	1.5	2.0	1.5	0.0	3.5	1.5	4.0	1.5	2.0	2.0	-000.3809524
1.5	1.5	2.0	1.5	0.0	3.5	1.5	4.0	1.5	4.0	4.0	-000.0463679
1.5	1.5	2.0	1.5	0.0	3.5	1.5	5.0	1.5	3.0	3.0	-001.0624255
1.5	1.5	2.0	1.5	0.0	3.5	1.5	5.0	1.5	5.0	5.0	000.4794309
1.5	1.5	2.0	1.5	0.0	4.5	0.5	4.0	1.5	4.0	4.0	000.4893173
1.5	1.5	2.0	1.5	0.0	4.5	0.5	4.0	1.5	6.0	6.0	001.0429770
1.5	1.5	2.0	1.5	0.0	4.5	0.5	5.0	1.5	3.0	3.0	001.0286889
1.5	1.5	2.0	1.5	0.0	4.5	0.5	5.0	1.5	5.0	5.0	000.7339758
1.5	1.5	2.0	1.5	0.0	4.5	1.5	3.0	1.5	3.0	3.0	-000.7423924
1.5	1.5	2.0	1.5	0.0	4.5	1.5	3.0	1.5	5.0	5.0	001.0594027
1.5	1.5	2.0	1.5	0.0	4.5	1.5	4.0	1.5	4.0	4.0	000.4518249
1.5	1.5	2.0	1.5	0.0	4.5	1.5	4.0	1.5	6.0	6.0	000.3144691
1.5	1.5	2.0	1.5	0.0	4.5	1.5	5.0	1.5	3.0	3.0	-000.4199605
1.5	1.5	2.0	1.5	0.0	4.5	1.5	5.0	1.5	5.0	5.0	-000.0749111
1.5	1.5	2.0	1.5	0.0	4.5	1.5	6.0	1.5	4.0	4.0	-001.1736313
1.5	1.5	2.0	1.5	0.0	4.5	1.5	6.0	1.5	6.0	6.0	000.5559082
1.5	1.5	2.0	1.5	2.0	0.5	0.5	0.0	1.5	2.0	2.0	-000.4216370
1.5	1.5	2.0	1.5	2.0	0.5	0.5	1.0	1.5	1.0	1.0	-000.6285393
1.5	1.5	2.0	1.5	2.0	0.5	1.5	1.0	1.5	1.0	1.0	000.1111111
1.5	1.5	2.0	1.5	2.0	0.5	1.5	2.0	1.5	2.0	2.0	-000.1490712
1.5	1.5	2.0	1.5	2.0	1.5	0.5	1.0	1.5	1.0	1.0	000.1590092
1.5	1.5	2.0	1.5	2.0	1.5	0.5	1.0	1.5	1.0	3.0	000.3824731
1.5	1.5	2.0	1.5	2.0	1.5	0.5	1.0	1.5	3.0	1.0	000.1192569

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
1.5	1.5	2.0	1.5	2.0	1.5	0.5	1.0	1.5	3.0	3.0	-000.5099642
1.5	1.5	2.0	1.5	2.0	1.5	0.5	2.0	1.5	0.0	2.0	000.5962848
1.5	1.5	2.0	1.5	2.0	1.5	0.5	2.0	1.5	2.0	2.0	000.0000000
1.5	1.5	2.0	1.5	2.0	1.5	1.5	0.0	1.5	0.0	2.0	000.5962848
1.5	1.5	2.0	1.5	2.0	1.5	1.5	0.0	1.5	2.0	2.0	000.0000000
1.5	1.5	2.0	1.5	2.0	1.5	1.5	1.0	1.5	1.0	1.0	000.5688889
1.5	1.5	2.0	1.5	2.0	1.5	1.5	1.0	1.5	1.0	3.0	000.0855236
1.5	1.5	2.0	1.5	2.0	1.5	1.5	1.0	1.5	3.0	1.0	000.4266666
1.5	1.5	2.0	1.5	2.0	1.5	1.5	1.0	1.5	3.0	3.0	-000.1140313
1.5	1.5	2.0	1.5	2.0	1.5	1.5	2.0	1.5	0.0	2.0	000.0000000
1.5	1.5	2.0	1.5	2.0	1.5	1.5	2.0	1.5	2.0	2.0	000.0000000
1.5	1.5	2.0	1.5	2.0	1.5	1.5	3.0	1.5	1.0	1.0	-000.6399999
1.5	1.5	2.0	1.5	2.0	1.5	1.5	3.0	1.5	1.0	3.0	000.1710471
1.5	1.5	2.0	1.5	2.0	1.5	1.5	3.0	1.5	3.0	1.0	-000.4799999
1.5	1.5	2.0	1.5	2.0	1.5	1.5	3.0	1.5	3.0	3.0	-000.2280629
1.5	1.5	2.0	1.5	2.0	2.5	0.5	2.0	1.5	2.0	2.0	000.2276626
1.5	1.5	2.0	1.5	2.0	2.5	0.5	2.0	1.5	2.0	4.0	000.5576571
1.5	1.5	2.0	1.5	2.0	2.5	0.5	2.0	1.5	4.0	2.0	000.2230627
1.5	1.5	2.0	1.5	2.0	2.5	0.5	2.0	1.5	4.0	4.0	-000.5691563
1.5	1.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	1.0	1.0	-000.1460593
1.5	1.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	1.0	3.0	000.6245760
1.5	1.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	3.0	1.0	000.7155417
1.5	1.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	3.0	3.0	000.1274908
1.5	1.5	2.0	1.5	2.0	2.5	1.5	1.0	1.5	1.0	1.0	000.1199999
1.5	1.5	2.0	1.5	2.0	2.5	1.5	1.0	1.5	1.0	3.0	000.7697123
1.5	1.5	2.0	1.5	2.0	2.5	1.5	1.0	1.5	3.0	1.0	-000.5878775
1.5	1.5	2.0	1.5	2.0	2.5	1.5	1.0	1.5	3.0	3.0	000.1571167
1.5	1.5	2.0	1.5	2.0	2.5	1.5	2.0	1.5	2.0	2.0	000.3802826

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
1.5 1.5 2.0 1.5 2.0 2.5 1.5 2.0 1.5 2.0 4.0	000.1490400				
1.5 1.5 2.0 1.5 2.0 2.5 1.5 2.0 1.5 4.0 2.0	000.3726002				
1.5 1.5 2.0 1.5 2.0 2.5 1.5 2.0 1.5 4.0 4.0	-000.1521134				
1.5 1.5 2.0 1.5 2.0 2.5 1.5 3.0 1.5 1.0 1.0	000.0653195				
1.5 1.5 2.0 1.5 2.0 2.5 1.5 3.0 1.5 1.0 3.0	-000.0174574				
1.5 1.5 2.0 1.5 2.0 2.5 1.5 3.0 1.5 3.0 1.0	-000.3200000				
1.5 1.5 2.0 1.5 2.0 2.5 1.5 3.0 1.5 3.0 3.0	-000.0035633				
1.5 1.5 2.0 1.5 2.0 2.5 1.5 4.0 1.5 2.0 2.0	-000.6706806				
1.5 1.5 2.0 1.5 2.0 2.5 1.5 4.0 1.5 2.0 4.0	000.2738042				
1.5 1.5 2.0 1.5 2.0 2.5 1.5 4.0 1.5 4.0 2.0	-000.6571300				
1.5 1.5 2.0 1.5 2.0 2.5 1.5 4.0 1.5 4.0 4.0	-000.2794500				
1.5 1.5 2.0 1.5 2.0 3.5 0.5 3.0 1.5 3.0 3.0	000.2743171				
1.5 1.5 2.0 1.5 2.0 3.5 0.5 3.0 1.5 3.0 5.0	000.6919991				
1.5 1.5 2.0 1.5 2.0 3.5 0.5 3.0 1.5 5.0 3.0	000.3066957				
1.5 1.5 2.0 1.5 2.0 3.5 0.5 3.0 1.5 5.0 5.0	-000.6189425				
1.5 1.5 2.0 1.5 2.0 3.5 0.5 4.0 1.5 2.0 2.0	-000.2575707				
1.5 1.5 2.0 1.5 2.0 3.5 0.5 4.0 1.5 2.0 4.0	000.6572050				
1.5 1.5 2.0 1.5 2.0 3.5 0.5 4.0 1.5 4.0 2.0	000.8639184				
1.5 1.5 2.0 1.5 2.0 3.5 0.5 4.0 1.5 4.0 4.0	000.1959408				
1.5 1.5 2.0 1.5 2.0 3.5 1.5 2.0 1.5 2.0 2.0	000.1947050				
1.5 1.5 2.0 1.5 2.0 3.5 1.5 2.0 1.5 2.0 4.0	000.8942406				
1.5 1.5 2.0 1.5 2.0 3.5 1.5 2.0 1.5 4.0 2.0	-000.6530610				
1.5 1.5 2.0 1.5 2.0 3.5 1.5 2.0 1.5 4.0 4.0	000.2666109				
1.5 1.5 2.0 1.5 2.0 3.5 1.5 3.0 1.5 3.0 3.0	000.3167539				
1.5 1.5 2.0 1.5 2.0 3.5 1.5 3.0 1.5 3.0 5.0	000.1997628				
1.5 1.5 2.0 1.5 2.0 3.5 1.5 3.0 1.5 5.0 3.0	000.3541418				
1.5 1.5 2.0 1.5 2.0 3.5 1.5 3.0 1.5 5.0 5.0	-000.1786728				
1.5 1.5 2.0 1.5 2.0 3.5 1.5 4.0 1.5 2.0 2.0	000.1088433				

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
1.5	1.5	2.0 1.5 2.0 3.5	1.5 4.0	1.5 2.0 4.0	-000.0444351
1.5	1.5	2.0 1.5 2.0 3.5	1.5 4.0	1.5 4.0 2.0	-000.3650722
1.5	1.5	2.0 1.5 2.0 3.5	1.5 4.0	1.5 4.0 4.0	-000.0132480
1.5	1.5	2.0 1.5 2.0 3.5	1.5 5.0	1.5 3.0 3.0	-000.7082837
1.5	1.5	2.0 1.5 2.0 3.5	1.5 5.0	1.5 3.0 5.0	000.3573469
1.5	1.5	2.0 1.5 2.0 3.5	1.5 5.0	1.5 5.0 3.0	-000.7918852
1.5	1.5	2.0 1.5 2.0 3.5	1.5 5.0	1.5 5.0 5.0	-000.3196208
1.5	1.5	2.0 1.5 2.0 4.5	0.5 4.0	1.5 4.0 4.0	000.3113835
1.5	1.5	2.0 1.5 2.0 4.5	0.5 4.0	1.5 4.0 6.0	000.8045411
1.5	1.5	2.0 1.5 2.0 4.5	0.5 4.0	1.5 6.0 4.0	000.3774537
1.5	1.5	2.0 1.5 2.0 4.5	0.5 4.0	1.5 6.0 6.0	-000.6637125
1.5	1.5	2.0 1.5 2.0 4.5	0.5 5.0	1.5 3.0 3.0	-000.3428962
1.5	1.5	2.0 1.5 2.0 4.5	0.5 5.0	1.5 3.0 5.0	000.6919992
1.5	1.5	2.0 1.5 2.0 4.5	0.5 5.0	1.5 5.0 3.0	000.9698575
1.5	1.5	2.0 1.5 2.0 4.5	0.5 5.0	1.5 5.0 5.0	000.2446584
1.5	1.5	2.0 1.5 2.0 4.5	1.5 3.0	1.5 3.0 3.0	000.2474640
1.5	1.5	2.0 1.5 2.0 4.5	1.5 3.0	1.5 3.0 5.0	000.9988143
1.5	1.5	2.0 1.5 2.0 4.5	1.5 3.0	1.5 5.0 3.0	-000.6999340
1.5	1.5	2.0 1.5 2.0 4.5	1.5 3.0	1.5 5.0 5.0	000.3531341
1.5	1.5	2.0 1.5 2.0 4.5	1.5 4.0	1.5 4.0 4.0	000.2875248
1.5	1.5	2.0 1.5 2.0 4.5	1.5 4.0	1.5 4.0 6.0	000.2425781
1.5	1.5	2.0 1.5 2.0 4.5	1.5 4.0	1.5 6.0 4.0	000.3485325
1.5	1.5	2.0 1.5 2.0 4.5	1.5 4.0	1.5 6.0 6.0	-000.2001168
1.5	1.5	2.0 1.5 2.0 4.5	1.5 5.0	1.5 3.0 3.0	000.1399867
1.5	1.5	2.0 1.5 2.0 4.5	1.5 5.0	1.5 3.0 5.0	-000.0706265
1.5	1.5	2.0 1.5 2.0 4.5	1.5 5.0	1.5 5.0 3.0	-000.3959419
1.5	1.5	2.0 1.5 2.0 4.5	1.5 5.0	1.5 5.0 5.0	-000.0249700
1.5	1.5	2.0 1.5 2.0 4.5	1.5 6.0	1.5 4.0 4.0	-000.7468562

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
1.5	1.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	6.0	000.4288215
1.5	1.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	4.0	-000.9053262
1.5	1.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	6.0	-000.3537602
1.5	1.5	3.0	0.5	1.0	0.5	0.5	1.0	0.5	1.0	2.0	000.2666666
1.5	1.5	3.0	0.5	1.0	0.5	1.5	1.0	0.5	1.0	2.0	000.6599663
1.5	1.5	3.0	0.5	1.0	0.5	1.5	2.0	0.5	0.0	1.0	000.6324555
1.5	1.5	3.0	0.5	1.0	1.5	0.5	1.0	0.5	1.0	2.0	-000.2666666
1.5	1.5	3.0	0.5	1.0	1.5	0.5	2.0	0.5	2.0	1.0	000.3577709
1.5	1.5	3.0	0.5	1.0	1.5	0.5	2.0	0.5	2.0	3.0	000.3824731
1.5	1.5	3.0	0.5	1.0	1.5	1.5	0.0	0.5	2.0	3.0	-000.9561828
1.5	1.5	3.0	0.5	1.0	1.5	1.5	1.0	0.5	1.0	2.0	-000.5962847
1.5	1.5	3.0	0.5	1.0	1.5	1.5	2.0	0.5	2.0	1.0	000.3577709
1.5	1.5	3.0	0.5	1.0	1.5	1.5	2.0	0.5	2.0	3.0	000.3824730
1.5	1.5	3.0	0.5	1.0	1.5	1.5	3.0	0.5	1.0	2.0	000.0000000
1.5	1.5	3.0	0.5	1.0	2.5	0.5	2.0	0.5	2.0	1.0	-000.3577708
1.5	1.5	3.0	0.5	1.0	2.5	0.5	2.0	0.5	2.0	3.0	-000.3824732
1.5	1.5	3.0	0.5	1.0	2.5	0.5	3.0	0.5	3.0	2.0	000.4571428
1.5	1.5	3.0	0.5	1.0	2.5	0.5	3.0	0.5	3.0	4.0	000.4665693
1.5	1.5	3.0	0.5	1.0	2.5	1.5	1.0	0.5	3.0	2.0	-000.1564920
1.5	1.5	3.0	0.5	1.0	2.5	1.5	1.0	0.5	3.0	4.0	-001.2777531
1.5	1.5	3.0	0.5	1.0	2.5	1.5	2.0	0.5	2.0	1.0	-000.5259005
1.5	1.5	3.0	0.5	1.0	2.5	1.5	2.0	0.5	2.0	3.0	-000.5622112
1.5	1.5	3.0	0.5	1.0	2.5	1.5	3.0	0.5	3.0	2.0	000.2555507
1.5	1.5	3.0	0.5	1.0	2.5	1.5	3.0	0.5	3.0	4.0	000.2608203
1.5	1.5	3.0	0.5	1.0	2.5	1.5	4.0	0.5	2.0	1.0	-001.1710802
1.5	1.5	3.0	0.5	1.0	2.5	1.5	4.0	0.5	2.0	3.0	-000.1564921
1.5	1.5	3.0	0.5	1.0	3.5	0.5	3.0	0.5	3.0	2.0	-000.4571429
1.5	1.5	3.0	0.5	1.0	3.5	0.5	3.0	0.5	3.0	4.0	-000.4665695

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
1.5	1.5	3.0	0.5	1.0	3.5	0.5	4.0	0.5	4.0	3.0	000.5312125
1.5	1.5	3.0	0.5	1.0	3.5	0.5	4.0	0.5	4.0	5.0	000.5360200
1.5	1.5	3.0	0.5	1.0	3.5	1.5	2.0	0.5	4.0	3.0	-000.2409355
1.5	1.5	3.0	0.5	1.0	3.5	1.5	2.0	0.5	4.0	5.0	-001.5194740
1.5	1.5	3.0	0.5	1.0	3.5	1.5	3.0	0.5	3.0	2.0	-000.5278630
1.5	1.5	3.0	0.5	1.0	3.5	1.5	3.0	0.5	3.0	4.0	-000.5387479
1.5	1.5	3.0	0.5	1.0	3.5	1.5	4.0	0.5	4.0	3.0	000.1795827
1.5	1.5	3.0	0.5	1.0	3.5	1.5	4.0	0.5	4.0	5.0	000.1812077
1.5	1.5	3.0	0.5	1.0	3.5	1.5	5.0	0.5	3.0	2.0	-001.4754222
1.5	1.5	3.0	0.5	1.0	3.5	1.5	5.0	0.5	3.0	4.0	-000.2409355
1.5	1.5	3.0	0.5	1.0	4.5	0.5	4.0	0.5	4.0	3.0	-000.5312127
1.5	1.5	3.0	0.5	1.0	4.5	0.5	4.0	0.5	4.0	5.0	-000.5360202
1.5	1.5	3.0	0.5	1.0	4.5	0.5	5.0	0.5	5.0	4.0	000.5938155
1.5	1.5	3.0	0.5	1.0	4.5	0.5	5.0	0.5	5.0	6.0	000.5966636
1.5	1.5	3.0	0.5	1.0	4.5	1.5	3.0	0.5	5.0	4.0	-000.2999843
1.5	1.5	3.0	0.5	1.0	4.5	1.5	3.0	0.5	5.0	6.0	-001.7224195
1.5	1.5	3.0	0.5	1.0	4.5	1.5	4.0	0.5	4.0	3.0	-000.5205411
1.5	1.5	3.0	0.5	1.0	4.5	1.5	4.0	0.5	4.0	5.0	-000.5252527
1.5	1.5	3.0	0.5	1.0	4.5	1.5	5.0	0.5	5.0	4.0	000.1212115
1.5	1.5	3.0	0.5	1.0	4.5	1.5	5.0	0.5	5.0	6.0	000.1217938
1.5	1.5	3.0	0.5	1.0	4.5	1.5	6.0	0.5	4.0	3.0	-001.6988237
1.5	1.5	3.0	0.5	1.0	4.5	1.5	6.0	0.5	4.0	5.0	-000.2999848
1.5	1.5	3.0	1.5	1.0	0.5	0.5	1.0	1.5	1.0	2.0	-000.0843274
1.5	1.5	3.0	1.5	1.0	0.5	1.5	1.0	1.5	1.0	2.0	-000.2086996
1.5	1.5	3.0	1.5	1.0	0.5	1.5	2.0	1.5	2.0	1.0	-000.1999999
1.5	1.5	3.0	1.5	1.0	1.5	0.5	1.0	1.5	1.0	2.0	000.2133333
1.5	1.5	3.0	1.5	1.0	1.5	0.5	1.0	1.5	3.0	2.0	000.1599999
1.5	1.5	3.0	1.5	1.0	1.5	0.5	2.0	1.5	0.0	1.0	000.8000000

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
1.5	1.5	3.0	1.5	1.0	1.5	0.5	2.0	1.5	2.0	1.0	000.6400000
1.5	1.5	3.0	1.5	1.0	1.5	0.5	2.0	1.5	2.0	3.0	-000.1710472
1.5	1.5	3.0	1.5	1.0	1.5	1.5	0.0	1.5	2.0	3.0	000.4276180
1.5	1.5	3.0	1.5	1.0	1.5	1.5	1.0	1.5	1.0	2.0	000.4770278
1.5	1.5	3.0	1.5	1.0	1.5	1.5	1.0	1.5	3.0	2.0	000.3577708
1.5	1.5	3.0	1.5	1.0	1.5	1.5	2.0	1.5	0.0	1.0	000.8000000
1.5	1.5	3.0	1.5	1.0	1.5	1.5	2.0	1.5	2.0	1.0	000.6399999
1.5	1.5	3.0	1.5	1.0	1.5	1.5	2.0	1.5	2.0	3.0	-000.1710471
1.5	1.5	3.0	1.5	1.0	1.5	1.5	3.0	1.5	1.0	2.0	000.0000000
1.5	1.5	3.0	1.5	1.0	1.5	1.5	3.0	1.5	3.0	2.0	000.0000000
1.5	1.5	3.0	1.5	1.0	2.5	0.5	2.0	1.5	2.0	1.0	-000.2993325
1.5	1.5	3.0	1.5	1.0	2.5	0.5	2.0	1.5	2.0	3.0	000.3657143
1.5	1.5	3.0	1.5	1.0	2.5	0.5	2.0	1.5	4.0	3.0	000.2799418
1.5	1.5	3.0	1.5	1.0	2.5	0.5	3.0	1.5	1.0	2.0	000.7838367
1.5	1.5	3.0	1.5	1.0	2.5	0.5	3.0	1.5	3.0	2.0	000.7314285
1.5	1.5	3.0	1.5	1.0	2.5	0.5	3.0	1.5	3.0	4.0	-000.2332846
1.5	1.5	3.0	1.5	1.0	2.5	1.5	1.0	1.5	1.0	2.0	-000.2683281
1.5	1.5	3.0	1.5	1.0	2.5	1.5	1.0	1.5	3.0	2.0	-000.2503874
1.5	1.5	3.0	1.5	1.0	2.5	1.5	1.0	1.5	3.0	4.0	000.6388765
1.5	1.5	3.0	1.5	1.0	2.5	1.5	2.0	1.5	2.0	1.0	-000.4400000
1.5	1.5	3.0	1.5	1.0	2.5	1.5	2.0	1.5	2.0	3.0	000.5375768
1.5	1.5	3.0	1.5	1.0	2.5	1.5	2.0	1.5	4.0	3.0	000.4114964
1.5	1.5	3.0	1.5	1.0	2.5	1.5	3.0	1.5	1.0	2.0	000.4381780
1.5	1.5	3.0	1.5	1.0	2.5	1.5	3.0	1.5	3.0	2.0	000.4088809
1.5	1.5	3.0	1.5	1.0	2.5	1.5	3.0	1.5	3.0	4.0	-000.1304100
1.5	1.5	3.0	1.5	1.0	2.5	1.5	4.0	1.5	2.0	1.0	-000.9797958
1.5	1.5	3.0	1.5	1.0	2.5	1.5	4.0	1.5	2.0	3.0	000.1496352
1.5	1.5	3.0	1.5	1.0	2.5	1.5	4.0	1.5	4.0	3.0	000.1145402

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
1.5	1.5	3.0	1.5	1.0	3.5	0.5	3.0	1.5	3.0	2.0	-000.3541013
1.5	1.5	3.0	1.5	1.0	3.5	0.5	3.0	1.5	3.0	4.0	000.4818709
1.5	1.5	3.0	1.5	1.0	3.5	0.5	3.0	1.5	5.0	4.0	000.3771234
1.5	1.5	3.0	1.5	1.0	3.5	0.5	4.0	1.5	2.0	3.0	000.8081219
1.5	1.5	3.0	1.5	1.0	3.5	0.5	4.0	1.5	4.0	3.0	000.8031181
1.5	1.5	3.0	1.5	1.0	3.5	0.5	4.0	1.5	4.0	5.0	-000.2836352
1.5	1.5	3.0	1.5	1.0	3.5	1.5	2.0	1.5	2.0	3.0	-000.3665295
1.5	1.5	3.0	1.5	1.0	3.5	1.5	2.0	1.5	4.0	3.0	-000.3642602
1.5	1.5	3.0	1.5	1.0	3.5	1.5	2.0	1.5	4.0	5.0	000.8040299
1.5	1.5	3.0	1.5	1.0	3.5	1.5	3.0	1.5	3.0	2.0	-000.4088808
1.5	1.5	3.0	1.5	1.0	3.5	1.5	3.0	1.5	3.0	4.0	000.5564164
1.5	1.5	3.0	1.5	1.0	3.5	1.5	3.0	1.5	5.0	4.0	000.4354646
1.5	1.5	3.0	1.5	1.0	3.5	1.5	4.0	1.5	2.0	3.0	000.2731948
1.5	1.5	3.0	1.5	1.0	3.5	1.5	4.0	1.5	4.0	3.0	000.2715034
1.5	1.5	3.0	1.5	1.0	3.5	1.5	4.0	1.5	4.0	5.0	-000.0958858
1.5	1.5	3.0	1.5	1.0	3.5	1.5	5.0	1.5	3.0	2.0	-001.1428571
1.5	1.5	3.0	1.5	1.0	3.5	1.5	5.0	1.5	3.0	4.0	000.2488369
1.5	1.5	3.0	1.5	1.0	3.5	1.5	5.0	1.5	5.0	4.0	000.1947455
1.5	1.5	3.0	1.5	1.0	4.5	0.5	4.0	1.5	4.0	3.0	-000.3939579
1.5	1.5	3.0	1.5	1.0	4.5	0.5	4.0	1.5	4.0	5.0	000.5782156

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
1.5	1.5	3.0 1.5 1.0 4.5 0.5 4.0	1.5	4.0 5.0	000.5782156
1.5	1.5	3.0 1.5 1.0 4.5 0.5 4.0	1.5	6.0 5.0	000.4599677
1.5	1.5	3.0 1.5 1.0 4.5 0.5 5.0	1.5	3.0 4.0	000.8432741
1.5	1.5	3.0 1.5 1.0 4.5 0.5 5.0	1.5	5.0 4.0	000.8673236
1.5	1.5	3.0 1.5 1.0 4.5 0.5 5.0	1.5	5.0 6.0	-000.3268060
1.5	1.5	3.0 1.5 1.0 4.5 1.5 3.0	1.5	3.0 4.0	-000.4260065
1.5	1.5	3.0 1.5 1.0 4.5 1.5 3.0	1.5	5.0 4.0	-000.4381557
1.5	1.5	3.0 1.5 1.0 4.5 1.5 3.0	1.5	5.0 6.0	000.9434081
1.5	1.5	3.0 1.5 1.0 4.5 1.5 4.0	1.5	4.0 3.0	-000.3860441
1.5	1.5	3.0 1.5 1.0 4.5 1.5 4.0	1.5	4.0 5.0	000.5666001
1.5	1.5	3.0 1.5 1.0 4.5 1.5 4.0	1.5	6.0 5.0	000.4507274
1.5	1.5	3.0 1.5 1.0 4.5 1.5 5.0	1.5	3.0 4.0	000.1721328
1.5	1.5	3.0 1.5 1.0 4.5 1.5 5.0	1.5	5.0 4.0	000.1770413
1.5	1.5	3.0 1.5 1.0 4.5 1.5 5.0	1.5	5.0 6.0	-000.0667092
1.5	1.5	3.0 1.5 1.0 4.5 1.5 6.0	1.5	4.0 3.0	-001.2598816
1.5	1.5	3.0 1.5 1.0 4.5 1.5 6.0	1.5	4.0 5.0	000.3235990
1.5	1.5	3.0 1.5 1.0 4.5 1.5 6.0	1.5	6.0 5.0	000.2574213
1.5	1.5	3.0 1.5 3.0 0.5 0.5 1.0	1.5	1.0 2.0	000.2529822
1.5	1.5	3.0 1.5 3.0 0.5 1.5 1.0	1.5	1.0 2.0	000.6260990
1.5	1.5	3.0 1.5 3.0 0.5 1.5 2.0	1.5	2.0 1.0	000.6000000
1.5	1.5	3.0 1.5 3.0 1.5 0.5 1.0	1.5	1.0 2.0	000.1599999
1.5	1.5	3.0 1.5 3.0 1.5 0.5 1.0	1.5	3.0 2.0	-000.2133332
1.5	1.5	3.0 1.5 3.0 1.5 0.5 2.0	1.5	0.0 3.0	-000.2850786
1.5	1.5	3.0 1.5 3.0 1.5 0.5 2.0	1.5	2.0 1.0	000.4800001
1.5	1.5	3.0 1.5 3.0 1.5 0.5 2.0	1.5	2.0 3.0	000.2280630
1.5	1.5	3.0 1.5 3.0 1.5 1.5 0.0	1.5	0.0 3.0	000.7126966
1.5	1.5	3.0 1.5 3.0 1.5 1.5 0.0	1.5	2.0 3.0	-000.5701572
1.5	1.5	3.0 1.5 3.0 1.5 1.5 1.0	1.5	1.0 2.0	000.3577708

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
1.5	1.5	3.0	1.5	3.0	-000.4770278
1.5	1.5	3.0	1.5	3.0	-000.2850786
1.5	1.5	3.0	1.5	3.0	000.4799999
1.5	1.5	3.0	1.5	3.0	000.2280629
1.5	1.5	3.0	1.5	3.0	000.0000000
1.5	1.5	3.0	1.5	3.0	000.0000000
1.5	1.5	3.0	1.5	3.0	000.0427618
1.5	1.5	3.0	1.5	3.0	000.2742857
1.5	1.5	3.0	1.5	3.0	-000.3491486
1.5	1.5	3.0	1.5	3.0	-000.2799416
1.5	1.5	3.0	1.5	3.0	-000.1119766
1.5	1.5	3.0	1.5	3.0	-000.3809523
1.5	1.5	3.0	1.5	3.0	000.5485712
1.5	1.5	3.0	1.5	3.0	000.2332845
1.5	1.5	3.0	1.5	3.0	000.0383326
1.5	1.5	3.0	1.5	3.0	001.0432810
1.5	1.5	3.0	1.5	3.0	-000.1877904
1.5	1.5	3.0	1.5	3.0	-000.6388764
1.5	1.5	3.0	1.5	3.0	000.0628572
1.5	1.5	3.0	1.5	3.0	000.4031825
1.5	1.5	3.0	1.5	3.0	-000.5132263
1.5	1.5	3.0	1.5	3.0	-000.4114962
1.5	1.5	3.0	1.5	3.0	-000.0625968
1.5	1.5	3.0	1.5	3.0	-000.2129589
1.5	1.5	3.0	1.5	3.0	000.3066608
1.5	1.5	3.0	1.5	3.0	000.1304100
1.5	1.5	3.0	1.5	3.0	000.1399707
1.5	1.5	3.0	1.5	3.0	000.1122264

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
1.5	1.5	3.0 1.5 3.0 2.5 1.5 4.0	1.5	4.0 1.0	-001.1428568
1.5	1.5	3.0 1.5 3.0 2.5 1.5 4.0	1.5	4.0 3.0	-000.1145406
1.5	1.5	3.0 1.5 3.0 3.5 0.5 3.0	1.5	3.0 2.0	000.0786893
1.5	1.5	3.0 1.5 3.0 3.5 0.5 3.0	1.5	3.0 4.0	000.3614030
1.5	1.5	3.0 1.5 3.0 3.5 0.5 3.0	1.5	5.0 2.0	-000.4398860
1.5	1.5	3.0 1.5 3.0 3.5 0.5 3.0	1.5	5.0 4.0	-000.3232485
1.5	1.5	3.0 1.5 3.0 3.5 0.5 4.0	1.5	2.0 3.0	-000.1795824
1.5	1.5	3.0 1.5 3.0 3.5 0.5 4.0	1.5	2.0 5.0	-000.4530196
1.5	1.5	3.0 1.5 3.0 3.5 0.5 4.0	1.5	4.0 3.0	000.6023384
1.5	1.5	3.0 1.5 3.0 3.5 0.5 4.0	1.5	4.0 5.0	000.2431157
1.5	1.5	3.0 1.5 3.0 3.5 1.5 2.0	1.5	2.0 3.0	000.0814509
1.5	1.5	3.0 1.5 3.0 3.5 1.5 2.0	1.5	2.0 5.0	001.2841902
1.5	1.5	3.0 1.5 3.0 3.5 1.5 2.0	1.5	4.0 3.0	-000.2731951
1.5	1.5	3.0 1.5 3.0 3.5 1.5 2.0	1.5	4.0 5.0	-000.6891686
1.5	1.5	3.0 1.5 3.0 3.5 1.5 3.0	1.5	3.0 2.0	000.0908625
1.5	1.5	3.0 1.5 3.0 3.5 1.5 3.0	1.5	3.0 4.0	000.4173126
1.5	1.5	3.0 1.5 3.0 3.5 1.5 3.0	1.5	5.0 2.0	-000.5079365
1.5	1.5	3.0 1.5 3.0 3.5 1.5 3.0	1.5	5.0 4.0	-000.3732556
1.5	1.5	3.0 1.5 3.0 3.5 1.5 4.0	1.5	2.0 3.0	-000.0607101
1.5	1.5	3.0 1.5 3.0 3.5 1.5 4.0	1.5	2.0 5.0	-000.1531488
1.5	1.5	3.0 1.5 3.0 3.5 1.5 4.0	1.5	4.0 3.0	000.2036273
1.5	1.5	3.0 1.5 3.0 3.5 1.5 4.0	1.5	4.0 5.0	000.0821883
1.5	1.5	3.0 1.5 3.0 3.5 1.5 5.0	1.5	3.0 2.0	000.2539678
1.5	1.5	3.0 1.5 3.0 3.5 1.5 5.0	1.5	3.0 4.0	000.1866276
1.5	1.5	3.0 1.5 3.0 3.5 1.5 5.0	1.5	5.0 2.0	-001.4197254
1.5	1.5	3.0 1.5 3.0 3.5 1.5 5.0	1.5	5.0 4.0	-000.1669243
1.5	1.5	3.0 1.5 3.0 4.5 0.5 4.0	1.5	4.0 3.0	000.1074427
1.5	1.5	3.0 1.5 3.0 4.5 0.5 4.0	1.5	4.0 5.0	000.4336618

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
1.5	1.5	3.0 1.5 3.0 4.5 0.5 4.0	1.5	6.0 3.0	-000.5064916
1.5	1.5	3.0 1.5 3.0 4.5 0.5 4.0	1.5	6.0 5.0	-000.3577523
1.5	1.5	3.0 1.5 3.0 4.5 0.5 5.0	1.5	3.0 4.0	-000.2299840
1.5	1.5	3.0 1.5 3.0 4.5 0.5 5.0	1.5	3.0 6.0	-000.5135265
1.5	1.5	3.0 1.5 3.0 4.5 0.5 5.0	1.5	5.0 4.0	000.6504927
1.5	1.5	3.0 1.5 3.0 4.5 0.5 5.0	1.5	5.0 6.0	000.2541823
1.5	1.5	3.0 1.5 3.0 4.5 1.5 3.0	1.5	3.0 4.0	000.1161833
1.5	1.5	3.0 1.5 3.0 4.5 1.5 3.0	1.5	3.0 6.0	001.4824225
1.5	1.5	3.0 1.5 3.0 4.5 1.5 3.0	1.5	5.0 4.0	-000.3286165
1.5	1.5	3.0 1.5 3.0 4.5 1.5 3.0	1.5	5.0 6.0	-000.7337614
1.5	1.5	3.0 1.5 3.0 4.5 1.5 4.0	1.5	4.0 3.0	000.1052846
1.5	1.5	3.0 1.5 3.0 4.5 1.5 4.0	1.5	4.0 5.0	000.4249496
1.5	1.5	3.0 1.5 3.0 4.5 1.5 4.0	1.5	6.0 3.0	-000.4963167
1.5	1.5	3.0 1.5 3.0 4.5 1.5 4.0	1.5	6.0 5.0	-000.3505653
1.5	1.5	3.0 1.5 3.0 4.5 1.5 5.0	1.5	3.0 4.0	-000.0469452
1.5	1.5	3.0 1.5 3.0 4.5 1.5 5.0	1.5	3.0 6.0	-000.1048231
1.5	1.5	3.0 1.5 3.0 4.5 1.5 5.0	1.5	5.0 4.0	000.1327813
1.5	1.5	3.0 1.5 3.0 4.5 1.5 5.0	1.5	5.0 6.0	000.0518844
1.5	1.5	3.0 1.5 3.0 4.5 1.5 6.0	1.5	4.0 3.0	000.3436030
1.5	1.5	3.0 1.5 3.0 4.5 1.5 6.0	1.5	4.0 5.0	000.2426989
1.5	1.5	3.0 1.5 3.0 4.5 1.5 6.0	1.5	6.0 3.0	-001.6197651
1.5	1.5	3.0 1.5 3.0 4.5 1.5 6.0	1.5	6.0 5.0	-000.2002160
2.5	0.5	2.0 0.5 2.0 0.5 0.5 0.0	0.5	0.0 2.0	000.2981424
2.5	0.5	2.0 0.5 2.0 0.5 0.5 1.0	0.5	1.0 3.0	000.3563483
2.5	0.5	2.0 0.5 2.0 0.5 1.5 1.0	0.5	1.0 3.0	000.5039526
2.5	0.5	2.0 0.5 2.0 0.5 1.5 2.0	0.5	0.0 2.0	000.4216370
2.5	0.5	2.0 0.5 2.0 1.5 0.5 1.0	0.5	1.0 1.0	000.4000000
2.5	0.5	2.0 0.5 2.0 1.5 0.5 1.0	0.5	1.0 3.0	000.0712696

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	0.5	2.0 0.5	2.0 1.5 0.5	2.0 0.5 2.0 2.0	000.2129589
2.5	0.5	2.0 0.5	2.0 1.5 0.5	2.0 0.5 2.0 4.0	000.5216405
2.5	0.5	2.0 0.5	2.0 1.5 1.5 0.0	0.5 2.0 2.0	-000.5962847
2.5	0.5	2.0 0.5	2.0 1.5 1.5 1.0	0.5 1.0 1.0	-000.7155417
2.5	0.5	2.0 0.5	2.0 1.5 1.5 1.0	0.5 1.0 3.0	000.8286918
2.5	0.5	2.0 0.5	2.0 1.5 1.5 2.0	0.5 2.0 2.0	-000.1703670
2.5	0.5	2.0 0.5	2.0 1.5 1.5 2.0	0.5 2.0 4.0	001.0432810
2.5	0.5	2.0 0.5	2.0 1.5 1.5 3.0	0.5 1.0 1.0	000.3577708
2.5	0.5	2.0 0.5	2.0 1.5 1.5 3.0	0.5 1.0 3.0	000.3824732
2.5	0.5	2.0 0.5	2.0 2.5 0.5 2.0	0.5 2.0 2.0	-000.0000000
2.5	0.5	2.0 0.5	2.0 2.5 0.5 2.0	0.5 2.0 4.0	000.0000000
2.5	0.5	2.0 0.5	2.0 2.5 0.5 3.0	0.5 3.0 1.0	000.1714285
2.5	0.5	2.0 0.5	2.0 2.5 0.5 3.0	0.5 3.0 3.0	000.2850785
2.5	0.5	2.0 0.5	2.0 2.5 0.5 3.0	0.5 3.0 5.0	000.6420950
2.5	0.5	2.0 0.5	2.0 2.5 1.5 1.0	0.5 3.0 1.0	-000.4381779
2.5	0.5	2.0 0.5	2.0 2.5 1.5 1.0	0.5 3.0 3.0	-000.4684320
2.5	0.5	2.0 0.5	2.0 2.5 1.5 2.0	0.5 2.0 2.0	000.8195853
2.5	0.5	2.0 0.5	2.0 2.5 1.5 2.0	0.5 2.0 4.0	000.8364857
2.5	0.5	2.0 0.5	2.0 2.5 1.5 3.0	0.5 3.0 1.0	-000.1533304
2.5	0.5	2.0 0.5	2.0 2.5 1.5 3.0	0.5 3.0 3.0	000.0637453
2.5	0.5	2.0 0.5	2.0 2.5 1.5 3.0	0.5 3.0 5.0	001.4357683
2.5	0.5	2.0 0.5	2.0 2.5 1.5 4.0	0.5 2.0 2.0	000.3345941
2.5	0.5	2.0 0.5	2.0 2.5 1.5 4.0	0.5 2.0 4.0	000.3414935
2.5	0.5	2.0 0.5	2.0 3.5 0.5 3.0	0.5 3.0 1.0	-000.5714285
2.5	0.5	2.0 0.5	2.0 3.5 0.5 3.0	0.5 3.0 3.0	-000.1187827
2.5	0.5	2.0 0.5	2.0 3.5 0.5 3.0	0.5 3.0 5.0	-000.0428061
2.5	0.5	2.0 0.5	2.0 3.5 0.5 4.0	0.5 4.0 2.0	000.1987615
2.5	0.5	2.0 0.5	2.0 3.5 0.5 4.0	0.5 4.0 4.0	000.3319527

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	2.0	0.5	2.0	3.5	0.5	4.0	0.5	4.0	6.0	000.7412114
2.5	0.5	2.0	0.5	2.0	3.5	1.5	2.0	0.5	4.0	2.0	-000.3863560
2.5	0.5	2.0	0.5	2.0	3.5	1.5	2.0	0.5	4.0	4.0	-000.3943232
2.5	0.5	2.0	0.5	2.0	3.5	1.5	3.0	0.5	3.0	1.0	001.9794867
2.5	0.5	2.0	0.5	2.0	3.5	1.5	3.0	0.5	3.0	3.0	001.0972683
2.5	0.5	2.0	0.5	2.0	3.5	1.5	3.0	0.5	3.0	5.0	000.8402842
2.5	0.5	2.0	0.5	2.0	3.5	1.5	4.0	0.5	4.0	2.0	-000.0479955
2.5	0.5	2.0	0.5	2.0	3.5	1.5	4.0	0.5	4.0	4.0	000.2565039
2.5	0.5	2.0	0.5	2.0	3.5	1.5	4.0	0.5	4.0	6.0	001.7540266
2.5	0.5	2.0	0.5	2.0	3.5	1.5	5.0	0.5	3.0	3.0	000.3066957
2.5	0.5	2.0	0.5	2.0	3.5	1.5	5.0	0.5	3.0	5.0	000.3094708
2.5	0.5	2.0	0.5	2.0	4.5	0.5	4.0	0.5	4.0	2.0	-000.7098629
2.5	0.5	2.0	0.5	2.0	4.5	0.5	4.0	0.5	4.0	4.0	-000.1896874
2.5	0.5	2.0	0.5	2.0	4.5	0.5	4.0	0.5	4.0	6.0	-000.0741209
2.5	0.5	2.0	0.5	2.0	4.5	0.5	5.0	0.5	5.0	3.0	000.2159685
2.5	0.5	2.0	0.5	2.0	4.5	0.5	5.0	0.5	5.0	5.0	000.3687928
2.5	0.5	2.0	0.5	2.0	4.5	0.5	5.0	0.5	5.0	7.0	000.8274235
2.5	0.5	2.0	0.5	2.0	4.5	1.5	3.0	0.5	5.0	3.0	-000.3428964
2.5	0.5	2.0	0.5	2.0	4.5	1.5	3.0	0.5	5.0	5.0	-000.3459991
2.5	0.5	2.0	0.5	2.0	4.5	1.5	4.0	0.5	4.0	2.0	002.3543484
2.5	0.5	2.0	0.5	2.0	4.5	1.5	4.0	0.5	4.0	4.0	001.2296479
2.5	0.5	2.0	0.5	2.0	4.5	1.5	4.0	0.5	4.0	6.0	000.8492375
2.5	0.5	2.0	0.5	2.0	4.5	1.5	5.0	0.5	5.0	3.0	000.0440845
2.5	0.5	2.0	0.5	2.0	4.5	1.5	5.0	0.5	5.0	5.0	000.4140375
2.5	0.5	2.0	0.5	2.0	4.5	1.5	5.0	0.5	5.0	7.0	002.0267658
2.5	0.5	2.0	0.5	2.0	4.5	1.5	6.0	0.5	4.0	4.0	000.2830907
2.5	0.5	2.0	0.5	2.0	4.5	1.5	6.0	0.5	4.0	6.0	000.2844482
2.5	0.5	2.0	1.5	2.0	0.5	0.5	0.0	1.5	2.0	2.0	-000.1126872

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	0.5	2.0 1.5	2.0 0.5	0.5 1.0 1.5	1.0 3.0 -000.1346870
2.5	0.5	2.0 1.5	2.0 0.5	1.5 1.0 1.5	1.0 3.0 -000.1904762
2.5	0.5	2.0 1.5	2.0 0.5	1.5 2.0 1.5	2.0 2.0 -000.1593638
2.5	0.5	2.0 1.5	2.0 1.5	0.5 1.0 1.5	1.0 1.0 000.3346640
2.5	0.5	2.0 1.5	2.0 1.5	0.5 1.0 1.5	1.0 3.0 -000.0681469
2.5	0.5	2.0 1.5	2.0 1.5	0.5 1.0 1.5	3.0 1.0 -000.0478091
2.5	0.5	2.0 1.5	2.0 1.5	0.5 1.0 1.5	3.0 3.0 -000.0511101
2.5	0.5	2.0 1.5	2.0 1.5	0.5 2.0 1.5	0.0 2.0 000.3984095
2.5	0.5	2.0 1.5	2.0 1.5	0.5 2.0 1.5	2.0 2.0 000.2845782
2.5	0.5	2.0 1.5	2.0 1.5	0.5 2.0 1.5	2.0 4.0 -000.2788285
2.5	0.5	2.0 1.5	2.0 1.5	1.5 0.0 1.5	0.0 2.0 -001.1155467
2.5	0.5	2.0 1.5	2.0 1.5	1.5 0.0 1.5	2.0 2.0 -000.7968191
2.5	0.5	2.0 1.5	2.0 1.5	1.5 1.0 1.5	1.0 1.0 -000.5986652
2.5	0.5	2.0 1.5	2.0 1.5	1.5 1.0 1.5	1.0 3.0 -000.7923810
2.5	0.5	2.0 1.5	2.0 1.5	1.5 1.0 1.5	3.0 1.0 000.0855236
2.5	0.5	2.0 1.5	2.0 1.5	1.5 1.0 1.5	3.0 3.0 -000.5942856
2.5	0.5	2.0 1.5	2.0 1.5	1.5 2.0 1.5	0.0 2.0 -000.3187276
2.5	0.5	2.0 1.5	2.0 1.5	1.5 2.0 1.5	2.0 2.0 -000.2276626
2.5	0.5	2.0 1.5	2.0 1.5	1.5 2.0 1.5	2.0 4.0 -000.5576571
2.5	0.5	2.0 1.5	2.0 1.5	1.5 3.0 1.5	1.0 1.0 000.2993325
2.5	0.5	2.0 1.5	2.0 1.5	1.5 3.0 1.5	1.0 3.0 -000.3657143
2.5	0.5	2.0 1.5	2.0 1.5	1.5 3.0 1.5	3.0 1.0 -000.0427618
2.5	0.5	2.0 1.5	2.0 1.5	1.5 3.0 1.5	3.0 3.0 -000.2742857
2.5	0.5	2.0 1.5	2.0 2.5	0.5 2.0 1.5	2.0 2.0 000.0000000
2.5	0.5	2.0 1.5	2.0 2.5	0.5 2.0 1.5	2.0 4.0 000.0000000
2.5	0.5	2.0 1.5	2.0 2.5	0.5 2.0 1.5	4.0 2.0 000.0000000
2.5	0.5	2.0 1.5	2.0 2.5	0.5 2.0 1.5	4.0 4.0 000.0000000
2.5	0.5	2.0 1.5	2.0 2.5	0.5 3.0 1.5	1.0 1.0 000.3513239

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	0.5	2.0 1.5	2.0 2.5	0.5 3.0	1.5 1.0 3.0 000.3755812
2.5	0.5	2.0 1.5	2.0 2.5	0.5 3.0	1.5 3.0 1.0 000.3278341
2.5	0.5	2.0 1.5	2.0 2.5	0.5 3.0	1.5 3.0 3.0 000.2896241
2.5	0.5	2.0 1.5	2.0 2.5	0.5 3.0	1.5 3.0 5.0 -000.3837252
2.5	0.5	2.0 1.5	2.0 2.5	1.5 1.0	1.5 1.0 1.0 -000.8979977
2.5	0.5	2.0 1.5	2.0 2.5	1.5 1.0	1.5 1.0 3.0 -000.6171428
2.5	0.5	2.0 1.5	2.0 2.5	1.5 1.0	1.5 3.0 1.0 -000.8379566
2.5	0.5	2.0 1.5	2.0 2.5	1.5 1.0	1.5 3.0 3.0 -000.4759006
2.5	0.5	2.0 1.5	2.0 2.5	1.5 2.0	1.5 2.0 2.0 000.2927091
2.5	0.5	2.0 1.5	2.0 2.5	1.5 2.0	1.5 2.0 4.0 -000.9559836
2.5	0.5	2.0 1.5	2.0 2.5	1.5 2.0	1.5 4.0 2.0 -000.2150961
2.5	0.5	2.0 1.5	2.0 2.5	1.5 2.0	1.5 4.0 4.0 -000.7317724
2.5	0.5	2.0 1.5	2.0 2.5	1.5 3.0	1.5 1.0 1.0 -000.3142338
2.5	0.5	2.0 1.5	2.0 2.5	1.5 3.0	1.5 1.0 3.0 000.0839825
2.5	0.5	2.0 1.5	2.0 2.5	1.5 3.0	1.5 3.0 1.0 -000.2932234
2.5	0.5	2.0 1.5	2.0 2.5	1.5 3.0	1.5 3.0 3.0 000.0647617
2.5	0.5	2.0 1.5	2.0 2.5	1.5 3.0	1.5 3.0 5.0 -000.8580356
2.5	0.5	2.0 1.5	2.0 2.5	1.5 4.0	1.5 2.0 2.0 000.1194979
2.5	0.5	2.0 1.5	2.0 2.5	1.5 4.0	1.5 2.0 4.0 -000.3902784
2.5	0.5	2.0 1.5	2.0 2.5	1.5 4.0	1.5 4.0 2.0 -000.0878122
2.5	0.5	2.0 1.5	2.0 2.5	1.5 4.0	1.5 4.0 4.0 -000.2987447
2.5	0.5	2.0 1.5	2.0 3.5	0.5 3.0	1.5 3.0 1.0 -000.5290401
2.5	0.5	2.0 1.5	2.0 3.5	0.5 3.0	1.5 3.0 3.0 -000.0183285
2.5	0.5	2.0 1.5	2.0 3.5	0.5 3.0	1.5 3.0 5.0 000.0528410
2.5	0.5	2.0 1.5	2.0 3.5	0.5 3.0	1.5 5.0 3.0 000.0409838
2.5	0.5	2.0 1.5	2.0 3.5	0.5 3.0	1.5 5.0 5.0 000.0413545
2.5	0.5	2.0 1.5	2.0 3.5	0.5 4.0	1.5 2.0 2.0 000.3614029
2.5	0.5	2.0 1.5	2.0 3.5	0.5 4.0	1.5 2.0 4.0 000.3688555

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	2.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	2.0	000.3591653
2.5	0.5	2.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	4.0	000.2849261
2.5	0.5	2.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	6.0	-000.4687831
2.5	0.5	2.0	1.5	2.0	3.5	1.5	2.0	1.5	2.0	2.0	-000.7025015
2.5	0.5	2.0	1.5	2.0	3.5	1.5	2.0	1.5	2.0	4.0	-000.4381592
2.5	0.5	2.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	2.0	-000.6981520
2.5	0.5	2.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	4.0	-000.3384600
2.5	0.5	2.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	1.0	001.8326484
2.5	0.5	2.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	3.0	000.1693118
2.5	0.5	2.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	5.0	-001.0372697
2.5	0.5	2.0	1.5	2.0	3.5	1.5	3.0	1.5	5.0	3.0	-000.3785936
2.5	0.5	2.0	1.5	2.0	3.5	1.5	3.0	1.5	5.0	5.0	-000.8117916
2.5	0.5	2.0	1.5	2.0	3.5	1.5	4.0	1.5	2.0	2.0	-000.0872685
2.5	0.5	2.0	1.5	2.0	3.5	1.5	4.0	1.5	2.0	4.0	000.2850189
2.5	0.5	2.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	2.0	-000.0867284
2.5	0.5	2.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	4.0	000.2201658
2.5	0.5	2.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	6.0	-001.1093436
2.5	0.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	3.0	000.0473238
2.5	0.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	5.0	-000.3820198
2.5	0.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	3.0	-000.1058200
2.5	0.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	5.0	-000.2989776
2.5	0.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	2.0	-000.6292258
2.5	0.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	4.0	-000.0076426
2.5	0.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	6.0	000.0955654
2.5	0.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	6.0	4.0	000.0756590
2.5	0.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	6.0	6.0	000.0760218
2.5	0.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	3.0	3.0	000.3665715
2.5	0.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	3.0	5.0	000.3698890

J_1 , S"	l_1' , S	l_1 ; J_2 , S'	l_2' , S	l_2 ; L	H
2.5	0.5	2.0 1.5 2.0 4.5 0.5 5.0 1.5 5.0 3.0	000.3770257		
2.5	0.5	2.0 1.5 2.0 4.5 0.5 5.0 1.5 5.0 5.0	000.2816702		
2.5	0.5	2.0 1.5 2.0 4.5 0.5 5.0 1.5 5.0 7.0	-000.5416759		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 3.0 1.5 3.0 3.0	-000.5820101		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 3.0 1.5 3.0 5.0	-000.3470274		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 3.0 1.5 5.0 3.0	-000.5986084		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 3.0 1.5 5.0 5.0	-000.2642613		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 4.0 1.5 4.0 2.0	002.0869070		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 4.0 1.5 4.0 4.0	000.0495442		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 4.0 1.5 4.0 6.0	-001.0949363		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 4.0 1.5 6.0 4.0	-000.4904592		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 4.0 1.5 6.0 6.0	-000.8710164		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 5.0 1.5 3.0 3.0	000.0748259		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 5.0 1.5 3.0 5.0	000.4152681		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 5.0 1.5 5.0 3.0	000.0769601		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 5.0 1.5 5.0 5.0	000.3162257		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 5.0 1.5 5.0 7.0	-001.3268300		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 6.0 1.5 4.0 4.0	000.0114058		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 6.0 1.5 4.0 6.0	-000.3667439		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 6.0 1.5 6.0 4.0	-000.1129142		
2.5	0.5	2.0 1.5 2.0 4.5 1.5 6.0 1.5 6.0 6.0	-000.2917432		
2.5	0.5	2.0 1.5 4.0 0.5 0.5 0.0 1.5 2.0 2.0	000.2760262		
2.5	0.5	2.0 1.5 4.0 0.5 0.5 1.0 1.5 1.0 3.0	000.3299144		
2.5	0.5	2.0 1.5 4.0 0.5 1.5 1.0 1.5 1.0 3.0	000.4665695		
2.5	0.5	2.0 1.5 4.0 0.5 1.5 2.0 1.5 2.0 2.0	000.3903600		
2.5	0.5	2.0 1.5 4.0 1.5 0.5 1.0 1.5 1.0 3.0	-000.0521640		
2.5	0.5	2.0 1.5 4.0 1.5 0.5 1.0 1.5 3.0 1.0	000.3903600		
2.5	0.5	2.0 1.5 4.0 1.5 0.5 1.0 1.5 3.0 3.0	000.0521640		

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	2.0	1.5	4.0	1.5	0.5	2.0	1.5	0.0	4.0	-000.3984095
2.5	0.5	2.0	1.5	4.0	1.5	0.5	2.0	1.5	2.0	2.0	000.2788286
2.5	0.5	2.0	1.5	4.0	1.5	0.5	2.0	1.5	2.0	4.0	000.2845781
2.5	0.5	2.0	1.5	4.0	1.5	1.5	0.0	1.5	2.0	2.0	-000.7807201
2.5	0.5	2.0	1.5	4.0	1.5	1.5	1.0	1.5	1.0	3.0	-000.6065403
2.5	0.5	2.0	1.5	4.0	1.5	1.5	1.0	1.5	3.0	1.0	-000.6982971
2.5	0.5	2.0	1.5	4.0	1.5	1.5	1.0	1.5	3.0	3.0	000.6065401
2.5	0.5	2.0	1.5	4.0	1.5	1.5	2.0	1.5	0.0	4.0	-000.7968190
2.5	0.5	2.0	1.5	4.0	1.5	1.5	2.0	1.5	2.0	2.0	-000.2230627
2.5	0.5	2.0	1.5	4.0	1.5	1.5	2.0	1.5	2.0	4.0	000.5691563
2.5	0.5	2.0	1.5	4.0	1.5	1.5	3.0	1.5	1.0	3.0	-000.2799418
2.5	0.5	2.0	1.5	4.0	1.5	1.5	3.0	1.5	3.0	1.0	000.3491486
2.5	0.5	2.0	1.5	4.0	1.5	1.5	3.0	1.5	3.0	3.0	000.2799416
2.5	0.5	2.0	1.5	4.0	2.5	0.5	2.0	1.5	2.0	2.0	000.0000000
2.5	0.5	2.0	1.5	4.0	2.5	0.5	2.0	1.5	2.0	4.0	000.0000000
2.5	0.5	2.0	1.5	4.0	2.5	0.5	2.0	1.5	4.0	2.0	000.0000000
2.5	0.5	2.0	1.5	4.0	2.5	0.5	2.0	1.5	4.0	4.0	000.0000000
2.5	0.5	2.0	1.5	4.0	2.5	0.5	3.0	1.5	1.0	3.0	-000.0851835
2.5	0.5	2.0	1.5	4.0	2.5	0.5	3.0	1.5	1.0	5.0	-000.5372151
2.5	0.5	2.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	1.0	000.2509455
2.5	0.5	2.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	3.0	000.3129843
2.5	0.5	2.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	5.0	000.2819791
2.5	0.5	2.0	1.5	4.0	2.5	1.5	1.0	1.5	1.0	3.0	000.1399709
2.5	0.5	2.0	1.5	4.0	2.5	1.5	1.0	1.5	3.0	1.0	-000.6414268
2.5	0.5	2.0	1.5	4.0	2.5	1.5	1.0	1.5	3.0	3.0	-000.5142853
2.5	0.5	2.0	1.5	4.0	2.5	1.5	2.0	1.5	2.0	2.0	-000.2150961
2.5	0.5	2.0	1.5	4.0	2.5	1.5	2.0	1.5	2.0	4.0	-000.7317724
2.5	0.5	2.0	1.5	4.0	2.5	1.5	2.0	1.5	4.0	2.0	000.7317725

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	2.0	1.5	4.0	2.5	1.5	2.0	1.5	4.0	4.0	000.5377410
2.5	0.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	1.0	3.0	-000.0190475
2.5	0.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	1.0	5.0	-001.2012501
2.5	0.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	1.0	-000.2244525
2.5	0.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	3.0	000.0699854
2.5	0.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	5.0	000.6305247
2.5	0.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	2.0	-000.0878122
2.5	0.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	4.0	-000.2987447
2.5	0.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	2.0	000.2987447
2.5	0.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	4.0	000.2195315
2.5	0.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	1.0	000.0359966
2.5	0.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	3.0	000.0448956
2.5	0.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	5.0	000.0404477
2.5	0.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	1.0	-000.5634360
2.5	0.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	3.0	-000.1003894
2.5	0.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	5.0	-000.0253242
2.5	0.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	2.0	-000.0245903
2.5	0.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	4.0	-000.1368948
2.5	0.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	6.0	-000.6419079
2.5	0.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	2.0	000.2749286
2.5	0.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	4.0	000.3305952
2.5	0.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	6.0	000.2870697
2.5	0.5	2.0	1.5	4.0	3.5	1.5	2.0	1.5	2.0	2.0	000.0477990
2.5	0.5	2.0	1.5	4.0	3.5	1.5	2.0	1.5	2.0	4.0	000.1626160
2.5	0.5	2.0	1.5	4.0	3.5	1.5	2.0	1.5	4.0	2.0	-000.5344108
2.5	0.5	2.0	1.5	4.0	3.5	1.5	2.0	1.5	4.0	4.0	-000.3927106
2.5	0.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	1.0	-000.1246961
2.5	0.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	3.0	-000.4147285

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	5.0	-000.7939940
2.5	0.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	1.0	001.9517998
2.5	0.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	3.0	000.9273604
2.5	0.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	5.0	000.4971190
2.5	0.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	2.0	000.0059377
2.5	0.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	4.0	-000.1057800
2.5	0.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	6.0	-001.5190314
2.5	0.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	2.0	-000.0663877
2.5	0.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	4.0	000.2554551
2.5	0.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	6.0	000.6793312
2.5	0.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	3.0	-000.1159201
2.5	0.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	5.0	-000.2924226
2.5	0.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	3.0	000.2592053
2.5	0.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	5.0	000.1830857
2.5	0.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	2.0	000.0700578
2.5	0.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	4.0	000.0842432
2.5	0.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	6.0	000.0731521
2.5	0.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	2.0	-000.0523622
2.5	0.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	4.0	-000.0116601
2.5	0.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	6.0	-000.0031242
2.5	0.5	2.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	3.0	-000.0408141
2.5	0.5	2.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	5.0	-000.1742384
2.5	0.5	2.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	7.0	-000.7297187
2.5	0.5	2.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	3.0	000.2886001
2.5	0.5	2.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	5.0	000.3449744
2.5	0.5	2.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	7.0	000.2948508
2.5	0.5	2.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	3.0	000.0648010
2.5	0.5	2.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	5.0	000.1634693

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	2.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	3.0	-000.4582137
2.5	0.5	2.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	5.0	-000.3236529
2.5	0.5	2.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	2.0	-000.2323569
2.5	0.5	2.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	4.0	-000.5461072
2.5	0.5	2.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	6.0	-000.8381355
2.5	0.5	2.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	2.0	000.1736657
2.5	0.5	2.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	4.0	000.0755863
2.5	0.5	2.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	6.0	000.0357960
2.5	0.5	2.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	3.0	-000.0083313
2.5	0.5	2.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	5.0	-000.1956142
2.5	0.5	2.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	7.0	-001.7874392
2.5	0.5	2.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	3.0	000.0589102
2.5	0.5	2.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	5.0	000.3872958
2.5	0.5	2.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	7.0	000.7222346
2.5	0.5	2.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	4.0	-000.1257249
2.5	0.5	2.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	6.0	-000.2807297
2.5	0.5	2.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	4.0	000.0174015
2.5	0.5	2.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	6.0	000.0119897
2.5	0.5	3.0	0.5	3.0	0.5	0.5	0.0	0.5	0.0	3.0	-000.3563483
2.5	0.5	3.0	0.5	3.0	0.5	0.5	1.0	0.5	1.0	2.0	-000.2981424
2.5	0.5	3.0	0.5	3.0	0.5	1.5	1.0	0.5	1.0	2.0	-000.4216370
2.5	0.5	3.0	0.5	3.0	0.5	1.5	2.0	0.5	0.0	3.0	-000.5039526
2.5	0.5	3.0	0.5	3.0	1.5	0.5	1.0	0.5	1.0	2.0	-000.2129589
2.5	0.5	3.0	0.5	3.0	1.5	0.5	1.0	0.5	1.0	4.0	-000.5216405
2.5	0.5	3.0	0.5	3.0	1.5	0.5	2.0	0.5	2.0	1.0	-000.4000000
2.5	0.5	3.0	0.5	3.0	1.5	0.5	2.0	0.5	2.0	3.0	-000.0712697
2.5	0.5	3.0	0.5	3.0	1.5	1.5	0.0	0.5	2.0	3.0	000.7126966
2.5	0.5	3.0	0.5	3.0	1.5	1.5	1.0	0.5	1.0	2.0	-000.4190476

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	3.0	0.5	3.0	1.5	1.5	1.0	0.5	1.0	4.0	000.9331389
2.5	0.5	3.0	0.5	3.0	1.5	1.5	2.0	0.5	2.0	1.0	-000.8000000
2.5	0.5	3.0	0.5	3.0	1.5	1.5	2.0	0.5	2.0	3.0	000.5701573
2.5	0.5	3.0	0.5	3.0	1.5	1.5	3.0	0.5	1.0	2.0	-000.4571428
2.5	0.5	3.0	0.5	3.0	1.5	1.5	3.0	0.5	1.0	4.0	-000.4665693
2.5	0.5	3.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	1.0	-000.1714285
2.5	0.5	3.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	3.0	-000.2850785
2.5	0.5	3.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	5.0	-000.6420950
2.5	0.5	3.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	2.0	000.0000000
2.5	0.5	3.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	4.0	000.0000000
2.5	0.5	3.0	0.5	3.0	2.5	1.5	1.0	0.5	3.0	2.0	000.5598831
2.5	0.5	3.0	0.5	3.0	2.5	1.5	1.0	0.5	3.0	4.0	000.5714286
2.5	0.5	3.0	0.5	3.0	2.5	1.5	2.0	0.5	2.0	1.0	-000.2748973
2.5	0.5	3.0	0.5	3.0	2.5	1.5	2.0	0.5	2.0	3.0	-000.0761905
2.5	0.5	3.0	0.5	3.0	2.5	1.5	2.0	0.5	2.0	5.0	001.3728569
2.5	0.5	3.0	0.5	3.0	2.5	1.5	3.0	0.5	3.0	2.0	000.6857142
2.5	0.5	3.0	0.5	3.0	2.5	1.5	3.0	0.5	3.0	4.0	000.6998540
2.5	0.5	3.0	0.5	3.0	2.5	1.5	4.0	0.5	2.0	1.0	-000.3740877
2.5	0.5	3.0	0.5	3.0	2.5	1.5	4.0	0.5	2.0	3.0	-000.4665693
2.5	0.5	3.0	0.5	3.0	2.5	1.5	4.0	0.5	2.0	5.0	-000.4203498
2.5	0.5	3.0	0.5	3.0	3.5	0.5	3.0	0.5	3.0	2.0	-000.1987614
2.5	0.5	3.0	0.5	3.0	3.5	0.5	3.0	0.5	3.0	4.0	-000.3319529
2.5	0.5	3.0	0.5	3.0	3.5	0.5	3.0	0.5	3.0	6.0	-000.7412111
2.5	0.5	3.0	0.5	3.0	3.5	0.5	4.0	0.5	4.0	1.0	000.5714284
2.5	0.5	3.0	0.5	3.0	3.5	0.5	4.0	0.5	4.0	3.0	000.1187827
2.5	0.5	3.0	0.5	3.0	3.5	0.5	4.0	0.5	4.0	5.0	000.0428060
2.5	0.5	3.0	0.5	3.0	3.5	1.5	2.0	0.5	4.0	1.0	000.4319593
2.5	0.5	3.0	0.5	3.0	3.5	1.5	2.0	0.5	4.0	3.0	000.5387481

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	3.0	0.5	3.0	3.5	1.5	2.0	0.5	4.0	5.0	000.4853779
2.5	0.5	3.0	0.5	3.0	3.5	1.5	3.0	0.5	3.0	2.0	-000.1311485
2.5	0.5	3.0	0.5	3.0	3.5	1.5	3.0	0.5	3.0	4.0	000.1642739
2.5	0.5	3.0	0.5	3.0	3.5	1.5	3.0	0.5	3.0	6.0	001.7117546
2.5	0.5	3.0	0.5	3.0	3.5	1.5	4.0	0.5	4.0	1.0	001.9317809
2.5	0.5	3.0	0.5	3.0	3.5	1.5	4.0	0.5	4.0	3.0	001.0038977
2.5	0.5	3.0	0.5	3.0	3.5	1.5	4.0	0.5	4.0	5.0	000.7525013
2.5	0.5	3.0	0.5	3.0	3.5	1.5	5.0	0.5	3.0	2.0	-000.3665715
2.5	0.5	3.0	0.5	3.0	3.5	1.5	5.0	0.5	3.0	4.0	-000.4407937
2.5	0.5	3.0	0.5	3.0	3.5	1.5	5.0	0.5	3.0	6.0	-000.3827597
2.5	0.5	3.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	3.0	-000.2159688
2.5	0.5	3.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	5.0	-000.3687927
2.5	0.5	3.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	7.0	-000.8274239
2.5	0.5	3.0	0.5	3.0	4.5	0.5	5.0	0.5	5.0	2.0	000.7098630
2.5	0.5	3.0	0.5	3.0	4.5	0.5	5.0	0.5	5.0	4.0	000.1896870
2.5	0.5	3.0	0.5	3.0	4.5	0.5	5.0	0.5	5.0	6.0	000.0741205
2.5	0.5	3.0	0.5	3.0	4.5	1.5	3.0	0.5	5.0	2.0	000.4098391
2.5	0.5	3.0	0.5	3.0	4.5	1.5	3.0	0.5	5.0	4.0	000.4928224
2.5	0.5	3.0	0.5	3.0	4.5	1.5	3.0	0.5	5.0	6.0	000.4279385
2.5	0.5	3.0	0.5	3.0	4.5	1.5	4.0	0.5	4.0	3.0	-000.0162788
2.5	0.5	3.0	0.5	3.0	4.5	1.5	4.0	0.5	4.0	5.0	000.3474851
2.5	0.5	3.0	0.5	3.0	4.5	1.5	4.0	0.5	4.0	7.0	001.9958209
2.5	0.5	3.0	0.5	3.0	4.5	1.5	5.0	0.5	5.0	2.0	002.3184024
2.5	0.5	3.0	0.5	3.0	4.5	1.5	5.0	0.5	5.0	4.0	001.1615932
2.5	0.5	3.0	0.5	3.0	4.5	1.5	5.0	0.5	5.0	6.0	000.7867554
2.5	0.5	3.0	0.5	3.0	4.5	1.5	6.0	0.5	4.0	3.0	-000.3453350
2.5	0.5	3.0	0.5	3.0	4.5	1.5	6.0	0.5	4.0	5.0	-000.4127911
2.5	0.5	3.0	0.5	3.0	4.5	1.5	6.0	0.5	4.0	7.0	-000.3528147

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	3.0	1.5	1.0	0.5	0.5	0.0	1.5	2.0	3.0	000.2760262
2.5	0.5	3.0	1.5	1.0	0.5	0.5	1.0	1.5	1.0	2.0	000.2309401
2.5	0.5	3.0	1.5	1.0	0.5	1.5	1.0	1.5	1.0	2.0	000.3265986
2.5	0.5	3.0	1.5	1.0	0.5	1.5	2.0	1.5	2.0	3.0	000.3903600
2.5	0.5	3.0	1.5	1.0	1.5	0.5	1.0	1.5	1.0	2.0	-000.3651483
2.5	0.5	3.0	1.5	1.0	1.5	0.5	1.0	1.5	3.0	2.0	000.0521640
2.5	0.5	3.0	1.5	1.0	1.5	0.5	1.0	1.5	3.0	4.0	000.4259177
2.5	0.5	3.0	1.5	1.0	1.5	0.5	2.0	1.5	0.0	1.0	-000.3651483
2.5	0.5	3.0	1.5	1.0	1.5	0.5	2.0	1.5	2.0	1.0	000.0730296
2.5	0.5	3.0	1.5	1.0	1.5	0.5	2.0	1.5	2.0	3.0	000.0780720
2.5	0.5	3.0	1.5	1.0	1.5	1.5	0.0	1.5	2.0	3.0	-000.7807201
2.5	0.5	3.0	1.5	1.0	1.5	1.5	1.0	1.5	1.0	2.0	-000.7185170
2.5	0.5	3.0	1.5	1.0	1.5	1.5	1.0	1.5	3.0	2.0	000.1026452
2.5	0.5	3.0	1.5	1.0	1.5	1.5	1.0	1.5	3.0	4.0	-000.7619047
2.5	0.5	3.0	1.5	1.0	1.5	1.5	2.0	1.5	0.0	1.0	-000.7302967
2.5	0.5	3.0	1.5	1.0	1.5	1.5	2.0	1.5	2.0	1.0	000.1460593
2.5	0.5	3.0	1.5	1.0	1.5	1.5	2.0	1.5	2.0	3.0	-000.6245760
2.5	0.5	3.0	1.5	1.0	1.5	1.5	3.0	1.5	1.0	2.0	-000.7838367
2.5	0.5	3.0	1.5	1.0	1.5	1.5	3.0	1.5	3.0	2.0	000.1119766
2.5	0.5	3.0	1.5	1.0	1.5	1.5	3.0	1.5	3.0	4.0	000.3809521
2.5	0.5	3.0	1.5	1.0	2.5	0.5	2.0	1.5	2.0	1.0	-000.3513239
2.5	0.5	3.0	1.5	1.0	2.5	0.5	2.0	1.5	2.0	3.0	-000.3755812
2.5	0.5	3.0	1.5	1.0	2.5	0.5	2.0	1.5	4.0	3.0	000.0851835
2.5	0.5	3.0	1.5	1.0	2.5	0.5	2.0	1.5	4.0	5.0	000.5372151
2.5	0.5	3.0	1.5	1.0	2.5	0.5	3.0	1.5	1.0	2.0	000.0000000
2.5	0.5	3.0	1.5	1.0	2.5	0.5	3.0	1.5	3.0	2.0	000.0000000
2.5	0.5	3.0	1.5	1.0	2.5	0.5	3.0	1.5	3.0	4.0	-000.0000000
2.5	0.5	3.0	1.5	1.0	2.5	1.5	1.0	1.5	1.0	2.0	000.3919183

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	0.5	3.0 1.5 1.0	2.5 1.5 1.0	3.0 2.0	-000.2057143
2.5	0.5	3.0 1.5 1.0	2.5 1.5 1.0	3.0 4.0	-000.6998541
2.5	0.5	3.0 1.5 1.0	2.5 1.5 2.0	2.0 1.0	-000.5633717
2.5	0.5	3.0 1.5 1.0	2.5 1.5 2.0	2.0 3.0	-000.1003781
2.5	0.5	3.0 1.5 1.0	2.5 1.5 2.0	4.0 3.0	000.0227661
2.5	0.5	3.0 1.5 1.0	2.5 1.5 2.0	4.0 5.0	-001.1486145
2.5	0.5	3.0 1.5 1.0	2.5 1.5 3.0	1.0 2.0	000.4799999
2.5	0.5	3.0 1.5 1.0	2.5 1.5 3.0	3.0 2.0	-000.2519475
2.5	0.5	3.0 1.5 1.0	2.5 1.5 3.0	3.0 4.0	-000.8571427
2.5	0.5	3.0 1.5 1.0	2.5 1.5 4.0	2.0 1.0	-000.7666517
2.5	0.5	3.0 1.5 1.0	2.5 1.5 4.0	2.0 3.0	-000.6146889
2.5	0.5	3.0 1.5 1.0	2.5 1.5 4.0	4.0 3.0	000.1394144
2.5	0.5	3.0 1.5 1.0	2.5 1.5 4.0	4.0 5.0	000.3516896
2.5	0.5	3.0 1.5 1.0	3.5 0.5 3.0	3.0 2.0	-000.3771237
2.5	0.5	3.0 1.5 1.0	3.5 0.5 3.0	3.0 4.0	-000.3849000
2.5	0.5	3.0 1.5 1.0	3.5 0.5 3.0	5.0 4.0	000.1095388
2.5	0.5	3.0 1.5 1.0	3.5 0.5 3.0	5.0 6.0	000.6289388
2.5	0.5	3.0 1.5 1.0	3.5 0.5 4.0	2.0 1.0	000.5520525
2.5	0.5	3.0 1.5 1.0	3.5 0.5 4.0	2.0 3.0	000.0737710
2.5	0.5	3.0 1.5 1.0	3.5 0.5 4.0	4.0 3.0	-000.0549858
2.5	0.5	3.0 1.5 1.0	3.5 0.5 4.0	4.0 5.0	-000.0554835
2.5	0.5	3.0 1.5 1.0	3.5 1.5 2.0	2.0 1.0	000.4173122
2.5	0.5	3.0 1.5 1.0	3.5 1.5 2.0	2.0 3.0	000.3345941
2.5	0.5	3.0 1.5 1.0	3.5 1.5 2.0	4.0 3.0	-000.2493918
2.5	0.5	3.0 1.5 1.0	3.5 1.5 2.0	4.0 5.0	-000.6291217
2.5	0.5	3.0 1.5 1.0	3.5 1.5 3.0	3.0 2.0	-000.2488371
2.5	0.5	3.0 1.5 1.0	3.5 1.5 3.0	3.0 4.0	000.1904763
2.5	0.5	3.0 1.5 1.0	3.5 1.5 3.0	5.0 4.0	-000.0542075

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	3.0	1.5	1.0	3.5	1.5	3.0	1.5	5.0	6.0	-001.4524720
2.5	0.5	3.0	1.5	1.0	3.5	1.5	4.0	1.5	2.0	1.0	001.8662777
2.5	0.5	3.0	1.5	1.0	3.5	1.5	4.0	1.5	2.0	3.0	000.6234796
2.5	0.5	3.0	1.5	1.0	3.5	1.5	4.0	1.5	4.0	3.0	-000.4647145
2.5	0.5	3.0	1.5	1.0	3.5	1.5	4.0	1.5	4.0	5.0	-000.9753537
2.5	0.5	3.0	1.5	1.0	3.5	1.5	5.0	1.5	3.0	2.0	-000.6955205
2.5	0.5	3.0	1.5	1.0	3.5	1.5	5.0	1.5	3.0	4.0	-000.5111008
2.5	0.5	3.0	1.5	1.0	3.5	1.5	5.0	1.5	5.0	4.0	000.1454545
2.5	0.5	3.0	1.5	1.0	3.5	1.5	5.0	1.5	5.0	6.0	000.3247824
2.5	0.5	3.0	1.5	1.0	4.5	0.5	4.0	1.5	4.0	3.0	-000.3923266
2.5	0.5	3.0	1.5	1.0	4.5	0.5	4.0	1.5	4.0	5.0	-000.3958771
2.5	0.5	3.0	1.5	1.0	4.5	0.5	4.0	1.5	6.0	5.0	000.1291968
2.5	0.5	3.0	1.5	1.0	4.5	0.5	4.0	1.5	6.0	7.0	000.7085634
2.5	0.5	3.0	1.5	1.0	4.5	0.5	5.0	1.5	3.0	2.0	000.6734350
2.5	0.5	3.0	1.5	1.0	4.5	0.5	5.0	1.5	3.0	4.0	000.1099716
2.5	0.5	3.0	1.5	1.0	4.5	0.5	5.0	1.5	5.0	4.0	-000.0989689
2.5	0.5	3.0	1.5	1.0	4.5	0.5	5.0	1.5	5.0	6.0	-000.0994437
2.5	0.5	3.0	1.5	1.0	4.5	1.5	3.0	1.5	3.0	2.0	000.3888076
2.5	0.5	3.0	1.5	1.0	4.5	1.5	3.0	1.5	3.0	4.0	000.2857141
2.5	0.5	3.0	1.5	1.0	4.5	1.5	3.0	1.5	5.0	4.0	-000.2571294
2.5	0.5	3.0	1.5	1.0	4.5	1.5	3.0	1.5	5.0	6.0	-000.5741398
2.5	0.5	3.0	1.5	1.0	4.5	1.5	4.0	1.5	4.0	3.0	-000.0295723
2.5	0.5	3.0	1.5	1.0	4.5	1.5	4.0	1.5	4.0	5.0	000.3730042
2.5	0.5	3.0	1.5	1.0	4.5	1.5	4.0	1.5	6.0	5.0	-000.1217325
2.5	0.5	3.0	1.5	1.0	4.5	1.5	4.0	1.5	6.0	7.0	-001.7091190
2.5	0.5	3.0	1.5	1.0	4.5	1.5	5.0	1.5	3.0	2.0	002.1994297
2.5	0.5	3.0	1.5	1.0	4.5	1.5	5.0	1.5	3.0	4.0	000.6734352
2.5	0.5	3.0	1.5	1.0	4.5	1.5	5.0	1.5	5.0	4.0	-000.6060602

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	3.0	1.5	1.0	4.5	1.5	5.0	1.5	5.0	6.0	-001.0555434
2.5	0.5	3.0	1.5	1.0	4.5	1.5	6.0	1.5	4.0	3.0	-000.6273318
2.5	0.5	3.0	1.5	1.0	4.5	1.5	6.0	1.5	4.0	5.0	-000.4431067
2.5	0.5	3.0	1.5	1.0	4.5	1.5	6.0	1.5	6.0	5.0	000.1446108
2.5	0.5	3.0	1.5	1.0	4.5	1.5	6.0	1.5	6.0	7.0	000.3021320
2.5	0.5	3.0	1.5	3.0	0.5	0.5	0.0	1.5	2.0	3.0	-000.2253744
2.5	0.5	3.0	1.5	3.0	0.5	0.5	1.0	1.5	1.0	2.0	-000.1885618
2.5	0.5	3.0	1.5	3.0	0.5	1.5	1.0	1.5	1.0	2.0	-000.2666666
2.5	0.5	3.0	1.5	3.0	0.5	1.5	2.0	1.5	2.0	3.0	-000.3187276
2.5	0.5	3.0	1.5	3.0	1.5	0.5	1.0	1.5	1.0	2.0	-000.3407342
2.5	0.5	3.0	1.5	3.0	1.5	0.5	1.0	1.5	1.0	4.0	000.2608202
2.5	0.5	3.0	1.5	3.0	1.5	0.5	1.0	1.5	3.0	2.0	-000.2555507
2.5	0.5	3.0	1.5	3.0	1.5	0.5	1.0	1.5	3.0	4.0	-000.2608201
2.5	0.5	3.0	1.5	3.0	1.5	0.5	2.0	1.5	0.0	3.0	000.0796819
2.5	0.5	3.0	1.5	3.0	1.5	0.5	2.0	1.5	2.0	1.0	-000.3577708
2.5	0.5	3.0	1.5	3.0	1.5	0.5	2.0	1.5	2.0	3.0	000.0159363
2.5	0.5	3.0	1.5	3.0	1.5	1.5	0.0	1.5	0.0	3.0	-000.7968190
2.5	0.5	3.0	1.5	3.0	1.5	1.5	0.0	1.5	2.0	3.0	-000.1593637
2.5	0.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	1.0	2.0	-000.6704761
2.5	0.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	1.0	4.0	-000.4665694
2.5	0.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	3.0	2.0	-000.5028569
2.5	0.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	3.0	4.0	000.4665695
2.5	0.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	0.0	3.0	-000.6374552
2.5	0.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	1.0	-000.7155417
2.5	0.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	3.0	-000.1274908
2.5	0.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	1.0	2.0	-000.7314285
2.5	0.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	1.0	4.0	000.2332846
2.5	0.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	2.0	-000.5485712

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	4.0	-000.2332845
2.5	0.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	1.0	-000.3278341
2.5	0.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	3.0	-000.2896241
2.5	0.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	5.0	000.3837252
2.5	0.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	1.0	-000.2509455
2.5	0.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	3.0	-000.3129843
2.5	0.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	5.0	-000.2819791
2.5	0.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	1.0	2.0	000.0000000
2.5	0.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	1.0	4.0	-000.0000000
2.5	0.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	2.0	000.0000000
2.5	0.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	4.0	-000.0000000
2.5	0.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	1.0	2.0	-000.2057143
2.5	0.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	1.0	4.0	-000.6998541
2.5	0.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	3.0	2.0	000.3079357
2.5	0.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	3.0	4.0	-000.2857141
2.5	0.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	1.0	-000.5257038
2.5	0.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	3.0	-000.0774050
2.5	0.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	5.0	-000.8204391
2.5	0.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	1.0	-000.4024082
2.5	0.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	3.0	-000.0836485
2.5	0.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	5.0	000.6028970
2.5	0.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	1.0	2.0	-000.2519475
2.5	0.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	1.0	4.0	-000.8571427
2.5	0.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	2.0	000.3771427
2.5	0.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	4.0	-000.3499268
2.5	0.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	1.0	-000.7153930
2.5	0.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	3.0	-000.4740086
2.5	0.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	5.0	000.2512071

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	1.0	-000.5476081
2.5	0.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	3.0	-000.5122404
2.5	0.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	5.0	-000.1845988
2.5	0.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	2.0	-000.3335799
2.5	0.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	4.0	-000.2571296
2.5	0.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	6.0	000.4784495
2.5	0.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	2.0	-000.2868876
2.5	0.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	4.0	-000.3449755
2.5	0.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	6.0	-000.2995568
2.5	0.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	1.0	-000.0482942
2.5	0.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	3.0	-000.0602338
2.5	0.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	5.0	-000.0542667
2.5	0.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	1.0	000.5399491
2.5	0.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	3.0	000.0448956
2.5	0.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	5.0	-000.0275045
2.5	0.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	1.0	-000.0365073
2.5	0.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	3.0	-000.2731952
2.5	0.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	5.0	-000.6153293
2.5	0.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	1.0	000.4081627
2.5	0.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	3.0	000.2036274
2.5	0.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	5.0	-000.3118743
2.5	0.5	3.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	2.0	-000.2201059
2.5	0.5	3.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	4.0	000.1272456
2.5	0.5	3.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	6.0	-001.1049331
2.5	0.5	3.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	2.0	-000.1892962
2.5	0.5	3.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	4.0	000.1707189
2.5	0.5	3.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	6.0	000.6917975
2.5	0.5	3.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	1.0	-000.1632651

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	3.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	3.0	-000.5090686
2.5	0.5	3.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	5.0	-000.9539695
2.5	0.5	3.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	1.0	001.8253615
2.5	0.5	3.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	3.0	000.3794379
2.5	0.5	3.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	5.0	-000.4835121
2.5	0.5	3.0	1.5	3.0	3.5	1.5	5.0	1.5	3.0	2.0	-000.6152144
2.5	0.5	3.0	1.5	3.0	3.5	1.5	5.0	1.5	3.0	4.0	-000.3414377
2.5	0.5	3.0	1.5	3.0	3.5	1.5	5.0	1.5	3.0	6.0	000.2470702
2.5	0.5	3.0	1.5	3.0	3.5	1.5	5.0	1.5	5.0	2.0	-000.5291005
2.5	0.5	3.0	1.5	3.0	3.5	1.5	5.0	1.5	5.0	4.0	-000.4580863
2.5	0.5	3.0	1.5	3.0	3.5	1.5	5.0	1.5	5.0	6.0	-000.1546900
2.5	0.5	3.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	3.0	-000.2348936
2.5	0.5	3.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	5.0	-000.2362084
2.5	0.5	3.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	7.0	000.5578486
2.5	0.5	3.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	3.0	-000.3088773
2.5	0.5	3.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	5.0	-000.3692119
2.5	0.5	3.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	7.0	-000.3155673
2.5	0.5	3.0	1.5	3.0	4.5	0.5	5.0	1.5	3.0	2.0	-000.0916425
2.5	0.5	3.0	1.5	3.0	4.5	0.5	5.0	1.5	3.0	4.0	-000.1101982
2.5	0.5	3.0	1.5	3.0	4.5	0.5	5.0	1.5	3.0	6.0	-000.0956899
2.5	0.5	3.0	1.5	3.0	4.5	0.5	5.0	1.5	5.0	2.0	000.6480123
2.5	0.5	3.0	1.5	3.0	4.5	0.5	5.0	1.5	5.0	4.0	000.0519482
2.5	0.5	3.0	1.5	3.0	4.5	0.5	5.0	1.5	5.0	6.0	-000.0541307
2.5	0.5	3.0	1.5	3.0	4.5	1.5	3.0	1.5	3.0	2.0	-000.0529103
2.5	0.5	3.0	1.5	3.0	4.5	1.5	3.0	1.5	3.0	4.0	-000.2863036
2.5	0.5	3.0	1.5	3.0	4.5	1.5	3.0	1.5	3.0	6.0	-000.5524661
2.5	0.5	3.0	1.5	3.0	4.5	1.5	3.0	1.5	5.0	2.0	000.3741302
2.5	0.5	3.0	1.5	3.0	4.5	1.5	3.0	1.5	5.0	4.0	000.1349643

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	0.5	3.0	1.5	3.0	4.5	1.5	3.0	1.5	5.0	6.0	-000.3125216
2.5	0.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	3.0	-000.0252436
2.5	0.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	5.0	000.2225608
2.5	0.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	7.0	-001.3455826
2.5	0.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	3.0	-000.0232821
2.5	0.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	5.0	000.3478792
2.5	0.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	7.0	000.7611753
2.5	0.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	2.0	-000.2993038
2.5	0.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	4.0	-000.6748246
2.5	0.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	6.0	-001.0156966
2.5	0.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	2.0	002.1164023
2.5	0.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	4.0	000.3181151
2.5	0.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	6.0	-000.5745654
2.5	0.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	3.0	-000.5354964
2.5	0.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	5.0	-000.2643881
2.5	0.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	7.0	000.2378666
2.5	0.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	3.0	-000.4938955
2.5	0.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	5.0	-000.4132604
2.5	0.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	7.0	-000.1345583
2.5	1.5	1.0	0.5	3.0	0.5	0.5	1.0	0.5	1.0	2.0	-000.3265986
2.5	1.5	1.0	0.5	3.0	0.5	1.5	1.0	0.5	1.0	2.0	000.9237604
2.5	1.5	1.0	0.5	3.0	0.5	1.5	2.0	0.5	0.0	3.0	000.8280786
2.5	1.5	1.0	0.5	3.0	1.5	0.5	1.0	0.5	1.0	2.0	000.3265985
2.5	1.5	1.0	0.5	3.0	1.5	0.5	2.0	0.5	2.0	1.0	-000.4381779
2.5	1.5	1.0	0.5	3.0	1.5	0.5	2.0	0.5	2.0	3.0	-000.4684319
2.5	1.5	1.0	0.5	3.0	1.5	1.5	0.0	0.5	2.0	1.0	-001.0954450
2.5	1.5	1.0	0.5	3.0	1.5	1.5	1.0	0.5	1.0	2.0	-000.3651483
2.5	1.5	1.0	0.5	3.0	1.5	1.5	2.0	0.5	2.0	1.0	000.6572669

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	1.0	0.5	3.0	1.5	1.5	2.0	0.5	2.0	3.0	000.7026479
2.5	1.5	1.0	0.5	3.0	1.5	1.5	3.0	0.5	1.0	2.0	000.1564920
2.5	1.5	1.0	0.5	3.0	1.5	1.5	3.0	0.5	1.0	4.0	001.2777531
2.5	1.5	1.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	1.0	000.4381779
2.5	1.5	1.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	3.0	000.4684320
2.5	1.5	1.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	2.0	-000.5598831
2.5	1.5	1.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	4.0	-000.5714286
2.5	1.5	1.0	0.5	3.0	2.5	1.5	1.0	0.5	3.0	2.0	000.0000000
2.5	1.5	1.0	0.5	3.0	2.5	1.5	2.0	0.5	2.0	1.0	-000.2342157
2.5	1.5	1.0	0.5	3.0	2.5	1.5	2.0	0.5	2.0	3.0	-000.2503874
2.5	1.5	1.0	0.5	3.0	2.5	1.5	3.0	0.5	3.0	2.0	000.6259684
2.5	1.5	1.0	0.5	3.0	2.5	1.5	3.0	0.5	3.0	4.0	000.6388764
2.5	1.5	1.0	0.5	3.0	2.5	1.5	4.0	0.5	2.0	3.0	000.2555507
2.5	1.5	1.0	0.5	3.0	2.5	1.5	4.0	0.5	2.0	5.0	001.6116474
2.5	1.5	1.0	0.5	3.0	3.5	0.5	3.0	0.5	3.0	2.0	000.5598831
2.5	1.5	1.0	0.5	3.0	3.5	0.5	3.0	0.5	3.0	4.0	000.5714284
2.5	1.5	1.0	0.5	3.0	3.5	0.5	4.0	0.5	4.0	3.0	-000.6505997
2.5	1.5	1.0	0.5	3.0	3.5	0.5	4.0	0.5	4.0	5.0	-000.6564880
2.5	1.5	1.0	0.5	3.0	3.5	1.5	2.0	0.5	4.0	1.0	001.6561572
2.5	1.5	1.0	0.5	3.0	3.5	1.5	2.0	0.5	4.0	3.0	000.2213129
2.5	1.5	1.0	0.5	3.0	3.5	1.5	3.0	0.5	3.0	2.0	-000.1616246
2.5	1.5	1.0	0.5	3.0	3.5	1.5	3.0	0.5	3.0	4.0	-000.1649573
2.5	1.5	1.0	0.5	3.0	3.5	1.5	4.0	0.5	4.0	3.0	000.6048431
2.5	1.5	1.0	0.5	3.0	3.5	1.5	4.0	0.5	4.0	5.0	000.6103164
2.5	1.5	1.0	0.5	3.0	3.5	1.5	5.0	0.5	3.0	4.0	000.3286166
2.5	1.5	1.0	0.5	3.0	3.5	1.5	5.0	0.5	3.0	6.0	001.8868159
2.5	1.5	1.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	3.0	000.6506001
2.5	1.5	1.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	5.0	000.6564879

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	1.0 0.5 3.0 4.5 0.5	5.0 0.5	5.0 4.0	-000.7272726
2.5	1.5	1.0 0.5 3.0 4.5 0.5	5.0 0.5	5.0 6.0	-000.7307603
2.5	1.5	1.0 0.5 3.0 4.5 1.5	3.0 0.5	5.0 2.0	002.0203054
2.5	1.5	1.0 0.5 3.0 4.5 1.5	3.0 0.5	5.0 4.0	000.3299139
2.5	1.5	1.0 0.5 3.0 4.5 1.5	4.0 0.5	4.0 3.0	-000.0980819
2.5	1.5	1.0 0.5 3.0 4.5 1.5	4.0 0.5	4.0 5.0	-000.0989688
2.5	1.5	1.0 0.5 3.0 4.5 1.5	5.0 0.5	5.0 4.0	000.5938158
2.5	1.5	1.0 0.5 3.0 4.5 1.5	5.0 0.5	5.0 6.0	000.5966637
2.5	1.5	1.0 0.5 3.0 4.5 1.5	6.0 0.5	4.0 5.0	000.3875915
2.5	1.5	1.0 0.5 3.0 4.5 1.5	6.0 0.5	4.0 7.0	002.1256890
2.5	1.5	1.0 1.5 1.0 0.5 0.5	1.0 1.5	1.0 2.0	000.2529822
2.5	1.5	1.0 1.5 1.0 0.5 1.5	1.0 1.5	1.0 2.0	-000.7155417
2.5	1.5	1.0 1.5 1.0 0.5 1.5	2.0 1.5	2.0 3.0	-000.6414270
2.5	1.5	1.0 1.5 1.0 1.5 0.5	1.0 1.5	1.0 2.0	000.5600000
2.5	1.5	1.0 1.5 1.0 1.5 0.5	1.0 1.5	3.0 2.0	-000.0800000
2.5	1.5	1.0 1.5 1.0 1.5 0.5	2.0 1.5	0.0 1.0	-000.4000000
2.5	1.5	1.0 1.5 1.0 1.5 0.5	2.0 1.5	2.0 1.0	000.0800000
2.5	1.5	1.0 1.5 1.0 1.5 0.5	2.0 1.5	2.0 3.0	000.5131415
2.5	1.5	1.0 1.5 1.0 1.5 1.5	0.0 1.5	0.0 1.0	-001.0000000
2.5	1.5	1.0 1.5 1.0 1.5 1.5	0.0 1.5	2.0 1.0	000.2000000
2.5	1.5	1.0 1.5 1.0 1.5 1.5	1.0 1.5	1.0 2.0	-000.6260990
2.5	1.5	1.0 1.5 1.0 1.5 1.5	1.0 1.5	3.0 2.0	000.0894427
2.5	1.5	1.0 1.5 1.0 1.5 1.5	2.0 1.5	0.0 1.0	000.6000000
2.5	1.5	1.0 1.5 1.0 1.5 1.5	2.0 1.5	2.0 1.0	-000.1199999
2.5	1.5	1.0 1.5 1.0 1.5 1.5	2.0 1.5	2.0 3.0	-000.7697123
2.5	1.5	1.0 1.5 1.0 1.5 1.5	3.0 1.5	1.0 2.0	000.2683281
2.5	1.5	1.0 1.5 1.0 1.5 1.5	3.0 1.5	3.0 2.0	-000.0383326
2.5	1.5	1.0 1.5 1.0 1.5 1.5	3.0 1.5	3.0 4.0	-001.0432810

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	1.0	1.5	1.0	2.5	0.5	2.0	1.5	2.0	1.0	000.8979977
2.5	1.5	1.0	1.5	1.0	2.5	0.5	2.0	1.5	2.0	3.0	000.6171428
2.5	1.5	1.0	1.5	1.0	2.5	0.5	2.0	1.5	4.0	3.0	-000.1399709
2.5	1.5	1.0	1.5	1.0	2.5	0.5	3.0	1.5	1.0	2.0	-000.3919183
2.5	1.5	1.0	1.5	1.0	2.5	0.5	3.0	1.5	3.0	2.0	000.2057143
2.5	1.5	1.0	1.5	1.0	2.5	0.5	3.0	1.5	3.0	4.0	000.6998541
2.5	1.5	1.0	1.5	1.0	2.5	1.5	1.0	1.5	1.0	2.0	000.0000000
2.5	1.5	1.0	1.5	1.0	2.5	1.5	1.0	1.5	3.0	2.0	000.0000000
2.5	1.5	1.0	1.5	1.0	2.5	1.5	2.0	1.5	2.0	1.0	-000.4800000
2.5	1.5	1.0	1.5	1.0	2.5	1.5	2.0	1.5	2.0	3.0	-000.3298765
2.5	1.5	1.0	1.5	1.0	2.5	1.5	2.0	1.5	4.0	3.0	000.0748174
2.5	1.5	1.0	1.5	1.0	2.5	1.5	3.0	1.5	1.0	2.0	000.4381780
2.5	1.5	1.0	1.5	1.0	2.5	1.5	3.0	1.5	3.0	2.0	-000.2299954
2.5	1.5	1.0	1.5	1.0	2.5	1.5	3.0	1.5	3.0	4.0	-000.7824606
2.5	1.5	1.0	1.5	1.0	2.5	1.5	4.0	1.5	2.0	3.0	000.3366788
2.5	1.5	1.0	1.5	1.0	2.5	1.5	4.0	1.5	4.0	3.0	-000.0763603
2.5	1.5	1.0	1.5	1.0	2.5	1.5	4.0	1.5	4.0	5.0	-001.3483997
2.5	1.5	1.0	1.5	1.0	3.5	0.5	3.0	1.5	3.0	2.0	001.0623038
2.5	1.5	1.0	1.5	1.0	3.5	0.5	3.0	1.5	3.0	4.0	000.6625723
2.5	1.5	1.0	1.5	1.0	3.5	0.5	3.0	1.5	5.0	4.0	-000.1885617
2.5	1.5	1.0	1.5	1.0	3.5	0.5	4.0	1.5	2.0	3.0	-000.4040611
2.5	1.5	1.0	1.5	1.0	3.5	0.5	4.0	1.5	4.0	3.0	000.3011691
2.5	1.5	1.0	1.5	1.0	3.5	0.5	4.0	1.5	4.0	5.0	000.8509054
2.5	1.5	1.0	1.5	1.0	3.5	1.5	2.0	1.5	2.0	1.0	001.5999999
2.5	1.5	1.0	1.5	1.0	3.5	1.5	2.0	1.5	2.0	3.0	000.1374483
2.5	1.5	1.0	1.5	1.0	3.5	1.5	2.0	1.5	4.0	3.0	-000.1024481
2.5	1.5	1.0	1.5	1.0	3.5	1.5	3.0	1.5	3.0	2.0	-000.3066607
2.5	1.5	1.0	1.5	1.0	3.5	1.5	3.0	1.5	3.0	4.0	-000.1912680

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	1.0 1.5 1.0 3.5 1.5	3.0 1.5	5.0 4.0	000.0544326
2.5	1.5	1.0 1.5 1.0 3.5 1.5	4.0 1.5	2.0 3.0	000.3756431
2.5	1.5	1.0 1.5 1.0 3.5 1.5	4.0 1.5	4.0 3.0	-000.2799878
2.5	1.5	1.0 1.5 1.0 3.5 1.5	4.0 1.5	4.0 5.0	-000.7910613
2.5	1.5	1.0 1.5 1.0 3.5 1.5	5.0 1.5	3.0 4.0	000.3810315
2.5	1.5	1.0 1.5 1.0 3.5 1.5	5.0 1.5	5.0 4.0	-000.1084381
2.5	1.5	1.0 1.5 1.0 3.5 1.5	5.0 1.5	5.0 6.0	-001.6010167
2.5	1.5	1.0 1.5 1.0 4.5 0.5	4.0 1.5	4.0 3.0	001.1818734
2.5	1.5	1.0 1.5 1.0 4.5 0.5	4.0 1.5	4.0 5.0	000.7046999
2.5	1.5	1.0 1.5 1.0 4.5 0.5	4.0 1.5	6.0 5.0	-000.2299836
2.5	1.5	1.0 1.5 1.0 4.5 0.5	5.0 1.5	3.0 4.0	-000.4216370
2.5	1.5	1.0 1.5 1.0 4.5 0.5	5.0 1.5	5.0 4.0	000.3794535
2.5	1.5	1.0 1.5 1.0 4.5 0.5	5.0 1.5	5.0 6.0	000.9804185
2.5	1.5	1.0 1.5 1.0 4.5 1.5	3.0 1.5	3.0 2.0	001.9166294
2.5	1.5	1.0 1.5 1.0 4.5 1.5	3.0 1.5	3.0 4.0	000.1912680
2.5	1.5	1.0 1.5 1.0 4.5 1.5	3.0 1.5	5.0 4.0	-000.1721326
2.5	1.5	1.0 1.5 1.0 4.5 1.5	4.0 1.5	4.0 3.0	-000.1781741
2.5	1.5	1.0 1.5 1.0 4.5 1.5	4.0 1.5	4.0 5.0	-000.1062370
2.5	1.5	1.0 1.5 1.0 4.5 1.5	4.0 1.5	6.0 5.0	000.0346714
2.5	1.5	1.0 1.5 1.0 4.5 1.5	5.0 1.5	3.0 4.0	000.3442652
2.5	1.5	1.0 1.5 1.0 4.5 1.5	5.0 1.5	5.0 4.0	-000.3098225
2.5	1.5	1.0 1.5 1.0 4.5 1.5	5.0 1.5	5.0 6.0	-000.8005085
2.5	1.5	1.0 1.5 1.0 4.5 1.5	6.0 1.5	4.0 5.0	000.4160563
2.5	1.5	1.0 1.5 1.0 4.5 1.5	6.0 1.5	6.0 5.0	-000.1357827
2.5	1.5	1.0 1.5 1.0 4.5 1.5	6.0 1.5	6.0 7.0	-001.8203319
2.5	1.5	1.0 1.5 2.0 0.5 0.5	1.0 1.5	1.0 2.0	-000.2065591
2.5	1.5	1.0 1.5 2.0 0.5 1.5	1.0 1.5	1.0 2.0	000.5842374
2.5	1.5	1.0 1.5 3.0 0.5 1.5	2.0 1.5	2.0 3.0	000.5237229

J_1 , S"	ℓ'_1 , S	ℓ_1 ;	J_2 , S'	ℓ'_2 , S	ℓ_2 ;	L	H
2.5	1.5	1.0	1.5	3.0	1.5	0.5	000.5225577
2.5	1.5	1.0	1.5	3.0	1.5	0.5	000.3919184
2.5	1.5	1.0	1.5	3.0	1.5	0.5	000.5237229
2.5	1.5	1.0	1.5	3.0	1.5	0.5	-000.3919183
2.5	1.5	1.0	1.5	3.0	1.5	0.5	000.1047445
2.5	1.5	1.0	1.5	3.0	1.5	1.5	-000.9797959
2.5	1.5	1.0	1.5	3.0	1.5	1.5	-000.5842373
2.5	1.5	1.0	1.5	3.0	1.5	1.5	-000.4381780
2.5	1.5	1.0	1.5	3.0	1.5	1.5	-000.7855844
2.5	1.5	1.0	1.5	3.0	1.5	1.5	000.5878775
2.5	1.5	1.0	1.5	3.0	1.5	1.5	-000.1571167
2.5	1.5	1.0	1.5	3.0	1.5	1.5	000.2503874
2.5	1.5	1.0	1.5	3.0	1.5	1.5	-000.6388765
2.5	1.5	1.0	1.5	3.0	1.5	1.5	000.1877904
2.5	1.5	1.0	1.5	3.0	1.5	1.5	000.6388764
2.5	1.5	1.0	1.5	3.0	2.5	0.5	000.8379566
2.5	1.5	1.0	1.5	3.0	2.5	0.5	000.4759006
2.5	1.5	1.0	1.5	3.0	2.5	0.5	000.6414268
2.5	1.5	1.0	1.5	3.0	2.5	0.5	000.5142853
2.5	1.5	1.0	1.5	3.0	2.5	0.5	000.2057143
2.5	1.5	1.0	1.5	3.0	2.5	0.5	000.6998541
2.5	1.5	1.0	1.5	3.0	2.5	0.5	-000.3079357
2.5	1.5	1.0	1.5	3.0	2.5	0.5	000.2857141
2.5	1.5	1.0	1.5	3.0	2.5	1.5	000.0000000
2.5	1.5	1.0	1.5	3.0	2.5	1.5	000.0000000
2.5	1.5	1.0	1.5	3.0	2.5	1.5	-000.4479065
2.5	1.5	1.0	1.5	3.0	2.5	1.5	-000.2543797
2.5	1.5	1.0	1.5	3.0	2.5	1.5	-000.3428568

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
2.5	1.5	1.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	3.0	-000.2748970
2.5	1.5	1.0	1.5	3.0	2.5	1.5	3.0	1.5	1.0	2.0	-000.2299954
2.5	1.5	1.0	1.5	3.0	2.5	1.5	3.0	1.5	1.0	4.0	-000.7824606
2.5	1.5	1.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	2.0	000.3442827
2.5	1.5	1.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	4.0	-000.3194382
2.5	1.5	1.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	3.0	000.2596249
2.5	1.5	1.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	5.0	-000.9631426
2.5	1.5	1.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	3.0	000.2805658
2.5	1.5	1.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	5.0	000.7077624
2.5	1.5	1.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	2.0	000.9396482
2.5	1.5	1.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	4.0	000.4426263
2.5	1.5	1.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	2.0	000.8081220
2.5	1.5	1.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	4.0	000.5938455
2.5	1.5	1.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	3.0	000.3299144
2.5	1.5	1.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	5.0	000.8322502
2.5	1.5	1.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	3.0	-000.2459031
2.5	1.5	1.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	5.0	000.4218194
2.5	1.5	1.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	1.0	-000.1399707
2.5	1.5	1.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	3.0	-000.1122264
2.5	1.5	1.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	1.0	001.5649215
2.5	1.5	1.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	3.0	000.0836483
2.5	1.5	1.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	2.0	-000.2712526
2.5	1.5	1.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	4.0	-000.1277755
2.5	1.5	1.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	2.0	-000.2332846
2.5	1.5	1.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	4.0	-000.1714280
2.5	1.5	1.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	3.0	-000.3067113
2.5	1.5	1.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	5.0	-000.7737175
2.5	1.5	1.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	3.0	000.2286086

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	1.0 1.5 3.0 3.5 1.5	4.0	1.5 4.0 5.0	-000.3921525
2.5	1.5	1.0 1.5 3.0 3.5 1.5	5.0	1.5 3.0 4.0	000.2545451
2.5	1.5	1.0 1.5 3.0 3.5 1.5	5.0	1.5 3.0 6.0	-001.2179345
2.5	1.5	1.0 1.5 3.0 3.5 1.5	5.0	1.5 5.0 4.0	000.3415082
2.5	1.5	1.0 1.5 3.0 3.5 1.5	5.0	1.5 5.0 6.0	000.7625466
2.5	1.5	1.0 1.5 3.0 4.5 0.5	4.0	1.5 4.0 3.0	001.0088591
2.5	1.5	1.0 1.5 3.0 4.5 0.5	4.0	1.5 4.0 5.0	000.4204734
2.5	1.5	1.0 1.5 3.0 4.5 0.5	4.0	1.5 6.0 3.0	000.9304840
2.5	1.5	1.0 1.5 3.0 4.5 0.5	4.0	1.5 6.0 5.0	000.6572331
2.5	1.5	1.0 1.5 3.0 4.5 0.5	5.0	1.5 3.0 4.0	000.4225069
2.5	1.5	1.0 1.5 3.0 4.5 0.5	5.0	1.5 3.0 6.0	000.9434077
2.5	1.5	1.0 1.5 3.0 4.5 0.5	5.0	1.5 5.0 4.0	-000.1991720
2.5	1.5	1.0 1.5 3.0 4.5 0.5	5.0	1.5 5.0 6.0	000.5336714
2.5	1.5	1.0 1.5 3.0 4.5 1.5	3.0	1.5 3.0 2.0	-000.2608198
2.5	1.5	1.0 1.5 3.0 4.5 1.5	3.0	1.5 3.0 4.0	-000.1916629
2.5	1.5	1.0 1.5 3.0 4.5 1.5	3.0	1.5 5.0 2.0	001.8442775
2.5	1.5	1.0 1.5 3.0 4.5 1.5	3.0	1.5 5.0 4.0	000.0903504
2.5	1.5	1.0 1.5 3.0 4.5 1.5	4.0	1.5 4.0 3.0	-000.1520913
2.5	1.5	1.0 1.5 3.0 4.5 1.5	4.0	1.5 4.0 5.0	-000.0633881
2.5	1.5	1.0 1.5 3.0 4.5 1.5	4.0	1.5 6.0 3.0	-000.1402758
2.5	1.5	1.0 1.5 3.0 4.5 1.5	4.0	1.5 6.0 5.0	-000.0990812
2.5	1.5	1.0 1.5 3.0 4.5 1.5	5.0	1.5 3.0 4.0	-000.3449750
2.5	1.5	1.0 1.5 3.0 4.5 1.5	5.0	1.5 3.0 6.0	-000.7702896
2.5	1.5	1.0 1.5 3.0 4.5 1.5	5.0	1.5 5.0 4.0	000.1626225
2.5	1.5	1.0 1.5 3.0 4.5 1.5	5.0	1.5 5.0 6.0	-000.4357409
2.5	1.5	1.0 1.5 3.0 4.5 1.5	6.0	1.5 4.0 5.0	000.2482483
2.5	1.5	1.0 1.5 3.0 4.5 1.5	6.0	1.5 4.0 7.0	-001.4331393
2.5	1.5	1.0 1.5 3.0 4.5 1.5	6.0	1.5 6.0 5.0	000.3880307

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	1.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	7.0	000.8107060
2.5	1.5	2.0	0.5	2.0	0.5	0.5	0.0	0.5	0.0	2.0	-001.1155467
2.5	1.5	2.0	0.5	2.0	0.5	0.5	1.0	0.5	1.0	3.0	-000.7619047
2.5	1.5	2.0	0.5	2.0	0.5	1.5	1.0	0.5	1.0	3.0	000.1346870
2.5	1.5	2.0	0.5	2.0	0.5	1.5	2.0	0.5	0.0	2.0	000.4507489
2.5	1.5	2.0	0.5	2.0	1.5	0.5	1.0	0.5	1.0	1.0	-001.4966629
2.5	1.5	2.0	0.5	2.0	1.5	0.5	1.0	0.5	1.0	3.0	-000.8380952
2.5	1.5	2.0	0.5	2.0	1.5	0.5	2.0	0.5	2.0	2.0	000.0227662
2.5	1.5	2.0	0.5	2.0	1.5	0.5	2.0	0.5	2.0	4.0	-001.1153142
2.5	1.5	2.0	0.5	2.0	1.5	1.5	0.0	0.5	2.0	2.0	000.0796819
2.5	1.5	2.0	0.5	2.0	1.5	1.5	1.0	0.5	1.0	1.0	-000.3346639
2.5	1.5	2.0	0.5	2.0	1.5	1.5	1.0	0.5	1.0	3.0	000.0681467
2.5	1.5	2.0	0.5	2.0	1.5	1.5	2.0	0.5	2.0	2.0	-000.2845781
2.5	1.5	2.0	0.5	2.0	1.5	1.5	2.0	0.5	2.0	4.0	000.2788286
2.5	1.5	2.0	0.5	2.0	1.5	1.5	3.0	0.5	1.0	1.0	000.5259005
2.5	1.5	2.0	0.5	2.0	1.5	1.5	3.0	0.5	1.0	3.0	000.5622112
2.5	1.5	2.0	0.5	2.0	2.5	0.5	2.0	0.5	2.0	2.0	-000.8195853
2.5	1.5	2.0	0.5	2.0	2.5	0.5	2.0	0.5	2.0	4.0	-000.8364857
2.5	1.5	2.0	0.5	2.0	2.5	0.5	3.0	0.5	3.0	1.0	000.2748973
2.5	1.5	2.0	0.5	2.0	2.5	0.5	3.0	0.5	3.0	3.0	000.0761905
2.5	1.5	2.0	0.5	2.0	2.5	0.5	3.0	0.5	3.0	5.0	-001.3728569
2.5	1.5	2.0	0.5	2.0	2.5	1.5	1.0	0.5	3.0	1.0	000.2342157
2.5	1.5	2.0	0.5	2.0	2.5	1.5	1.0	0.5	3.0	3.0	000.2503874
2.5	1.5	2.0	0.5	2.0	2.5	1.5	2.0	0.5	2.0	2.0	000.0000000
2.5	1.5	2.0	0.5	2.0	2.5	1.5	2.0	0.5	2.0	4.0	000.0000000
2.5	1.5	2.0	0.5	2.0	2.5	1.5	3.0	0.5	3.0	1.0	-000.3278338
2.5	1.5	2.0	0.5	2.0	2.5	1.5	3.0	0.5	3.0	3.0	-000.2896242
2.5	1.5	2.0	0.5	2.0	2.5	1.5	3.0	0.5	3.0	5.0	000.3837249

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	2.0	0.5	2.0	2.5	1.5	4.0	0.5	2.0	2.0	000.6259685
2.5	1.5	2.0	0.5	2.0	2.5	1.5	4.0	0.5	2.0	4.0	000.6388765
2.5	1.5	2.0	0.5	2.0	3.5	0.5	3.0	0.5	3.0	1.0	001.2217653
2.5	1.5	2.0	0.5	2.0	3.5	0.5	3.0	0.5	3.0	3.0	-000.6984123
2.5	1.5	2.0	0.5	2.0	3.5	0.5	3.0	0.5	3.0	5.0	-000.8694761
2.5	1.5	2.0	0.5	2.0	3.5	0.5	4.0	0.5	4.0	2.0	000.3946148
2.5	1.5	2.0	0.5	2.0	3.5	0.5	4.0	0.5	4.0	4.0	000.1267402
2.5	1.5	2.0	0.5	2.0	3.5	0.5	4.0	0.5	4.0	6.0	-001.5847766
2.5	1.5	2.0	0.5	2.0	3.5	1.5	2.0	0.5	4.0	2.0	000.3614033
2.5	1.5	2.0	0.5	2.0	3.5	1.5	2.0	0.5	4.0	4.0	000.3688549
2.5	1.5	2.0	0.5	2.0	3.5	1.5	3.0	0.5	3.0	1.0	000.5290401
2.5	1.5	2.0	0.5	2.0	3.5	1.5	3.0	0.5	3.0	3.0	000.0183288
2.5	1.5	2.0	0.5	2.0	3.5	1.5	3.0	0.5	3.0	5.0	-000.0528408
2.5	1.5	2.0	0.5	2.0	3.5	1.5	4.0	0.5	4.0	2.0	-000.3591648
2.5	1.5	2.0	0.5	2.0	3.5	1.5	4.0	0.5	4.0	4.0	-000.2849256
2.5	1.5	2.0	0.5	2.0	3.5	1.5	4.0	0.5	4.0	6.0	000.4687830
2.5	1.5	2.0	0.5	2.0	3.5	1.5	5.0	0.5	3.0	3.0	000.6967269
2.5	1.5	2.0	0.5	2.0	3.5	1.5	5.0	0.5	3.0	5.0	000.7030323
2.5	1.5	2.0	0.5	2.0	4.5	0.5	4.0	0.5	4.0	2.0	001.5177505
2.5	1.5	2.0	0.5	2.0	4.5	0.5	4.0	0.5	4.0	4.0	-000.6590495
2.5	1.5	2.0	0.5	2.0	4.5	0.5	4.0	0.5	4.0	6.0	-000.9112464
2.5	1.5	2.0	0.5	2.0	4.5	0.5	5.0	0.5	5.0	3.0	000.4906205
2.5	1.5	2.0	0.5	2.0	4.5	0.5	5.0	0.5	5.0	5.0	000.1724869
2.5	1.5	2.0	0.5	2.0	4.5	0.5	5.0	0.5	5.0	7.0	-001.7691060
2.5	1.5	2.0	0.5	2.0	4.5	1.5	3.0	0.5	5.0	3.0	000.4582143
2.5	1.5	2.0	0.5	2.0	4.5	1.5	3.0	0.5	5.0	5.0	000.4623610
2.5	1.5	2.0	0.5	2.0	4.5	1.5	4.0	0.5	4.0	2.0	000.6292264
2.5	1.5	2.0	0.5	2.0	4.5	1.5	4.0	0.5	4.0	4.0	000.0076421

J_1 , S"	l_1' , S	l_1 ; J_2 , S'	l_2' , S	l_2 ; L	H
2.5	1.5	2.0 0.5 2.0 4.5 1.5	4.0	0.5 4.0 6.0	-000.0955660
2.5	1.5	2.0 0.5 2.0 4.5 1.5	5.0	0.5 5.0 3.0	-000.3770250
2.5	1.5	2.0 0.5 2.0 4.5 1.5	5.0	0.5 5.0 5.0	-000.2816695
2.5	1.5	2.0 0.5 2.0 4.5 1.5	5.0	0.5 5.0 7.0	000.5416752
2.5	1.5	2.0 0.5 2.0 4.5 1.5	6.0	0.5 4.0 4.0	000.7565903
2.5	1.5	2.0 0.5 2.0 4.5 1.5	6.0	0.5 4.0 6.0	000.7602195
2.5	1.5	2.0 1.5 2.0 0.5 0.5	0.0	1.5 2.0 2.0	000.4216370
2.5	1.5	2.0 1.5 2.0 0.5 0.5	1.0	1.5 1.0 3.0	000.2879729
2.5	1.5	2.0 1.5 2.0 0.5 1.5	1.0	1.5 1.0 3.0	-000.0509069
2.5	1.5	2.0 1.5 2.0 0.5 1.5	2.0	1.5 2.0 2.0	-000.1703670
2.5	1.5	2.0 1.5 2.0 1.5 0.5	1.0	1.5 1.0 1.0	-001.2521980
2.5	1.5	2.0 1.5 2.0 1.5 0.5	1.0	1.5 1.0 3.0	000.8013723
2.5	1.5	2.0 1.5 2.0 1.5 0.5	1.0	1.5 3.0 1.0	000.1788854
2.5	1.5	2.0 1.5 2.0 1.5 0.5	1.0	1.5 3.0 3.0	000.6010291
2.5	1.5	2.0 1.5 2.0 1.5 0.5	2.0	1.5 0.0 2.0	000.0425917
2.5	1.5	2.0 1.5 2.0 1.5 0.5	2.0	1.5 2.0 2.0	000.0304226
2.5	1.5	2.0 1.5 2.0 1.5 0.5	2.0	1.5 2.0 4.0	000.5961605
2.5	1.5	2.0 1.5 2.0 1.5 1.5	0.0	1.5 0.0 2.0	000.1490712
2.5	1.5	2.0 1.5 2.0 1.5 1.5	0.0	1.5 2.0 2.0	000.1064794
2.5	1.5	2.0 1.5 2.0 1.5 1.5	1.0	1.5 1.0 1.0	-000.2800000
2.5	1.5	2.0 1.5 2.0 1.5 1.5	1.0	1.5 1.0 3.0	-000.0651607
2.5	1.5	2.0 1.5 2.0 1.5 1.5	1.0	1.5 3.0 1.0	000.0399999
2.5	1.5	2.0 1.5 2.0 1.5 1.5	1.0	1.5 3.0 3.0	-000.0488704
2.5	1.5	2.0 1.5 2.0 1.5 1.5	2.0	1.5 0.0 2.0	-000.5323971
2.5	1.5	2.0 1.5 2.0 1.5 1.5	2.0	1.5 2.0 2.0	-000.3802836
2.5	1.5	2.0 1.5 2.0 1.5 1.5	2.0	1.5 2.0 4.0	-000.1490400
2.5	1.5	2.0 1.5 2.0 1.5 1.5	3.0	1.5 1.0 1.0	000.4400000
2.5	1.5	2.0 1.5 2.0 1.5 1.5	3.0	1.5 1.0 3.0	-000.5375768

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	2.0 1.5	2.0 1.5	1.0	-000.0628572
2.5	1.5	2.0 1.5	2.0 1.5	3.0	-000.4031825
2.5	1.5	2.0 1.5	2.0 2.5 0.5	2.0	-000.2927091
2.5	1.5	2.0 1.5	2.0 2.5 0.5	2.0 4.0	000.9559836
2.5	1.5	2.0 1.5	2.0 2.5 0.5	2.0 4.0 2.0	000.2150961
2.5	1.5	2.0 1.5	2.0 2.5 0.5	2.0 4.0 4.0	000.7317724
2.5	1.5	2.0 1.5	2.0 2.5 0.5	3.0 1.0 1.0	000.5633717
2.5	1.5	2.0 1.5	2.0 2.5 0.5	3.0 1.0 3.0	000.1003781
2.5	1.5	2.0 1.5	2.0 2.5 0.5	3.0 1.0	000.5257038
2.5	1.5	2.0 1.5	2.0 2.5 0.5	3.0 3.0	000.0774050
2.5	1.5	2.0 1.5	2.0 2.5 0.5	3.0 5.0	000.8204391
2.5	1.5	2.0 1.5	2.0 2.5 1.5	1.0 1.0 1.0	000.4800000
2.5	1.5	2.0 1.5	2.0 2.5 1.5	1.0 1.0 3.0	000.3298765
2.5	1.5	2.0 1.5	2.0 2.5 1.5	1.0 3.0 1.0	000.4479065
2.5	1.5	2.0 1.5	2.0 2.5 1.5	1.0 3.0 3.0	000.2543797
2.5	1.5	2.0 1.5	2.0 2.5 1.5	2.0 2.0 2.0	-000.0000000
2.5	1.5	2.0 1.5	2.0 2.5 1.5	2.0 2.0 4.0	000.0000000
2.5	1.5	2.0 1.5	2.0 2.5 1.5	2.0 4.0 2.0	-000.0000000
2.5	1.5	2.0 1.5	2.0 2.5 1.5	2.0 4.0 4.0	000.0000000
2.5	1.5	2.0 1.5	2.0 2.5 1.5	3.0 1.0 1.0	-000.6718600
2.5	1.5	2.0 1.5	2.0 2.5 1.5	3.0 1.0 3.0	-000.3815694
2.5	1.5	2.0 1.5	2.0 2.5 1.5	3.0 3.0 1.0	-000.6269388
2.5	1.5	2.0 1.5	2.0 2.5 1.5	3.0 3.0 3.0	-000.2942418
2.5	1.5	2.0 1.5	2.0 2.5 1.5	3.0 3.0 5.0	-000.2293194
2.5	1.5	2.0 1.5	2.0 2.5 1.5	4.0 2.0 2.0	000.2235600
2.5	1.5	2.0 1.5	2.0 2.5 1.5	4.0 2.0 4.0	-000.7301443
2.5	1.5	2.0 1.5	2.0 2.5 1.5	4.0 2.0	-000.1642822
2.5	1.5	2.0 1.5	2.0 2.5 1.5	4.0 4.0 4.0	-000.5589000

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	2.0 1.5	2.0 3.5 0.5	3.0 1.5 3.0 1.0	001.1311350
2.5	1.5	2.0 1.5	2.0 3.5 0.5	3.0 1.5 3.0 3.0	-000.1077675
2.5	1.5	2.0 1.5	2.0 3.5 0.5	3.0 1.5 3.0 5.0	001.0733042
2.5	1.5	2.0 1.5	2.0 3.5 0.5	3.0 1.5 5.0 3.0	000.2409754
2.5	1.5	2.0 1.5	2.0 3.5 0.5	3.0 1.5 5.0 5.0	000.8399933
2.5	1.5	2.0 1.5	2.0 3.5 0.5	4.0 1.5 2.0 2.0	000.7175183
2.5	1.5	2.0 1.5	2.0 3.5 0.5	4.0 1.5 2.0 4.0	000.1408299
2.5	1.5	2.0 1.5	2.0 3.5 0.5	4.0 1.5 4.0 2.0	000.7130755
2.5	1.5	2.0 1.5	2.0 3.5 0.5	4.0 1.5 4.0 4.0	000.1087853
2.5	1.5	2.0 1.5	2.0 3.5 0.5	4.0 1.5 4.0 6.0	001.0023007
2.5	1.5	2.0 1.5	2.0 3.5 1.5	2.0 1.5 2.0 2.0	000.6571301
2.5	1.5	2.0 1.5	2.0 3.5 1.5	2.0 1.5 2.0 4.0	000.4098600
2.5	1.5	2.0 1.5	2.0 3.5 1.5	2.0 1.5 4.0 2.0	000.6530614
2.5	1.5	2.0 1.5	2.0 3.5 1.5	2.0 1.5 4.0 4.0	000.3166004
2.5	1.5	2.0 1.5	2.0 3.5 1.5	3.0 1.5 3.0 1.0	000.4897959
2.5	1.5	2.0 1.5	2.0 3.5 1.5	3.0 1.5 3.0 3.0	000.0028277
2.5	1.5	2.0 1.5	2.0 3.5 1.5	3.0 1.5 3.0 5.0	000.0652284
2.5	1.5	2.0 1.5	2.0 3.5 1.5	3.0 1.5 5.0 3.0	-000.0063239
2.5	1.5	2.0 1.5	2.0 3.5 1.5	3.0 1.5 5.0 5.0	000.0510492
2.5	1.5	2.0 1.5	2.0 3.5 1.5	4.0 1.5 2.0 2.0	-000.6530614
2.5	1.5	2.0 1.5	2.0 3.5 1.5	4.0 1.5 2.0 4.0	-000.3166004
2.5	1.5	2.0 1.5	2.0 3.5 1.5	4.0 1.5 4.0 2.0	-000.6490170
2.5	1.5	2.0 1.5	2.0 3.5 1.5	4.0 1.5 4.0 4.0	-000.2445613
2.5	1.5	2.0 1.5	2.0 3.5 1.5	4.0 1.5 4.0 6.0	-000.2964841
2.5	1.5	2.0 1.5	2.0 3.5 1.5	5.0 1.5 3.0 3.0	000.1075067
2.5	1.5	2.0 1.5	2.0 3.5 1.5	5.0 1.5 3.0 5.0	-000.8678421
2.5	1.5	2.0 1.5	2.0 3.5 1.5	5.0 1.5 5.0 3.0	-000.2403931
2.5	1.5	2.0 1.5	2.0 3.5 1.5	5.0 1.5 5.0 5.0	-000.6791939

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	2.0	001.3453416
2.5	1.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	4.0	-000.0265538
2.5	1.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	6.0	001.1748855
2.5	1.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	6.0	4.0	000.2628692
2.5	1.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	6.0	6.0	000.9346151
2.5	1.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	3.0	3.0	000.8327477
2.5	1.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	3.0	5.0	000.1729995
2.5	1.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	5.0	3.0	000.8564974
2.5	1.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	5.0	5.0	000.1317393
2.5	1.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	5.0	7.0	001.1581512
2.5	1.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	3.0	3.0	000.7777442
2.5	1.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	3.0	5.0	000.4637354
2.5	1.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	5.0	3.0	000.7999251
2.5	1.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	5.0	5.0	000.3531337
2.5	1.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	2.0	000.5577487
2.5	1.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	4.0	000.0003078
2.5	1.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	6.0	000.1232140
2.5	1.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	6.0	4.0	-000.0030477
2.5	1.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	6.0	6.0	000.0980158
2.5	1.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	3.0	3.0	-000.6399403
2.5	1.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	3.0	5.0	-000.2825072
2.5	1.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	3.0	-000.6581903
2.5	1.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	5.0	-000.2151296
2.5	1.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	7.0	-000.3546088
2.5	1.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	4.0	000.0304835
2.5	1.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	6.0	-000.9801641
2.5	1.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	4.0	-000.3017742
2.5	1.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	6.0	-000.7797161

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	2.0 1.5	4.0	0.5 0.5	0.0 1.5 2.0 2.0 -001.0327955
2.5	1.5	2.0 1.5	4.0	0.5 0.5	1.0 1.5 1.0 3.0 -000.7053868
2.5	1.5	2.0 1.5	4.0	0.5 1.5	1.0 1.5 1.0 3.0 000.1246958
2.5	1.5	2.0 1.5	4.0	0.5 1.5	2.0 1.5 2.0 2.0 000.4173123
2.5	1.5	2.0 1.5	4.0	1.5 0.5	1.0 1.5 1.0 3.0 000.6134229
2.5	1.5	2.0 1.5	4.0	1.5 0.5	1.0 1.5 3.0 1.0 -001.4605935
2.5	1.5	2.0 1.5	4.0	1.5 0.5	1.0 1.5 3.0 3.0 -000.6134229
2.5	1.5	2.0 1.5	4.0	1.5 0.5	2.0 1.5 0.0 4.0 000.8518353
2.5	1.5	2.0 1.5	4.0	1.5 0.5	2.0 1.5 2.0 2.0 000.0298079
2.5	1.5	2.0 1.5	4.0	1.5 0.5	2.0 1.5 2.0 4.0 -000.6084538
2.5	1.5	2.0 1.5	4.0	1.5 1.5	0.0 1.5 2.0 2.0 000.1043280
2.5	1.5	2.0 1.5	4.0	1.5 1.5	1.0 1.5 1.0 3.0 -000.0498783
2.5	1.5	2.0 1.5	4.0	1.5 1.5	1.0 1.5 3.0 1.0 -000.3265986
2.5	1.5	2.0 1.5	4.0	1.5 1.5	1.0 1.5 3.0 3.0 000.0498784
2.5	1.5	2.0 1.5	4.0	1.5 1.5	2.0 1.5 0.0 4.0 -000.2129588
2.5	1.5	2.0 1.5	4.0	1.5 1.5	2.0 1.5 2.0 2.0 -000.3726002
2.5	1.5	2.0 1.5	4.0	1.5 1.5	2.0 1.5 2.0 4.0 000.1521134
2.5	1.5	2.0 1.5	4.0	1.5 1.5	3.0 1.5 1.0 3.0 -000.4114964
2.5	1.5	2.0 1.5	4.0	1.5 1.5	3.0 1.5 3.0 1.0 000.5132263
2.5	1.5	2.0 1.5	4.0	1.5 1.5	3.0 1.5 3.0 3.0 000.4114962
2.5	1.5	2.0 1.5	4.0	2.5 0.5	2.0 1.5 2.0 2.0 000.2150961
2.5	1.5	2.0 1.5	4.0	2.5 0.5	2.0 1.5 2.0 4.0 000.7317724
2.5	1.5	2.0 1.5	4.0	2.5 0.5	2.0 1.5 4.0 2.0 -000.7317725
2.5	1.5	2.0 1.5	4.0	2.5 0.5	2.0 1.5 4.0 4.0 -000.5377410
2.5	1.5	2.0 1.5	4.0	2.5 0.5	3.0 1.5 1.0 3.0 -000.0227661
2.5	1.5	2.0 1.5	4.0	2.5 0.5	3.0 1.5 1.0 5.0 001.1486145
2.5	1.5	2.0 1.5	4.0	2.5 0.5	3.0 1.5 3.0 1.0 000.4024082
2.5	1.5	2.0 1.5	4.0	2.5 0.5	3.0 1.5 3.0 3.0 000.0836485

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	2.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	5.0	-000.6028970
2.5	1.5	2.0	1.5	4.0	2.5	1.5	1.0	1.5	1.0	3.0	-000.0748174
2.5	1.5	2.0	1.5	4.0	2.5	1.5	1.0	1.5	3.0	1.0	000.3428568
2.5	1.5	2.0	1.5	4.0	2.5	1.5	1.0	1.5	3.0	3.0	000.2748970
2.5	1.5	2.0	1.5	4.0	2.5	1.5	2.0	1.5	2.0	2.0	-000.0000000
2.5	1.5	2.0	1.5	4.0	2.5	1.5	2.0	1.5	2.0	4.0	000.0000000
2.5	1.5	2.0	1.5	4.0	2.5	1.5	2.0	1.5	4.0	2.0	-000.0000000
2.5	1.5	2.0	1.5	4.0	2.5	1.5	2.0	1.5	4.0	4.0	000.0000000
2.5	1.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	1.0	3.0	000.0865416
2.5	1.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	1.0	5.0	-000.3210474
2.5	1.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	1.0	-000.4799000
2.5	1.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	3.0	-000.3179743
2.5	1.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	5.0	000.1685146
2.5	1.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	2.0	-000.1642822
2.5	1.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	4.0	-000.5589000
2.5	1.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	2.0	000.5589004
2.5	1.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	4.0	000.4107063
2.5	1.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	1.0	-000.0769640
2.5	1.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	3.0	000.2639746
2.5	1.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	5.0	000.8215772
2.5	1.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	1.0	001.2046772
2.5	1.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	3.0	-000.5902660
2.5	1.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	5.0	-000.5143890
2.5	1.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	2.0	-000.0488209
2.5	1.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	4.0	-000.0522666
2.5	1.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	6.0	001.3724566
2.5	1.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	2.0	000.5458345
2.5	1.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	4.0	000.1262215

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	6.0	-000.6137813
2.5	1.5	2.0	1.5	4.0	3.5	1.5	2.0	1.5	2.0	2.0	-000.0447121
2.5	1.5	2.0	1.5	4.0	3.5	1.5	2.0	1.5	2.0	4.0	-000.1521131
2.5	1.5	2.0	1.5	4.0	3.5	1.5	2.0	1.5	4.0	2.0	000.4998956
2.5	1.5	2.0	1.5	4.0	3.5	1.5	2.0	1.5	4.0	4.0	000.3673469
2.5	1.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	1.0	-000.0333261
2.5	1.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	3.0	-000.0069268
2.5	1.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	5.0	000.0499306
2.5	1.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	1.0	000.5216409
2.5	1.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	3.0	000.0154905
2.5	1.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	5.0	-000.0312612
2.5	1.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	2.0	000.0444346
2.5	1.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	4.0	000.1175015
2.5	1.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	6.0	-000.4059781
2.5	1.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	2.0	-000.4968004
2.5	1.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	4.0	-000.2837609
2.5	1.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	6.0	000.1815586
2.5	1.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	3.0	-000.2633375
2.5	1.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	5.0	-000.6643029
2.5	1.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	3.0	000.5888420
2.5	1.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	5.0	000.4159190
2.5	1.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	2.0	-000.1497902
2.5	1.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	4.0	000.2926953
2.5	1.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	6.0	000.8993336
2.5	1.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	2.0	000.1119551
2.5	1.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	4.0	-000.0405116
2.5	1.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	6.0	-000.0384097
2.5	1.5	2.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	3.0	-000.0927184

j_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	2.0 1.5 4.0 4.5 0.5	5.0	1.5 3.0 5.0	-000.0814921
2.5	1.5	2.0 1.5 4.0 4.5 0.5	5.0	1.5 3.0 7.0	001.5602049
2.5	1.5	2.0 1.5 4.0 4.5 0.5	5.0	1.5 5.0 3.0	000.6556192
2.5	1.5	2.0 1.5 4.0 4.5 0.5	5.0	1.5 5.0 5.0	000.1613464
2.5	1.5	2.0 1.5 4.0 4.5 0.5	5.0	1.5 5.0 7.0	-000.6304175
2.5	1.5	2.0 1.5 4.0 4.5 1.5	3.0	1.5 3.0 3.0	-000.0865936
2.5	1.5	2.0 1.5 4.0 4.5 1.5	3.0	1.5 3.0 5.0	-000.2184456
2.5	1.5	2.0 1.5 4.0 4.5 1.5	3.0	1.5 5.0 3.0	000.6123135
2.5	1.5	2.0 1.5 4.0 4.5 1.5	3.0	1.5 5.0 5.0	000.4324983
2.5	1.5	2.0 1.5 4.0 4.5 1.5	4.0	1.5 4.0 2.0	-000.0620986
2.5	1.5	2.0 1.5 4.0 4.5 1.5	4.0	1.5 4.0 4.0	-000.0033935
2.5	1.5	2.0 1.5 4.0 4.5 1.5	4.0	1.5 4.0 6.0	000.0943150
2.5	1.5	2.0 1.5 4.0 4.5 1.5	4.0	1.5 6.0 2.0	000.0464141
2.5	1.5	2.0 1.5 4.0 4.5 1.5	4.0	1.5 6.0 4.0	000.0004698
2.5	1.5	2.0 1.5 4.0 4.5 1.5	4.0	1.5 6.0 6.0	-000.0040281
2.5	1.5	2.0 1.5 4.0 4.5 1.5	5.0	1.5 3.0 3.0	000.0712516
2.5	1.5	2.0 1.5 4.0 4.5 1.5	5.0	1.5 3.0 5.0	000.1330761
2.5	1.5	2.0 1.5 4.0 4.5 1.5	5.0	1.5 3.0 7.0	-000.4777131
2.5	1.5	2.0 1.5 4.0 4.5 1.5	5.0	1.5 5.0 3.0	-000.5038221
2.5	1.5	2.0 1.5 4.0 4.5 1.5	5.0	1.5 5.0 5.0	-000.2634772
2.5	1.5	2.0 1.5 4.0 4.5 1.5	5.0	1.5 5.0 7.0	000.1930247
2.5	1.5	2.0 1.5 4.0 4.5 1.5	6.0	1.5 4.0 4.0	-000.3360141
2.5	1.5	2.0 1.5 4.0 4.5 1.5	6.0	1.5 4.0 6.0	-000.7502818
2.5	1.5	2.0 1.5 4.0 4.5 1.5	6.0	1.5 6.0 4.0	000.0465075
2.5	1.5	2.0 1.5 4.0 4.5 1.5	6.0	1.5 6.0 6.0	000.0320438
2.5	1.5	3.0 0.5 3.0 0.5 0.5	0.0	0.5 0.0 3.0	-000.7968191
2.5	1.5	3.0 0.5 3.0 0.5 0.5	1.0	0.5 1.0 2.0	-001.0666667
2.5	1.5	3.0 0.5 3.0 0.5 1.5	1.0	0.5 1.0 2.0	000.1885619

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	3.0	0.5	3.0	0.5	1.5	2.0	0.5	0.0	3.0	-000.1126872
2.5	1.5	3.0	0.5	3.0	1.5	0.5	1.0	0.5	1.0	2.0	-000.0761905
2.5	1.5	3.0	0.5	3.0	1.5	0.5	1.0	0.5	1.0	4.0	-001.1664236
2.5	1.5	3.0	0.5	3.0	1.5	0.5	2.0	0.5	2.0	1.0	-001.4310835
2.5	1.5	3.0	0.5	3.0	1.5	0.5	2.0	0.5	2.0	3.0	-000.7330734
2.5	1.5	3.0	0.5	3.0	1.5	1.5	0.0	0.5	2.0	3.0	-000.5577732
2.5	1.5	3.0	0.5	3.0	1.5	1.5	1.0	0.5	1.0	2.0	000.3407341
2.5	1.5	3.0	0.5	3.0	1.5	1.5	1.0	0.5	1.0	4.0	-000.2608200
2.5	1.5	3.0	0.5	3.0	1.5	1.5	2.0	0.5	2.0	1.0	000.3577708
2.5	1.5	3.0	0.5	3.0	1.5	1.5	2.0	0.5	2.0	3.0	-000.0159365
2.5	1.5	3.0	0.5	3.0	1.5	1.5	3.0	0.5	1.0	2.0	-000.2555507
2.5	1.5	3.0	0.5	3.0	1.5	1.5	3.0	0.5	1.0	4.0	-000.2608203
2.5	1.5	3.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	1.0	000.1533304
2.5	1.5	3.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	3.0	-000.0637453
2.5	1.5	3.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	5.0	-001.4357683
2.5	1.5	3.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	2.0	-000.6857142
2.5	1.5	3.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	4.0	-000.6998540
2.5	1.5	3.0	0.5	3.0	2.5	1.5	1.0	0.5	3.0	2.0	-000.6259684
2.5	1.5	3.0	0.5	3.0	2.5	1.5	1.0	0.5	3.0	4.0	-000.6388764
2.5	1.5	3.0	0.5	3.0	2.5	1.5	2.0	0.5	2.0	1.0	000.3278338
2.5	1.5	3.0	0.5	3.0	2.5	1.5	2.0	0.5	2.0	3.0	000.2896242
2.5	1.5	3.0	0.5	3.0	2.5	1.5	2.0	0.5	2.0	5.0	-000.3837249
2.5	1.5	3.0	0.5	3.0	2.5	1.5	3.0	0.5	3.0	2.0	000.0000000
2.5	1.5	3.0	0.5	3.0	2.5	1.5	3.0	0.5	3.0	4.0	-000.0000000
2.5	1.5	3.0	0.5	3.0	2.5	1.5	4.0	0.5	2.0	1.0	-000.3345942
2.5	1.5	3.0	0.5	3.0	2.5	1.5	4.0	0.5	2.0	3.0	-000.4173122
2.5	1.5	3.0	0.5	3.0	2.5	1.5	4.0	0.5	2.0	5.0	-000.3759722
2.5	1.5	3.0	0.5	3.0	3.5	0.5	3.0	0.5	3.0	2.0	000.2412695

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	3.0 0.5	3.0 0.5	3.0 4.0	-000.0424154
2.5	1.5	3.0 0.5	3.0 0.5	3.0 6.0	-001.6573993
2.5	1.5	3.0 0.5	3.0 0.5	4.0 1.0	001.2777529
2.5	1.5	3.0 0.5	3.0 0.5	4.0 3.0	-000.5312122
2.5	1.5	3.0 0.5	3.0 0.5	4.0 5.0	-000.7083123
2.5	1.5	3.0 0.5	3.0 1.5	2.0 1.0	-000.6278287
2.5	1.5	3.0 0.5	3.0 1.5	2.0 3.0	-000.7830399
2.5	1.5	3.0 0.5	3.0 1.5	2.0 5.0	-000.7054694
2.5	1.5	3.0 0.5	3.0 1.5	3.0 2.0	000.3335795
2.5	1.5	3.0 0.5	3.0 1.5	3.0 4.0	000.2571291
2.5	1.5	3.0 0.5	3.0 1.5	3.0 6.0	-000.4784495
2.5	1.5	3.0 0.5	3.0 1.5	4.0 1.0	-000.5399498
2.5	1.5	3.0 0.5	3.0 1.5	4.0 3.0	-000.0448956
2.5	1.5	3.0 0.5	3.0 1.5	4.0 5.0	000.0275050
2.5	1.5	3.0 0.5	3.0 1.5	5.0 2.0	-000.4508228
2.5	1.5	3.0 0.5	3.0 1.5	5.0 4.0	-000.5421049
2.5	1.5	3.0 0.5	3.0 1.5	5.0 6.0	-000.4707325
2.5	1.5	3.0 0.5	3.0 0.5	4.0 3.0	000.3138979
2.5	1.5	3.0 0.5	3.0 0.5	4.0 5.0	-000.0206163
2.5	1.5	3.0 0.5	3.0 0.5	4.0 7.0	-001.8501755
2.5	1.5	3.0 0.5	3.0 0.5	5.0 2.0	001.5873008
2.5	1.5	3.0 0.5	3.0 0.5	5.0 4.0	-000.4665691
2.5	1.5	3.0 0.5	3.0 0.5	5.0 6.0	-000.7292552
2.5	1.5	3.0 0.5	3.0 1.5	3.0 2.0	-000.7331432
2.5	1.5	3.0 0.5	3.0 1.5	3.0 4.0	-000.8815872
2.5	1.5	3.0 0.5	3.0 1.5	3.0 6.0	-000.7655195
2.5	1.5	3.0 0.5	3.0 1.5	4.0 3.0	000.3348929
2.5	1.5	3.0 0.5	3.0 1.5	4.0 5.0	000.2362077

J_1	S''	l_1'	S	l_1	J_2	S'	l_2'	S	l_2	L	H
2.5	1.5	3.0	0.5	3.0	4.5	1.5	4.0	0.5	4.0	7.0	-000.5578479
2.5	1.5	3.0	0.5	3.0	4.5	1.5	5.0	0.5	5.0	2.0	-000.6480123
2.5	1.5	3.0	0.5	3.0	4.5	1.5	5.0	0.5	5.0	4.0	-000.0519473
2.5	1.5	3.0	0.5	3.0	4.5	1.5	5.0	0.5	5.0	6.0	000.0541298
2.5	1.5	3.0	0.5	3.0	4.5	1.5	6.0	0.5	4.0	3.0	-000.5405346
2.5	1.5	3.0	0.5	3.0	4.5	1.5	6.0	0.5	4.0	5.0	-000.6461211
2.5	1.5	3.0	0.5	3.0	4.5	1.5	6.0	0.5	4.0	7.0	-000.5522428
2.5	1.5	3.0	1.5	1.0	0.5	0.5	0.0	1.5	2.0	3.0	000.6172134
2.5	1.5	3.0	1.5	1.0	0.5	0.5	1.0	1.5	1.0	2.0	000.8262364
2.5	1.5	3.0	1.5	1.0	0.5	1.5	1.0	1.5	1.0	2.0	-000.1460593
2.5	1.5	3.0	1.5	1.0	0.5	1.5	2.0	1.5	2.0	3.0	000.0872872
2.5	1.5	3.0	1.5	1.0	1.5	0.5	1.0	1.5	1.0	2.0	-000.1306394
2.5	1.5	3.0	1.5	1.0	1.5	0.5	1.0	1.5	3.0	2.0	000.0186627
2.5	1.5	3.0	1.5	1.0	1.5	0.5	1.0	1.5	3.0	4.0	000.9523808
2.5	1.5	3.0	1.5	1.0	1.5	0.5	2.0	1.5	0.0	1.0	-001.3063946
2.5	1.5	3.0	1.5	1.0	1.5	0.5	2.0	1.5	2.0	1.0	000.2612789
2.5	1.5	3.0	1.5	1.0	1.5	0.5	2.0	1.5	2.0	3.0	000.8030419
2.5	1.5	3.0	1.5	1.0	1.5	1.5	0.0	1.5	2.0	3.0	000.6110100
2.5	1.5	3.0	1.5	1.0	1.5	1.5	1.0	1.5	1.0	2.0	000.5842373
2.5	1.5	3.0	1.5	1.0	1.5	1.5	1.0	1.5	3.0	2.0	-000.0834624
2.5	1.5	3.0	1.5	1.0	1.5	1.5	1.0	1.5	3.0	4.0	000.2129587
2.5	1.5	3.0	1.5	1.0	1.5	1.5	2.0	1.5	0.0	1.0	000.3265986
2.5	1.5	3.0	1.5	1.0	1.5	1.5	2.0	1.5	2.0	1.0	-000.0653195
2.5	1.5	3.0	1.5	1.0	1.5	1.5	2.0	1.5	2.0	3.0	000.0174574
2.5	1.5	3.0	1.5	1.0	1.5	1.5	3.0	1.5	1.0	2.0	-000.4381780
2.5	1.5	3.0	1.5	1.0	1.5	1.5	3.0	1.5	3.0	2.0	000.0625968
2.5	1.5	3.0	1.5	1.0	1.5	1.5	3.0	1.5	3.0	4.0	000.2129589
2.5	1.5	3.0	1.5	1.0	2.5	0.5	2.0	1.5	2.0	1.0	000.3142338

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	3.0	1.5	1.0	2.5	0.5	2.0	1.5	2.0	3.0	-000.0839825
2.5	1.5	3.0	1.5	1.0	2.5	0.5	2.0	1.5	4.0	3.0	000.0190475
2.5	1.5	3.0	1.5	1.0	2.5	0.5	2.0	1.5	4.0	5.0	001.2012501
2.5	1.5	3.0	1.5	1.0	2.5	0.5	3.0	1.5	1.0	2.0	-000.4799999
2.5	1.5	3.0	1.5	1.0	2.5	0.5	3.0	1.5	3.0	2.0	000.2519475
2.5	1.5	3.0	1.5	1.0	2.5	0.5	3.0	1.5	3.0	4.0	000.8571427
2.5	1.5	3.0	1.5	1.0	2.5	1.5	1.0	1.5	1.0	2.0	-000.4381780
2.5	1.5	3.0	1.5	1.0	2.5	1.5	1.0	1.5	3.0	2.0	000.2299954
2.5	1.5	3.0	1.5	1.0	2.5	1.5	1.0	1.5	3.0	4.0	000.7824606
2.5	1.5	3.0	1.5	1.0	2.5	1.5	2.0	1.5	2.0	1.0	000.6718600
2.5	1.5	3.0	1.5	1.0	2.5	1.5	2.0	1.5	2.0	3.0	000.3815694
2.5	1.5	3.0	1.5	1.0	2.5	1.5	2.0	1.5	4.0	3.0	-000.0865416
2.5	1.5	3.0	1.5	1.0	2.5	1.5	2.0	1.5	4.0	5.0	000.3210474
2.5	1.5	3.0	1.5	1.0	2.5	1.5	3.0	1.5	1.0	2.0	000.0000000
2.5	1.5	3.0	1.5	1.0	2.5	1.5	3.0	1.5	3.0	2.0	000.0000000
2.5	1.5	3.0	1.5	1.0	2.5	1.5	3.0	1.5	3.0	4.0	000.0000000
2.5	1.5	3.0	1.5	1.0	2.5	1.5	4.0	1.5	2.0	1.0	-000.6857144
2.5	1.5	3.0	1.5	1.0	2.5	1.5	4.0	1.5	2.0	3.0	-000.5497945
2.5	1.5	3.0	1.5	1.0	2.5	1.5	4.0	1.5	4.0	3.0	000.1246956
2.5	1.5	3.0	1.5	1.0	2.5	1.5	4.0	1.5	4.0	5.0	000.3145608
2.5	1.5	3.0	1.5	1.0	3.5	0.5	3.0	1.5	3.0	2.0	000.4577771
2.5	1.5	3.0	1.5	1.0	3.5	0.5	3.0	1.5	3.0	4.0	-000.0491808
2.5	1.5	3.0	1.5	1.0	3.5	0.5	3.0	1.5	5.0	4.0	000.0139962
2.5	1.5	3.0	1.5	1.0	3.5	0.5	3.0	1.5	5.0	6.0	001.4063498
2.5	1.5	3.0	1.5	1.0	3.5	0.5	4.0	1.5	2.0	1.0	001.2344269
2.5	1.5	3.0	1.5	1.0	3.5	0.5	4.0	1.5	2.0	3.0	-000.3299144
2.5	1.5	3.0	1.5	1.0	3.5	0.5	4.0	1.5	4.0	3.0	000.2459037
2.5	1.5	3.0	1.5	1.0	3.5	0.5	4.0	1.5	4.0	5.0	000.9180778

J_1 , S''	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H						
2.5	1.5	3.0	1.5	1.0	3.5	1.5	2.0	1.5	2.0	1.0	-000.6065400
2.5	1.5	3.0	1.5	1.0	3.5	1.5	2.0	1.5	2.0	3.0	-000.4863141
2.5	1.5	3.0	1.5	1.0	3.5	1.5	2.0	1.5	4.0	3.0	000.3624768
2.5	1.5	3.0	1.5	1.0	3.5	1.5	2.0	1.5	4.0	5.0	000.9143939
2.5	1.5	3.0	1.5	1.0	3.5	1.5	3.0	1.5	3.0	2.0	000.6329234
2.5	1.5	3.0	1.5	1.0	3.5	1.5	3.0	1.5	3.0	4.0	000.2981422
2.5	1.5	3.0	1.5	1.0	3.5	1.5	3.0	1.5	5.0	4.0	-000.0848482
2.5	1.5	3.0	1.5	1.0	3.5	1.5	3.0	1.5	5.0	6.0	000.4059780
2.5	1.5	3.0	1.5	1.0	3.5	1.5	4.0	1.5	2.0	1.0	-000.5216403
2.5	1.5	3.0	1.5	1.0	3.5	1.5	4.0	1.5	2.0	3.0	-000.0278828
2.5	1.5	3.0	1.5	1.0	3.5	1.5	4.0	1.5	4.0	3.0	000.0207826
2.5	1.5	3.0	1.5	1.0	3.5	1.5	4.0	1.5	4.0	5.0	-000.0356499
2.5	1.5	3.0	1.5	1.0	3.5	1.5	5.0	1.5	3.0	2.0	-000.8553771
2.5	1.5	3.0	1.5	1.0	3.5	1.5	5.0	1.5	3.0	4.0	-000.6285708
2.5	1.5	3.0	1.5	1.0	3.5	1.5	5.0	1.5	5.0	4.0	000.1788849
2.5	1.5	3.0	1.5	1.0	3.5	1.5	5.0	1.5	5.0	6.0	000.3994296
2.5	1.5	3.0	1.5	1.0	4.5	0.5	4.0	1.5	4.0	3.0	000.5702248
2.5	1.5	3.0	1.5	1.0	4.5	0.5	4.0	1.5	4.0	5.0	-000.0221301
2.5	1.5	3.0	1.5	1.0	4.5	0.5	4.0	1.5	6.0	5.0	000.0072217
2.5	1.5	3.0	1.5	1.0	4.5	0.5	4.0	1.5	6.0	7.0	001.5843961
2.5	1.5	3.0	1.5	1.0	4.5	0.5	5.0	1.5	3.0	2.0	001.5058461
2.5	1.5	3.0	1.5	1.0	4.5	0.5	5.0	1.5	3.0	4.0	-000.2704939
2.5	1.5	3.0	1.5	1.0	4.5	0.5	5.0	1.5	5.0	4.0	000.2434325
2.5	1.5	3.0	1.5	1.0	4.5	0.5	5.0	1.5	5.0	6.0	000.9783990
2.5	1.5	3.0	1.5	1.0	4.5	1.5	3.0	1.5	3.0	2.0	-000.6955207
2.5	1.5	3.0	1.5	1.0	4.5	1.5	3.0	1.5	3.0	4.0	-000.5111016
2.5	1.5	3.0	1.5	1.0	4.5	1.5	3.0	1.5	5.0	4.0	000.4599670
2.5	1.5	3.0	1.5	1.0	4.5	1.5	3.0	1.5	5.0	6.0	001.0270518

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	3.0 1.5 1.0 4.5 1.5 4.0	1.5	4.0 3.0	000.6083653
2.5	1.5	3.0 1.5 1.0 4.5 1.5 4.0	1.5	4.0 5.0	000.2535555
2.5	1.5	3.0 1.5 1.0 4.5 1.5 4.0	1.5	6.0 5.0	-000.0827486
2.5	1.5	3.0 1.5 1.0 4.5 1.5 4.0	1.5	6.0 7.0	000.4777135
2.5	1.5	3.0 1.5 1.0 4.5 1.5 5.0	1.5	3.0 2.0	-000.6147592
2.5	1.5	3.0 1.5 1.0 4.5 1.5 5.0	1.5	3.0 4.0	-000.0301165
2.5	1.5	3.0 1.5 1.0 4.5 1.5 5.0	1.5	5.0 4.0	000.0271044
2.5	1.5	3.0 1.5 1.0 4.5 1.5 5.0	1.5	5.0 6.0	-000.0726231
2.5	1.5	3.0 1.5 1.0 4.5 1.5 6.0	1.5	4.0 3.0	-000.9819297
2.5	1.5	3.0 1.5 1.0 4.5 1.5 6.0	1.5	4.0 5.0	-000.6935716
2.5	1.5	3.0 1.5 1.0 4.5 1.5 6.0	1.5	6.0 5.0	000.2263516
2.5	1.5	3.0 1.5 1.0 4.5 1.5 6.0	1.5	6.0 7.0	000.4729115
2.5	1.5	3.0 1.5 3.0 0.5 0.5 0.0	1.5	2.0 3.0	-000.5039526
2.5	1.5	3.0 1.5 3.0 0.5 0.5 1.0	1.5	1.0 2.0	-000.6746192
2.5	1.5	3.0 1.5 3.0 0.5 1.5 1.0	1.5	1.0 2.0	000.1192570
2.5	1.5	3.0 1.5 3.0 0.5 1.5 2.0	1.5	2.0 3.0	-000.0712697
2.5	1.5	3.0 1.5 3.0 1.5 0.5 1.0	1.5	1.0 2.0	-000.1219047
2.5	1.5	3.0 1.5 3.0 1.5 0.5 1.0	1.5	1.0 4.0	000.5832117
2.5	1.5	3.0 1.5 3.0 1.5 0.5 1.0	1.5	3.0 2.0	-000.0914285
2.5	1.5	3.0 1.5 3.0 1.5 0.5 1.0	1.5	3.0 4.0	-000.5832117
2.5	1.5	3.0 1.5 3.0 1.5 0.5 2.0	1.5	0.0 3.0	000.8196011
2.5	1.5	3.0 1.5 3.0 1.5 0.5 2.0	1.5	2.0 1.0	-001.2800000
2.5	1.5	3.0 1.5 3.0 1.5 0.5 2.0	1.5	2.0 3.0	000.1639202
2.5	1.5	3.0 1.5 3.0 1.5 1.5 0.0	1.5	0.0 3.0	000.6236096
2.5	1.5	3.0 1.5 3.0 1.5 1.5 0.0	1.5	2.0 3.0	000.1247218
2.5	1.5	3.0 1.5 3.0 1.5 1.5 1.0	1.5	1.0 2.0	000.5451746
2.5	1.5	3.0 1.5 3.0 1.5 1.5 1.0	1.5	1.0 4.0	000.1304100
2.5	1.5	3.0 1.5 3.0 1.5 1.5 1.0	1.5	3.0 2.0	000.4088809

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	3.0	4.0	-000.1304100
2.5	1.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	0.0	3.0	000.0178174
2.5	1.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	1.0	000.3200000
2.5	1.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	3.0	000.0035633
2.5	1.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	1.0	2.0	-000.4088809
2.5	1.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	1.0	4.0	000.1304100
2.5	1.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	2.0	-000.3066608
2.5	1.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	4.0	-000.1304100
2.5	1.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	1.0	000.2932234
2.5	1.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	3.0	-000.0647617
2.5	1.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	5.0	000.8580356
2.5	1.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	1.0	000.2244525
2.5	1.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	3.0	-000.0699854
2.5	1.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	5.0	-000.6305247
2.5	1.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	1.0	2.0	000.2519475
2.5	1.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	1.0	4.0	000.8571427
2.5	1.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	2.0	-000.3771427
2.5	1.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	4.0	000.3499268
2.5	1.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	1.0	2.0	000.2299954
2.5	1.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	1.0	4.0	000.7824606
2.5	1.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	3.0	2.0	-000.3442827
2.5	1.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	3.0	4.0	000.3194382
2.5	1.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	1.0	000.6269388
2.5	1.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	3.0	000.2942418
2.5	1.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	5.0	000.2293194
2.5	1.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	1.0	000.4799000
2.5	1.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	3.0	000.3179743
2.5	1.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	5.0	-000.1685146

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
2.5	1.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	1.0	2.0	000.0000000
2.5	1.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	1.0	4.0	000.0000000
2.5	1.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	2.0	000.0000000
2.5	1.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	4.0	000.0000000
2.5	1.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	1.0	-000.6398669
2.5	1.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	3.0	-000.4239658
2.5	1.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	5.0	000.2246860
2.5	1.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	1.0	-000.4897955
2.5	1.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	3.0	-000.4581622
2.5	1.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	5.0	-000.1651094
2.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	2.0	000.4049213
2.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	4.0	-000.0328546
2.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	6.0	001.0698461
2.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	2.0	000.3482426
2.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	4.0	-000.0440791
2.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	6.0	-000.6698293
2.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	1.0	-000.1079900
2.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	3.0	000.2693738
2.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	5.0	000.8979497
2.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	1.0	001.2073628
2.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	3.0	-000.2007795
2.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	5.0	000.4551190
2.5	1.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	1.0	000.0530611
2.5	1.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	3.0	000.3970740
2.5	1.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	5.0	000.8943466
2.5	1.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	1.0	-000.5932423
2.5	1.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	3.0	-000.2959606
2.5	1.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	5.0	000.4532923

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	3.0 1.5 3.0 3.5 1.5 3.0	1.5 3.0	2.0	000.5598446
2.5	1.5	3.0 1.5 3.0 3.5 1.5 3.0	1.5 3.0	4.0	000.1991721
2.5	1.5	3.0 1.5 3.0 3.5 1.5 3.0	1.5 3.0	6.0	000.3088374
2.5	1.5	3.0 1.5 3.0 3.5 1.5 3.0	1.5 5.0	2.0	000.4814811
2.5	1.5	3.0 1.5 3.0 3.5 1.5 3.0	1.5 5.0	4.0	000.2672171
2.5	1.5	3.0 1.5 3.0 3.5 1.5 3.0	1.5 5.0	6.0	-000.1933624
2.5	1.5	3.0 1.5 3.0 3.5 1.5 4.0	1.5 2.0	1.0	000.0456336
2.5	1.5	3.0 1.5 3.0 3.5 1.5 4.0	1.5 2.0	3.0	000.0227659
2.5	1.5	3.0 1.5 3.0 3.5 1.5 4.0	1.5 2.0	5.0	-000.0348687
2.5	1.5	3.0 1.5 3.0 3.5 1.5 4.0	1.5 4.0	1.0	-000.5102045
2.5	1.5	3.0 1.5 3.0 3.5 1.5 4.0	1.5 4.0	3.0	-000.0169682
2.5	1.5	3.0 1.5 3.0 3.5 1.5 4.0	1.5 4.0	5.0	-000.0176723
2.5	1.5	3.0 1.5 3.0 3.5 1.5 5.0	1.5 3.0	2.0	-000.7566129
2.5	1.5	3.0 1.5 3.0 3.5 1.5 5.0	1.5 3.0	4.0	-000.4199119
2.5	1.5	3.0 1.5 3.0 3.5 1.5 5.0	1.5 3.0	6.0	000.3038562
2.5	1.5	3.0 1.5 3.0 3.5 1.5 5.0	1.5 5.0	2.0	-000.6507073
2.5	1.5	3.0 1.5 3.0 3.5 1.5 5.0	1.5 5.0	4.0	-000.5633708
2.5	1.5	3.0 1.5 3.0 3.5 1.5 5.0	1.5 5.0	6.0	-000.1902436
2.5	1.5	3.0 1.5 3.0 4.5 0.5 4.0	1.5 4.0	3.0	000.4867499
2.5	1.5	3.0 1.5 3.0 4.5 0.5 4.0	1.5 4.0	5.0	-000.0132039
2.5	1.5	3.0 1.5 3.0 4.5 0.5 4.0	1.5 4.0	7.0	001.2473881
2.5	1.5	3.0 1.5 3.0 4.5 0.5 4.0	1.5 6.0	3.0	000.4489356
2.5	1.5	3.0 1.5 3.0 4.5 0.5 4.0	1.5 6.0	5.0	-000.0206389
2.5	1.5	3.0 1.5 3.0 4.5 0.5 4.0	1.5 6.0	7.0	-000.7056293
2.5	1.5	3.0 1.5 3.0 4.5 0.5 5.0	1.5 3.0	2.0	-000.2049196
2.5	1.5	3.0 1.5 3.0 4.5 0.5 5.0	1.5 3.0	4.0	000.2710523
2.5	1.5	3.0 1.5 3.0 4.5 0.5 5.0	1.5 3.0	6.0	000.9414643
2.5	1.5	3.0 1.5 3.0 4.5 0.5 5.0	1.5 5.0	2.0	001.4490013

J_1 , S''	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
2.5	1.5	3.0 1.5 3.0 4.5 0.5 5.0	1.5 5.0	4.0	-000.1277750
2.5	1.5	3.0 1.5 3.0 4.5 0.5 5.0	1.5 5.0	6.0	000.5325735
2.5	1.5	3.0 1.5 3.0 4.5 1.5 3.0	1.5 3.0	2.0	000.0946480
2.5	1.5	3.0 1.5 3.0 4.5 1.5 3.0	1.5 3.0	4.0	000.5121562
2.5	1.5	3.0 1.5 3.0 4.5 1.5 3.0	1.5 3.0	6.0	000.9882810
2.5	1.5	3.0 1.5 3.0 4.5 1.5 3.0	1.5 5.0	2.0	-000.6692649
2.5	1.5	3.0 1.5 3.0 4.5 1.5 3.0	1.5 5.0	4.0	-000.2414317
2.5	1.5	3.0 1.5 3.0 4.5 1.5 3.0	1.5 5.0	6.0	000.5590557
2.5	1.5	3.0 1.5 3.0 4.5 1.5 4.0	1.5 4.0	3.0	000.5193070
2.5	1.5	3.0 1.5 3.0 4.5 1.5 4.0	1.5 4.0	5.0	000.1512877
2.5	1.5	3.0 1.5 3.0 4.5 1.5 4.0	1.5 4.0	7.0	000.3761009
2.5	1.5	3.0 1.5 3.0 4.5 1.5 4.0	1.5 6.0	3.0	000.4789625
2.5	1.5	3.0 1.5 3.0 4.5 1.5 4.0	1.5 6.0	5.0	000.2364756
2.5	1.5	3.0 1.5 3.0 4.5 1.5 4.0	1.5 6.0	7.0	-000.2127539
2.5	1.5	3.0 1.5 3.0 4.5 1.5 5.0	1.5 3.0	2.0	000.0836576
2.5	1.5	3.0 1.5 3.0 4.5 1.5 5.0	1.5 3.0	4.0	000.0301797
2.5	1.5	3.0 1.5 3.0 4.5 1.5 5.0	1.5 3.0	6.0	-000.0698812
2.5	1.5	3.0 1.5 3.0 4.5 1.5 5.0	1.5 5.0	2.0	-000.5915522
2.5	1.5	3.0 1.5 3.0 4.5 1.5 5.0	1.5 5.0	4.0	-000.0142259
2.5	1.5	3.0 1.5 3.0 4.5 1.5 5.0	1.5 5.0	6.0	-000.0395306
2.5	1.5	3.0 1.5 3.0 4.5 1.5 6.0	1.5 4.0	3.0	-000.8381861
2.5	1.5	3.0 1.5 3.0 4.5 1.5 6.0	1.5 4.0	5.0	-000.4138341
2.5	1.5	3.0 1.5 3.0 4.5 1.5 6.0	1.5 4.0	7.0	000.3723202
2.5	1.5	3.0 1.5 3.0 4.5 1.5 6.0	1.5 6.0	3.0	-000.7730705
2.5	1.5	3.0 1.5 3.0 4.5 1.5 6.0	1.5 6.0	5.0	-000.6468549
2.5	1.5	3.0 1.5 3.0 4.5 1.5 6.0	1.5 6.0	7.0	-000.2106162
2.5	1.5	4.0 0.5 2.0 0.5 0.5 1.0	0.5 1.0	3.0	000.2332847
2.5	1.5	4.0 0.5 2.0 0.5 1.5 1.0	0.5 1.0	5.0	000.8247861

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	4.0 0.5 2.0 0.5 1.5	2.0	0.5 0.0 2.0	000.8280787
2.5	1.5	4.0 0.5 2.0 1.5 0.5	1.0	0.5 1.0 3.0	-000.2332847
2.5	1.5	4.0 0.5 2.0 1.5 0.5	2.0	0.5 2.0 2.0	000.3345942
2.5	1.5	4.0 0.5 2.0 1.5 0.5	2.0	0.5 2.0 4.0	000.3414939
2.5	1.5	4.0 0.5 2.0 1.5 1.5	0.0	0.5 2.0 4.0	-001.1952285
2.5	1.5	4.0 0.5 2.0 1.5 1.5	1.0	0.5 1.0 3.0	-000.6781326
2.5	1.5	4.0 0.5 2.0 1.5 1.5	2.0	0.5 2.0 2.0	000.5018915
2.5	1.5	4.0 0.5 2.0 1.5 1.5	2.0	0.5 2.0 4.0	000.5122406
2.5	1.5	4.0 0.5 2.0 1.5 1.5	3.0	0.5 1.0 1.0	001.1710802
2.5	1.5	4.0 0.5 2.0 1.5 1.5	3.0	0.5 1.0 3.0	000.1564921
2.5	1.5	4.0 0.5 2.0 2.5 0.5	2.0	0.5 2.0 2.0	-000.3345941
2.5	1.5	4.0 0.5 2.0 2.5 0.5	2.0	0.5 2.0 4.0	-000.3414935
2.5	1.5	4.0 0.5 2.0 2.5 0.5	3.0	0.5 3.0 1.0	000.3740877
2.5	1.5	4.0 0.5 2.0 2.5 0.5	3.0	0.5 3.0 3.0	000.4665693
2.5	1.5	4.0 0.5 2.0 2.5 0.5	3.0	0.5 3.0 5.0	000.4203498
2.5	1.5	4.0 0.5 2.0 2.5 1.5	1.0	0.5 3.0 3.0	-000.2555507
2.5	1.5	4.0 0.5 2.0 2.5 1.5	1.0	0.5 3.0 5.0	-001.6116454
2.5	1.5	4.0 0.5 2.0 2.5 1.5	2.0	0.5 2.0 2.0	-000.6259685
2.5	1.5	4.0 0.5 2.0 2.5 1.5	2.0	0.5 2.0 4.0	-000.6388765
2.5	1.5	4.0 0.5 2.0 2.5 1.5	3.0	0.5 3.0 1.0	000.3345942
2.5	1.5	4.0 0.5 2.0 2.5 1.5	3.0	0.5 3.0 3.0	000.4173122
2.5	1.5	4.0 0.5 2.0 2.5 1.5	3.0	0.5 3.0 5.0	000.3759722
2.5	1.5	4.0 0.5 2.0 2.5 1.5	4.0	0.5 2.0 2.0	000.0000000
2.5	1.5	4.0 0.5 2.0 2.5 1.5	4.0	0.5 2.0 4.0	000.0000000
2.5	1.5	4.0 0.5 2.0 3.5 0.5	3.0	0.5 3.0 1.0	-000.3740875
2.5	1.5	4.0 0.5 2.0 3.5 0.5	3.0	0.5 3.0 3.0	-000.4665693
2.5	1.5	4.0 0.5 2.0 3.5 0.5	3.0	0.5 3.0 5.0	-000.4203495
2.5	1.5	4.0 0.5 2.0 3.5 0.5	4.0	0.5 4.0 2.0	000.4647141

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	4.0 0.5 2.0 3.5 0.5 4.0 0.5 4.0 4.0	000.5588081		
2.5	1.5	4.0 0.5 2.0 3.5 0.5 4.0 0.5 4.0 5.0	000.4852369		
2.5	1.5	4.0 0.5 2.0 3.5 1.5 2.0 0.5 4.0 2.0	-000.0737708		
2.5	1.5	4.0 0.5 2.0 3.5 1.5 2.0 0.5 4.0 4.0	-000.4106851		
2.5	1.5	4.0 0.5 2.0 3.5 1.5 2.0 0.5 4.0 6.0	-001.9257239		
2.5	1.5	4.0 0.5 2.0 3.5 1.5 3.0 0.5 3.0 1.0	-000.5399488		
2.5	1.5	4.0 0.5 2.0 3.5 1.5 3.0 0.5 3.0 3.0	-000.6734345		
2.5	1.5	4.0 0.5 2.0 3.5 1.5 3.0 0.5 3.0 5.0	-000.6067227		
2.5	1.5	4.0 0.5 2.0 3.5 1.5 4.0 0.5 4.0 2.0	000.2749292		
2.5	1.5	4.0 0.5 2.0 3.5 1.5 4.0 0.5 4.0 4.0	000.3305950		
2.5	1.5	4.0 0.5 2.0 3.5 1.5 4.0 0.5 4.0 6.0	000.2870691		
2.5	1.5	4.0 0.5 2.0 3.5 1.5 5.0 0.5 3.0 1.0	-001.6903086		
2.5	1.5	4.0 0.5 2.0 3.5 1.5 5.0 0.5 3.0 3.0	-000.3011695		
2.5	1.5	4.0 0.5 2.0 3.5 1.5 5.0 0.5 3.0 5.0	-000.0759740		
2.5	1.5	4.0 0.5 2.0 4.5 0.5 4.0 0.5 4.0 2.0	-000.4647137		
2.5	1.5	4.0 0.5 2.0 4.5 0.5 4.0 0.5 4.0 4.0	-000.5588079		
2.5	1.5	4.0 0.5 2.0 4.5 0.5 4.0 0.5 4.0 6.0	-000.4852371		
2.5	1.5	4.0 0.5 2.0 4.5 0.5 5.0 0.5 5.0 3.0	000.5301927		
2.5	1.5	4.0 0.5 2.0 4.5 0.5 5.0 0.5 5.0 5.0	000.6337585		
2.5	1.5	4.0 0.5 2.0 4.5 0.5 5.0 0.5 5.0 7.0	000.5416759		
2.5	1.5	4.0 0.5 2.0 4.5 1.5 3.0 0.5 5.0 3.0	-000.1224424		
2.5	1.5	4.0 0.5 2.0 4.5 1.5 3.0 0.5 5.0 5.0	-000.5227145		
2.5	1.5	4.0 0.5 2.0 4.5 1.5 3.0 0.5 5.0 7.0	-002.1891568		
2.5	1.5	4.0 0.5 2.0 4.5 1.5 4.0 0.5 4.0 2.0	-000.5604667		
2.5	1.5	4.0 0.5 2.0 4.5 1.5 4.0 0.5 4.0 4.0	-000.6739473		
2.5	1.5	4.0 0.5 2.0 4.5 1.5 4.0 0.5 4.0 6.0	-000.5852166		
2.5	1.5	4.0 0.5 2.0 4.5 1.5 5.0 0.5 5.0 3.0	000.2164510		
2.5	1.5	4.0 0.5 2.0 4.5 1.5 5.0 0.5 5.0 5.0	000.2587310		

J_1 , S''	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
2.5	1.5	4.0 0.5	2.0 4.5	1.5 5.0	0.5 5.0 7.0 000.2211370
2.5	1.5	4.0 0.5	2.0 4.5	1.5 6.0	0.5 4.0 2.0 -000.1570866
2.5	1.5	4.0 0.5	2.0 4.5	1.5 6.0	0.5 4.0 4.0 -000.0349802
2.5	1.5	4.0 0.5	2.0 4.5	1.5 6.0	0.5 4.0 6.0 -000.0093727
2.5	1.5	4.0 1.5	2.0 0.5	0.5 1.0	1.5 1.0 3.0 -000.0881734
2.5	1.5	4.0 1.5	2.0 0.5	1.5 1.0	1.5 1.0 3.0 -000.3117399
2.5	1.5	4.0 1.5	2.0 0.5	1.5 2.0	1.5 2.0 2.0 -000.3129843
2.5	1.5	4.0 1.5	2.0 1.5	0.5 1.0	1.5 1.0 3.0 000.2230628
2.5	1.5	4.0 1.5	2.0 1.5	0.5 1.0	1.5 3.0 3.0 000.1672971
2.5	1.5	4.0 1.5	2.0 1.5	0.5 2.0	1.5 0.0 2.0 000.6259686
2.5	1.5	4.0 1.5	2.0 1.5	0.5 2.0	1.5 2.0 2.0 000.4471203
2.5	1.5	4.0 1.5	2.0 1.5	0.5 2.0	1.5 2.0 4.0 -000.1825361
2.5	1.5	4.0 1.5	2.0 1.5	1.5 0.0	1.5 2.0 4.0 000.6388765
2.5	1.5	4.0 1.5	2.0 1.5	1.5 1.0	1.5 1.0 3.0 000.6484189
2.5	1.5	4.0 1.5	2.0 1.5	1.5 1.0	1.5 3.0 3.0 000.4863139
2.5	1.5	4.0 1.5	2.0 1.5	1.5 2.0	1.5 0.0 2.0 000.9389529
2.5	1.5	4.0 1.5	2.0 1.5	1.5 2.0	1.5 2.0 2.0 000.6706806
2.5	1.5	4.0 1.5	2.0 1.5	1.5 2.0	1.5 2.0 4.0 -000.2738042
2.5	1.5	4.0 1.5	2.0 1.5	1.5 3.0	1.5 1.0 1.0 000.9797958
2.5	1.5	4.0 1.5	2.0 1.5	1.5 3.0	1.5 1.0 3.0 -000.1496352
2.5	1.5	4.0 1.5	2.0 1.5	1.5 3.0	1.5 3.0 1.0 -000.1399707
2.5	1.5	4.0 1.5	2.0 1.5	1.5 3.0	1.5 3.0 3.0 -000.1122264
2.5	1.5	4.0 1.5	2.0 2.5	0.5 2.0	1.5 2.0 2.0 -000.1194979
2.5	1.5	4.0 1.5	2.0 2.5	0.5 2.0	1.5 2.0 4.0 000.3902784
2.5	1.5	4.0 1.5	2.0 2.5	0.5 2.0	1.5 4.0 2.0 000.0878122
2.5	1.5	4.0 1.5	2.0 2.5	0.5 2.0	1.5 4.0 4.0 000.2987447
2.5	1.5	4.0 1.5	2.0 2.5	0.5 3.0	1.5 1.0 1.0 000.7666517
2.5	1.5	4.0 1.5	2.0 2.5	0.5 3.0	1.5 1.0 3.0 000.6146889

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	4.0	1.5	2.0	2.5	0.5	3.0	1.5	3.0	1.0	000.7153930
2.5	1.5	4.0	1.5	2.0	2.5	0.5	3.0	1.5	3.0	3.0	000.4740086
2.5	1.5	4.0	1.5	2.0	2.5	0.5	3.0	1.5	3.0	5.0	-000.2512071
2.5	1.5	4.0	1.5	2.0	2.5	1.5	1.0	1.5	1.0	3.0	-000.3366788
2.5	1.5	4.0	1.5	2.0	2.5	1.5	1.0	1.5	3.0	3.0	-000.2596249
2.5	1.5	4.0	1.5	2.0	2.5	1.5	1.0	1.5	3.0	5.0	000.9631426
2.5	1.5	4.0	1.5	2.0	2.5	1.5	2.0	1.5	2.0	2.0	-000.2235600
2.5	1.5	4.0	1.5	2.0	2.5	1.5	2.0	1.5	2.0	4.0	000.7301443
2.5	1.5	4.0	1.5	2.0	2.5	1.5	2.0	1.5	4.0	2.0	000.1642822
2.5	1.5	4.0	1.5	2.0	2.5	1.5	2.0	1.5	4.0	4.0	000.5589000
2.5	1.5	4.0	1.5	2.0	2.5	1.5	3.0	1.5	1.0	1.0	000.6857144
2.5	1.5	4.0	1.5	2.0	2.5	1.5	3.0	1.5	1.0	3.0	000.5497945
2.5	1.5	4.0	1.5	2.0	2.5	1.5	3.0	1.5	3.0	1.0	000.6398669
2.5	1.5	4.0	1.5	2.0	2.5	1.5	3.0	1.5	3.0	3.0	000.4239658
2.5	1.5	4.0	1.5	2.0	2.5	1.5	3.0	1.5	3.0	5.0	-000.2246860
2.5	1.5	4.0	1.5	2.0	2.5	1.5	4.0	1.5	2.0	2.0	-000.0000000
2.5	1.5	4.0	1.5	2.0	2.5	1.5	4.0	1.5	2.0	4.0	000.0000000
2.5	1.5	4.0	1.5	2.0	2.5	1.5	4.0	1.5	4.0	2.0	-000.0000000
2.5	1.5	4.0	1.5	2.0	2.5	1.5	4.0	1.5	4.0	4.0	000.0000000
2.5	1.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	3.0	1.0	-000.3463378
2.5	1.5	4.0	1.5	2.0	3.5	0.5	3.0	1.5	3.0	3.0	-000.0719933
2.5	1.5	4.0	1.5	2.0	3.5	0.5	3.0	1.5	3.0	5.0	000.5188909
2.5	1.5	4.0	1.5	2.0	3.5	0.5	3.0	1.5	5.0	3.0	000.1609820
2.5	1.5	4.0	1.5	2.0	3.5	0.5	3.0	1.5	5.0	5.0	000.4060962
2.5	1.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	2.0	2.0	000.8449780
2.5	1.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	2.0	4.0	000.6209291
2.5	1.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	2.0	000.8397458
2.5	1.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	4.0	000.4796427

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	6.0	-000.3068906
2.5	1.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	2.0	2.0	-000.1341362
2.5	1.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	2.0	4.0	-000.4563406
2.5	1.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	2.0	-000.1333048
2.5	1.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	4.0	-000.3525043
2.5	1.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	6.0	001.2179342
2.5	1.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	3.0	1.0	-000.4998960
2.5	1.5	4.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	3.0	-000.1039128
2.5	1.5	4.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	5.0	000.7489546
2.5	1.5	4.0	1.5	2.0	3.5	1.5	3.0	1.5	5.0	3.0	000.2323565
2.5	1.5	4.0	1.5	2.0	3.5	1.5	3.0	1.5	5.0	5.0	000.5861500
2.5	1.5	4.0	1.5	2.0	3.5	1.5	4.0	1.5	2.0	2.0	000.4998956
2.5	1.5	4.0	1.5	2.0	3.5	1.5	4.0	1.5	2.0	4.0	000.3673469
2.5	1.5	4.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	2.0	000.4968004
2.5	1.5	4.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	4.0	000.2837609
2.5	1.5	4.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	6.0	-000.1815586
2.5	1.5	4.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	1.0	-001.5649214
2.5	1.5	4.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	3.0	-000.0464712
2.5	1.5	4.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	5.0	000.0937835
2.5	1.5	4.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	3.0	000.1039132
2.5	1.5	4.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	5.0	000.0733974
2.5	1.5	4.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	2.0	-000.4119244
2.5	1.5	4.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	4.0	-000.0225151
2.5	1.5	4.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	5.0	000.6256237
2.5	1.5	4.0	1.5	2.0	4.5	0.5	4.0	1.5	6.0	4.0	000.2228864
2.5	1.5	4.0	1.5	2.0	4.5	0.5	4.0	1.5	6.0	6.0	000.4976808
2.5	1.5	4.0	1.5	2.0	4.5	0.5	5.0	1.5	3.0	3.0	000.8999146
2.5	1.5	4.0	1.5	2.0	4.5	0.5	5.0	1.5	3.0	5.0	000.6356419

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	4.0 1.5 2.0 4.5 0.5	5.0	1.5 5.0 3.0	000.9255794
2.5	1.5	4.0 1.5 2.0 4.5 0.5	5.0	1.5 5.0 5.0	000.4840406
2.5	1.5	4.0 1.5 2.0 4.5 0.5	5.0	1.5 5.0 7.0	-000.3546105
2.5	1.5	4.0 1.5 2.0 4.5 1.5	3.0	1.5 3.0 3.0	-000.2078261
2.5	1.5	4.0 1.5 2.0 4.5 1.5	3.0	1.5 3.0 5.0	-000.5242680
2.5	1.5	4.0 1.5 2.0 4.5 1.5	3.0	1.5 5.0 3.0	-000.2137535
2.5	1.5	4.0 1.5 2.0 4.5 1.5	3.0	1.5 5.0 5.0	-000.3992296
2.5	1.5	4.0 1.5 2.0 4.5 1.5	3.0	1.5 5.0 7.0	001.4331392
2.5	1.5	4.0 1.5 2.0 4.5 1.5	4.0	1.5 4.0 2.0	-000.4968004
2.5	1.5	4.0 1.5 2.0 4.5 1.5	4.0	1.5 4.0 4.0	-000.0271537
2.5	1.5	4.0 1.5 2.0 4.5 1.5	4.0	1.5 4.0 6.0	000.7545305
2.5	1.5	4.0 1.5 2.0 4.5 1.5	4.0	1.5 6.0 4.0	000.2688116
2.5	1.5	4.0 1.5 2.0 4.5 1.5	4.0	1.5 6.0 6.0	000.6002248
2.5	1.5	4.0 1.5 2.0 4.5 1.5	5.0	1.5 3.0 3.0	000.3673892
2.5	1.5	4.0 1.5 2.0 4.5 1.5	5.0	1.5 3.0 5.0	000.2594995
2.5	1.5	4.0 1.5 2.0 4.5 1.5	5.0	1.5 5.0 3.0	000.3778657
2.5	1.5	4.0 1.5 2.0 4.5 1.5	5.0	1.5 5.0 5.0	000.1976079
2.5	1.5	4.0 1.5 2.0 4.5 1.5	5.0	1.5 5.0 7.0	-000.1447694
2.5	1.5	4.0 1.5 2.0 4.5 1.5	6.0	1.5 4.0 2.0	-000.1392423
2.5	1.5	4.0 1.5 2.0 4.5 1.5	6.0	1.5 4.0 4.0	-000.0014093
2.5	1.5	4.0 1.5 2.0 4.5 1.5	6.0	1.5 4.0 6.0	000.0120845
2.5	1.5	4.0 1.5 2.0 4.5 1.5	6.0	1.5 6.0 4.0	000.0139522
2.5	1.5	4.0 1.5 2.0 4.5 1.5	6.0	1.5 6.0 6.0	000.0096132
2.5	1.5	4.0 1.5 4.0 0.5 0.5	1.0	1.5 1.0 3.0	000.2159797
2.5	1.5	4.0 1.5 4.0 0.5 1.5	1.0	1.5 1.0 3.0	000.7636034
2.5	1.5	4.0 1.5 4.0 0.5 1.5	2.0	1.5 2.0 2.0	000.7666519
2.5	1.5	4.0 1.5 4.0 1.5 0.5	1.0	1.5 1.0 3.0	000.1707469
2.5	1.5	4.0 1.5 4.0 1.5 0.5	1.0	1.5 3.0 3.0	-000.1707469

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	4.0	1.5	4.0	-000.2608203
2.5	1.5	4.0	1.5	4.0	000.4380867
2.5	1.5	4.0	1.5	4.0	000.1863001
2.5	1.5	4.0	1.5	4.0	000.9128709
2.5	1.5	4.0	1.5	4.0	-000.6520505
2.5	1.5	4.0	1.5	4.0	000.4963423
2.5	1.5	4.0	1.5	4.0	-000.4963424
2.5	1.5	4.0	1.5	4.0	-000.3912303
2.5	1.5	4.0	1.5	4.0	000.6571300
2.5	1.5	4.0	1.5	4.0	000.2794500
2.5	1.5	4.0	1.5	4.0	-000.1145402
2.5	1.5	4.0	1.5	4.0	001.1428568
2.5	1.5	4.0	1.5	4.0	000.1145406
2.5	1.5	4.0	1.5	4.0	000.0878122
2.5	1.5	4.0	1.5	4.0	000.2987447
2.5	1.5	4.0	1.5	4.0	-000.2987447
2.5	1.5	4.0	1.5	4.0	-000.2195315
2.5	1.5	4.0	1.5	4.0	-000.1394144
2.5	1.5	4.0	1.5	4.0	-000.3516896
2.5	1.5	4.0	1.5	4.0	000.5476081
2.5	1.5	4.0	1.5	4.0	000.5122404
2.5	1.5	4.0	1.5	4.0	000.1845988
2.5	1.5	4.0	1.5	4.0	000.0763603
2.5	1.5	4.0	1.5	4.0	001.3483997
2.5	1.5	4.0	1.5	4.0	-000.2805658
2.5	1.5	4.0	1.5	4.0	-000.7077624
2.5	1.5	4.0	1.5	4.0	000.1642822
2.5	1.5	4.0	1.5	4.0	000.5589000

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	4.0 1.5 4.0 2.5 1.5 2.0	1.5	4.0 2.0	-000.5589004
2.5	1.5	4.0 1.5 4.0 2.5 1.5 2.0	1.5	4.0 4.0	-000.4107063
2.5	1.5	4.0 1.5 4.0 2.5 1.5 3.0	1.5	1.0 3.0	-000.1246956
2.5	1.5	4.0 1.5 4.0 2.5 1.5 3.0	1.5	1.0 5.0	-000.3145608
2.5	1.5	4.0 1.5 4.0 2.5 1.5 3.0	1.5	3.0 1.0	000.4897955
2.5	1.5	4.0 1.5 4.0 2.5 1.5 3.0	1.5	3.0 3.0	000.4581622
2.5	1.5	4.0 1.5 4.0 2.5 1.5 3.0	1.5	3.0 5.0	000.1651094
2.5	1.5	4.0 1.5 4.0 2.5 1.5 4.0	1.5	2.0 2.0	-000.0000000
2.5	1.5	4.0 1.5 4.0 2.5 1.5 4.0	1.5	2.0 4.0	000.0000000
2.5	1.5	4.0 1.5 4.0 2.5 1.5 4.0	1.5	4.0 2.0	-000.0000000
2.5	1.5	4.0 1.5 4.0 2.5 1.5 4.0	1.5	4.0 4.0	000.0000000
2.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	3.0 1.0	000.0235649
2.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	3.0 3.0	000.1763466
2.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	3.0 5.0	000.3971936
2.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	5.0 1.0	-000.3688557
2.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	5.0 3.0	-000.3943226
2.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	5.0 5.0	-000.2486820
2.5	1.5	4.0 1.5 4.0 3.5 0.5 4.0	1.5	2.0 2.0	-000.0574935
2.5	1.5	4.0 1.5 4.0 3.5 0.5 4.0	1.5	2.0 4.0	-000.2304481
2.5	1.5	4.0 1.5 4.0 3.5 0.5 4.0	1.5	2.0 6.0	-000.4202269
2.5	1.5	4.0 1.5 4.0 3.5 0.5 4.0	1.5	4.0 2.0	000.6427966
2.5	1.5	4.0 1.5 4.0 3.5 0.5 4.0	1.5	4.0 4.0	000.5565225
2.5	1.5	4.0 1.5 4.0 3.5 0.5 4.0	1.5	4.0 6.0	000.1879308
2.5	1.5	4.0 1.5 4.0 3.5 1.5 2.0	1.5	2.0 2.0	000.0091264
2.5	1.5	4.0 1.5 4.0 3.5 1.5 2.0	1.5	2.0 4.0	000.1693638
2.5	1.5	4.0 1.5 4.0 3.5 1.5 2.0	1.5	2.0 6.0	001.6677256
2.5	1.5	4.0 1.5 4.0 3.5 1.5 2.0	1.5	4.0 2.0	-000.1020400
2.5	1.5	4.0 1.5 4.0 3.5 1.5 2.0	1.5	4.0 4.0	-000.4090054

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
2.5	1.5	4.0	1.5	4.0	3.5	1.5	2.0	1.5	4.0	6.0	-000.7458299
2.5	1.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	1.0	000.0340140
2.5	1.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	3.0	000.2545336
2.5	1.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	5.0	000.5732995
2.5	1.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	1.0	-000.5323974
2.5	1.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	3.0	-000.5691560
2.5	1.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	5.0	-000.3589418
2.5	1.5	4.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	2.0	-000.0340137
2.5	1.5	4.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	4.0	-000.1363343
2.5	1.5	4.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	6.0	-000.2486100
2.5	1.5	4.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	2.0	000.3802837
2.5	1.5	4.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	4.0	000.3292436
2.5	1.5	4.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	6.0	000.1111812
2.5	1.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	1.0	000.1064800
2.5	1.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	3.0	000.1138313
2.5	1.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	5.0	000.0717883
2.5	1.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	1.0	-001.6666670
2.5	1.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	3.0	-000.2545341
2.5	1.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	5.0	-000.0449464
2.5	1.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	2.0	000.0458640
2.5	1.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	4.0	000.2481758
2.5	1.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	6.0	000.4788927
2.5	1.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	2.0	-000.0342790
2.5	1.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	4.0	-000.0343499
2.5	1.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	6.0	-000.0204531
2.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	3.0	-000.1001967
2.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	5.0	-000.2994227
2.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	7.0	-000.4777128

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
2.5	1.5	4.0 1.5 4.0 4.5 0.5 5.0	1.5	5.0 3.0	000.7084989
2.5	1.5	4.0 1.5 4.0 4.5 0.5 5.0	1.5	5.0 5.0	000.5928266
2.5	1.5	4.0 1.5 4.0 4.5 0.5 5.0	1.5	5.0 7.0	000.1930250
2.5	1.5	4.0 1.5 4.0 4.5 1.5 3.0	1.5	3.0 3.0	000.0231396
2.5	1.5	4.0 1.5 4.0 4.5 1.5 3.0	1.5	3.0 5.0	000.2469595
2.5	1.5	4.0 1.5 4.0 4.5 1.5 3.0	1.5	3.0 7.0	001.9306547
2.5	1.5	4.0 1.5 4.0 4.5 1.5 3.0	1.5	5.0 3.0	-000.1636197
2.5	1.5	4.0 1.5 4.0 4.5 1.5 3.0	1.5	5.0 5.0	-000.4889544
2.5	1.5	4.0 1.5 4.0 4.5 1.5 3.0	1.5	5.0 7.0	-000.7801018
2.5	1.5	4.0 1.5 4.0 4.5 1.5 4.0	1.5	4.0 2.0	000.0553146
2.5	1.5	4.0 1.5 4.0 4.5 1.5 4.0	1.5	4.0 4.0	000.2993118
2.5	1.5	4.0 1.5 4.0 4.5 1.5 4.0	1.5	4.0 6.0	000.5775663
2.5	1.5	4.0 1.5 4.0 4.5 1.5 4.0	1.5	6.0 2.0	-000.0413420
2.5	1.5	4.0 1.5 4.0 4.5 1.5 4.0	1.5	6.0 4.0	-000.0414274
2.5	1.5	4.0 1.5 4.0 4.5 1.5 4.0	1.5	6.0 6.0	-000.0246672
2.5	1.5	4.0 1.5 4.0 4.5 1.5 5.0	1.5	3.0 3.0	-000.0409045
2.5	1.5	4.0 1.5 4.0 4.5 1.5 5.0	1.5	3.0 5.0	-000.1222376
2.5	1.5	4.0 1.5 4.0 4.5 1.5 5.0	1.5	3.0 7.0	-000.1950264
2.5	1.5	4.0 1.5 4.0 4.5 1.5 5.0	1.5	5.0 3.0	000.2892424
2.5	1.5	4.0 1.5 4.0 4.5 1.5 5.0	1.5	5.0 5.0	000.2420194
2.5	1.5	4.0 1.5 4.0 4.5 1.5 5.0	1.5	5.0 7.0	000.0788024
2.5	1.5	4.0 1.5 4.0 4.5 1.5 6.0	1.5	4.0 2.0	000.0155032
2.5	1.5	4.0 1.5 4.0 4.5 1.5 6.0	1.5	4.0 4.0	000.0155353
2.5	1.5	4.0 1.5 4.0 4.5 1.5 6.0	1.5	4.0 6.0	000.0092503
2.5	1.5	4.0 1.5 4.0 4.5 1.5 6.0	1.5	6.0 2.0	-000.0115873
2.5	1.5	4.0 1.5 4.0 4.5 1.5 6.0	1.5	6.0 4.0	-000.0021502
2.5	1.5	4.0 1.5 4.0 4.5 1.5 6.0	1.5	6.0 6.0	-000.0003951
3.5	0.5	3.0 0.5 3.0 0.5 0.5 0.0	0.5	0.0 3.0	000.3563483

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	0.5	3.0	0.5	3.0	0.5	0.5	1.0	0.5	1.0	4.0	000.4057203
3.5	0.5	3.0	0.5	3.0	0.5	1.5	1.0	0.5	1.0	4.0	000.5737752
3.5	0.5	3.0	0.5	3.0	0.5	1.5	2.0	0.5	0.0	3.0	000.5039527
3.5	0.5	3.0	0.5	3.0	1.5	0.5	1.0	0.5	1.0	2.0	000.5111012
3.5	0.5	3.0	0.5	3.0	1.5	0.5	1.0	0.5	1.0	4.0	000.1159201
3.5	0.5	3.0	0.5	3.0	1.5	0.5	2.0	0.5	2.0	3.0	000.2375654
3.5	0.5	3.0	0.5	3.0	1.5	0.5	2.0	0.5	2.0	5.0	000.5992887
3.5	0.5	3.0	0.5	3.0	1.5	1.5	0.0	0.5	2.0	3.0	-000.7126966
3.5	0.5	3.0	0.5	3.0	1.5	1.5	1.0	0.5	1.0	2.0	-000.9142857
3.5	0.5	3.0	0.5	3.0	1.5	1.5	1.0	0.5	1.0	4.0	000.8812979
3.5	0.5	3.0	0.5	3.0	1.5	1.5	2.0	0.5	2.0	3.0	-000.2375654
3.5	0.5	3.0	0.5	3.0	1.5	1.5	2.0	0.5	2.0	5.0	001.1985773
3.5	0.5	3.0	0.5	3.0	1.5	1.5	3.0	0.5	1.0	2.0	000.4571429
3.5	0.5	3.0	0.5	3.0	1.5	1.5	3.0	0.5	1.0	4.0	000.4665695
3.5	0.5	3.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	1.0	000.5714285
3.5	0.5	3.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	3.0	000.1187827
3.5	0.5	3.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	5.0	000.0428061
3.5	0.5	3.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	2.0	000.1987614
3.5	0.5	3.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	4.0	000.3319529
3.5	0.5	3.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	6.0	000.7412111
3.5	0.5	3.0	0.5	3.0	2.5	1.5	1.0	0.5	3.0	2.0	-000.5598831
3.5	0.5	3.0	0.5	3.0	2.5	1.5	1.0	0.5	3.0	4.0	-000.5714284
3.5	0.5	3.0	0.5	3.0	2.5	1.5	2.0	0.5	2.0	1.0	-001.2217653
3.5	0.5	3.0	0.5	3.0	2.5	1.5	2.0	0.5	2.0	3.0	000.6984123
3.5	0.5	3.0	0.5	3.0	2.5	1.5	2.0	0.5	2.0	5.0	000.8694761
3.5	0.5	3.0	0.5	3.0	2.5	1.5	3.0	0.5	3.0	2.0	-000.2412695
3.5	0.5	3.0	0.5	3.0	2.5	1.5	3.0	0.5	3.0	4.0	000.0424154
3.5	0.5	3.0	0.5	3.0	2.5	1.5	3.0	0.5	3.0	6.0	001.6573993

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
3.5	0.5	3.0	0.5	3.0	2.5	1.5	4.0	0.5	2.0	1.0	000.3740875
3.5	0.5	3.0	0.5	3.0	2.5	1.5	4.0	0.5	2.0	3.0	000.4665693
3.5	0.5	3.0	0.5	3.0	2.5	1.5	4.0	0.5	2.0	5.0	000.4203495
3.5	0.5	3.0	0.5	3.0	3.5	0.5	3.0	0.5	3.0	2.0	000.0000000
3.5	0.5	3.0	0.5	3.0	3.5	0.5	3.0	0.5	3.0	4.0	-000.0000000
3.5	0.5	3.0	0.5	3.0	3.5	0.5	3.0	0.5	3.0	6.0	000.0000000
3.5	0.5	3.0	0.5	3.0	3.5	0.5	4.0	0.5	4.0	1.0	000.1693117
3.5	0.5	3.0	0.5	3.0	3.5	0.5	4.0	0.5	4.0	3.0	000.2591625
3.5	0.5	3.0	0.5	3.0	3.5	0.5	4.0	0.5	4.0	5.0	000.3951352
3.5	0.5	3.0	0.5	3.0	3.5	0.5	4.0	0.5	4.0	7.0	000.8580693
3.5	0.5	3.0	0.5	3.0	3.5	1.5	2.0	0.5	4.0	1.0	-000.4319590
3.5	0.5	3.0	0.5	3.0	3.5	1.5	2.0	0.5	4.0	3.0	-000.5387479
3.5	0.5	3.0	0.5	3.0	3.5	1.5	2.0	0.5	4.0	5.0	-000.4853786
3.5	0.5	3.0	0.5	3.0	3.5	1.5	3.0	0.5	3.0	2.0	000.8196789
3.5	0.5	3.0	0.5	3.0	3.5	1.5	3.0	0.5	3.0	4.0	000.9856445
3.5	0.5	3.0	0.5	3.0	3.5	1.5	3.0	0.5	3.0	6.0	000.8558772
3.5	0.5	3.0	0.5	3.0	3.5	1.5	4.0	0.5	4.0	1.0	-000.1788684
3.5	0.5	3.0	0.5	3.0	3.5	1.5	4.0	0.5	4.0	3.0	-000.1095158
3.5	0.5	3.0	0.5	3.0	3.5	1.5	4.0	0.5	4.0	5.0	000.2839578
3.5	0.5	3.0	0.5	3.0	3.5	1.5	4.0	0.5	4.0	7.0	002.0305621
3.5	0.5	3.0	0.5	3.0	3.5	1.5	5.0	0.5	3.0	2.0	000.3665712
3.5	0.5	3.0	0.5	3.0	3.5	1.5	5.0	0.5	3.0	4.0	000.4407932
3.5	0.5	3.0	0.5	3.0	3.5	1.5	5.0	0.5	3.0	6.0	000.3827595
3.5	0.5	3.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	1.0	-000.7407399
3.5	0.5	3.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	3.0	-000.1619765
3.5	0.5	3.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	5.0	-000.0691488
3.5	0.5	3.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	7.0	-000.0306452
3.5	0.5	3.0	0.5	3.0	4.5	0.5	5.0	0.5	5.0	2.0	000.1935989

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	0.5	3.0 0.5	3.0 4.5	0.5 5.0	000.2954743
3.5	0.5	3.0 0.5	3.0 4.5	0.5 5.0 6.0	000.4447261
3.5	0.5	3.0 0.5	3.0 4.5	0.5 5.0 8.0	000.9596319
3.5	0.5	3.0 0.5	3.0 4.5 1.5	3.0 0.5 5.0 2.0	-000.4098391
3.5	0.5	3.0 0.5	3.0 4.5 1.5	3.0 0.5 5.0 4.0	-000.4928221
3.5	0.5	3.0 0.5	3.0 4.5 1.5	3.0 0.5 5.0 6.0	-000.4279382
3.5	0.5	3.0 0.5	3.0 4.5 1.5	4.0 0.5 4.0 1.0	002.4567594
3.5	0.5	3.0 0.5	3.0 4.5 1.5	4.0 0.5 4.0 3.0	001.2697813
3.5	0.5	3.0 0.5	3.0 4.5 1.5	4.0 0.5 4.0 5.0	001.1050032
3.5	0.5	3.0 0.5	3.0 4.5 1.5	4.0 0.5 4.0 7.0	000.8500719
3.5	0.5	3.0 0.5	3.0 4.5 1.5	5.0 0.5 5.0 2.0	-000.1053819
3.5	0.5	3.0 0.5	3.0 4.5 1.5	5.0 0.5 5.0 4.0	000.0268055
3.5	0.5	3.0 0.5	3.0 4.5 1.5	5.0 0.5 5.0 6.0	000.4841569
3.5	0.5	3.0 0.5	3.0 4.5 1.5	5.0 0.5 5.0 8.0	002.3506094
3.5	0.5	3.0 0.5	3.0 4.5 1.5	6.0 0.5 4.0 3.0	000.3453354
3.5	0.5	3.0 0.5	3.0 4.5 1.5	6.0 0.5 4.0 5.0	000.4127920
3.5	0.5	3.0 0.5	3.0 4.5 1.5	6.0 0.5 4.0 7.0	000.3528138
3.5	0.5	3.0 1.5	3.0 0.5 0.5	0.0 1.5 2.0 3.0	-000.1454786
3.5	0.5	3.0 1.5	3.0 0.5 0.5	1.0 1.5 1.0 4.0	-000.1656346
3.5	0.5	3.0 1.5	3.0 0.5 1.5	1.0 1.5 1.0 4.0	-000.2342428
3.5	0.5	3.0 1.5	3.0 0.5 1.5	2.0 1.5 2.0 3.0	-000.2057378
3.5	0.5	3.0 1.5	3.0 1.5 0.5	1.0 1.5 1.0 2.0	000.3958972
3.5	0.5	3.0 1.5	3.0 1.5 0.5	1.0 1.5 1.0 4.0	-000.1197218
3.5	0.5	3.0 1.5	3.0 1.5 0.5	1.0 1.5 3.0 2.0	-000.0879771
3.5	0.5	3.0 1.5	3.0 1.5 0.5	1.0 1.5 3.0 4.0	-000.0897914
3.5	0.5	3.0 1.5	3.0 1.5 0.5	2.0 1.5 0.0 3.0	000.4114756
3.5	0.5	3.0 1.5	3.0 1.5 0.5	2.0 1.5 2.0 3.0	000.2743171
3.5	0.5	3.0 1.5	3.0 1.5 0.5	2.0 1.5 2.0 5.0	-000.3459990

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
3.5	0.5	3.0	1.5	3.0	1.5	1.5	0.0	1.5	0.0	3.0	-001.2344268
3.5	0.5	3.0	1.5	3.0	1.5	1.5	0.0	1.5	2.0	3.0	-000.8229511
3.5	0.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	1.0	2.0	-000.7082026
3.5	0.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	1.0	4.0	-000.9102005
3.5	0.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	3.0	2.0	000.1573782
3.5	0.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	3.0	4.0	-000.6826500
3.5	0.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	0.0	3.0	-000.4114755
3.5	0.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	3.0	-000.2743171
3.5	0.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	5.0	-000.6919991
3.5	0.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	1.0	2.0	000.3541013
3.5	0.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	1.0	4.0	-000.4818709
3.5	0.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	2.0	-000.0786893
3.5	0.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	4.0	-000.3614030
3.5	0.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	1.0	000.5290401
3.5	0.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	3.0	000.0183285
3.5	0.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	5.0	-000.0528410
3.5	0.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	1.0	-000.0359966
3.5	0.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	3.0	-000.0448956
3.5	0.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	5.0	-000.0404477
3.5	0.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	1.0	2.0	000.3771247
3.5	0.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	1.0	4.0	000.3849000
3.5	0.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	2.0	000.3335799
3.5	0.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	4.0	000.2571296
3.5	0.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	6.0	-000.4784495
3.5	0.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	1.0	2.0	-001.0623038
3.5	0.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	1.0	4.0	-000.6625723
3.5	0.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	3.0	2.0	-000.9396482
3.5	0.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	3.0	4.0	-000.4426263

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	0.5	3.0 1.5 3.0 2.5 1.5 2.0	1.5 2.0	1.0	-001.1311350
3.5	0.5	3.0 1.5 3.0 2.5 1.5 2.0	1.5 2.0	3.0	000.1077675
3.5	0.5	3.0 1.5 3.0 2.5 1.5 2.0	1.5 2.0	5.0	-001.0713042
3.5	0.5	3.0 1.5 3.0 2.5 1.5 2.0	1.5 4.0	1.0	000.0769640
3.5	0.5	3.0 1.5 3.0 2.5 1.5 2.0	1.5 4.0	3.0	-000.2639746
3.5	0.5	3.0 1.5 3.0 2.5 1.5 2.0	1.5 4.0	5.0	-000.8215772
3.5	0.5	3.0 1.5 3.0 2.5 1.5 3.0	1.5 1.0	2.0	-000.4577771
3.5	0.5	3.0 1.5 3.0 2.5 1.5 3.0	1.5 1.0	4.0	000.0491808
3.5	0.5	3.0 1.5 3.0 2.5 1.5 3.0	1.5 3.0	2.0	-000.4049213
3.5	0.5	3.0 1.5 3.0 2.5 1.5 3.0	1.5 3.0	4.0	000.0328546
3.5	0.5	3.0 1.5 3.0 2.5 1.5 3.0	1.5 3.0	6.0	-001.0698461
3.5	0.5	3.0 1.5 3.0 2.5 1.5 4.0	1.5 2.0	1.0	000.3463378
3.5	0.5	3.0 1.5 3.0 2.5 1.5 4.0	1.5 2.0	3.0	000.0715933
3.5	0.5	3.0 1.5 3.0 2.5 1.5 4.0	1.5 2.0	5.0	-000.1188909
3.5	0.5	3.0 1.5 3.0 2.5 1.5 4.0	1.5 4.0	1.0	-000.0235649
3.5	0.5	3.0 1.5 3.0 2.5 1.5 4.0	1.5 4.0	3.0	-000.1763466
3.5	0.5	3.0 1.5 3.0 2.5 1.5 4.0	1.5 4.0	5.0	-000.1971946
3.5	0.5	3.0 1.5 3.0 3.5 0.5 3.0	1.5 3.0	2.0	000.0000000
3.5	0.5	3.0 1.5 3.0 3.5 0.5 3.0	1.5 3.0	4.0	000.0000000
3.5	0.5	3.0 1.5 3.0 3.5 0.5 3.0	1.5 3.0	6.0	000.0000000
3.5	0.5	3.0 1.5 3.0 3.5 0.5 3.0	1.5 5.0	2.0	000.0000000
3.5	0.5	3.0 1.5 3.0 3.5 0.5 3.0	1.5 5.0	4.0	000.0000000
3.5	0.5	3.0 1.5 3.0 3.5 0.5 3.0	1.5 5.0	6.0	000.0000000
3.5	0.5	3.0 1.5 3.0 3.5 0.5 4.0	1.5 2.0	1.0	000.3325223
3.5	0.5	3.0 1.5 3.0 3.5 0.5 4.0	1.5 2.0	3.0	000.4147286
3.5	0.5	3.0 1.5 3.0 3.5 0.5 4.0	1.5 2.0	5.0	000.3736441
3.5	0.5	3.0 1.5 3.0 3.5 0.5 4.0	1.5 4.0	1.0	000.3304635
3.5	0.5	3.0 1.5 3.0 3.5 0.5 4.0	1.5 4.0	3.0	000.3793749

J_1 , S''	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
3.5	0.5	3.0 1.5 3.0 3.5 0.5	4.0	1.5 4.0 5.0	000.2313675
3.5	0.5	3.0 1.5 3.0 3.5 0.5	4.0	1.5 4.0 7.0	-000.5861729
3.5	0.5	3.0 1.5 3.0 3.5 1.5	2.0	1.5 2.0 1.0	-000.8483509
3.5	0.5	3.0 1.5 3.0 3.5 1.5	2.0	1.5 2.0 3.0	-000.8621393
3.5	0.5	3.0 1.5 3.0 3.5 1.5	2.0	1.5 2.0 5.0	-000.4589786
3.5	0.5	3.0 1.5 3.0 3.5 1.5	2.0	1.5 4.0 1.0	-000.8430986
3.5	0.5	3.0 1.5 3.0 3.5 1.5	2.0	1.5 4.0 3.0	-000.7886463
3.5	0.5	3.0 1.5 3.0 3.5 1.5	2.0	1.5 4.0 5.0	-000.2842085
3.5	0.5	3.0 1.5 3.0 3.5 1.5	3.0	1.5 3.0 2.0	000.5464527
3.5	0.5	3.0 1.5 3.0 3.5 1.5	3.0	1.5 3.0 4.0	-000.1095154
3.5	0.5	3.0 1.5 3.0 3.5 1.5	3.0	1.5 3.0 6.0	-001.1411693
3.5	0.5	3.0 1.5 3.0 3.5 1.5	3.0	1.5 5.0 2.0	-000.1221897
3.5	0.5	3.0 1.5 3.0 3.5 1.5	3.0	1.5 5.0 4.0	-000.4897704
3.5	0.5	3.0 1.5 3.0 3.5 1.5	3.0	1.5 5.0 6.0	-000.8931058
3.5	0.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 2.0 1.0	-000.3512904
3.5	0.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 2.0 3.0	-000.1752547
3.5	0.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 2.0 5.0	000.2684186
3.5	0.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 4.0 1.0	-000.3491150
3.5	0.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 4.0 3.0	-000.1603148
3.5	0.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 4.0 5.0	000.1662097
3.5	0.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 4.0 7.0	-001.3871373
3.5	0.5	3.0 1.5 3.0 3.5 1.5	5.0	1.5 3.0 2.0	000.2443804
3.5	0.5	3.0 1.5 3.0 3.5 1.5	5.0	1.5 3.0 4.0	-000.0489772
3.5	0.5	3.0 1.5 3.0 3.5 1.5	5.0	1.5 3.0 6.0	-000.5103463
3.5	0.5	3.0 1.5 3.0 3.5 1.5	5.0	1.5 5.0 2.0	-000.0546445
3.5	0.5	3.0 1.5 3.0 3.5 1.5	5.0	1.5 5.0 4.0	-000.2190322
3.5	0.5	3.0 1.5 3.0 3.5 1.5	5.0	1.5 5.0 6.0	-000.3994087
3.5	0.5	3.0 1.5 4.5 0.5 4.0	1.5	4.0 1.0	-000.7092046

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	0.5	3.0 1.5 3.0 4.5 0.5	4.0	1.5 4.0 3.0	-000.0845893
3.5	0.5	3.0 1.5 3.0 4.5 0.5	4.0	1.5 4.0 5.0	000.0180553
3.5	0.5	3.0 1.5 3.0 4.5 0.5	4.0	1.5 4.0 7.0	000.0426767
3.5	0.5	3.0 1.5 3.0 4.5 0.5	4.0	1.5 6.0 3.0	000.0332293
3.5	0.5	3.0 1.5 3.0 4.5 0.5	4.0	1.5 6.0 5.0	000.0397203
3.5	0.5	3.0 1.5 3.0 4.5 0.5	4.0	1.5 6.0 7.0	000.0339489
3.5	0.5	3.0 1.5 3.0 4.5 0.5	5.0	1.5 3.0 2.0	000.3549309
3.5	0.5	3.0 1.5 3.0 4.5 0.5	5.0	1.5 3.0 4.0	000.4267969
3.5	0.5	3.0 1.5 3.0 4.5 0.5	5.0	1.5 3.0 6.0	000.3706055
3.5	0.5	3.0 1.5 3.0 4.5 0.5	5.0	1.5 5.0 2.0	000.3650527
3.5	0.5	3.0 1.5 3.0 4.5 0.5	5.0	1.5 5.0 4.0	000.3946490
3.5	0.5	3.0 1.5 3.0 4.5 0.5	5.0	1.5 5.0 6.0	000.2096457
3.5	0.5	3.0 1.5 3.0 4.5 0.5	5.0	1.5 5.0 8.0	-000.6785622
3.5	0.5	3.0 1.5 3.0 4.5 1.5	3.0	1.5 3.0 2.0	-000.7513721
3.5	0.5	3.0 1.5 3.0 4.5 1.5	3.0	1.5 3.0 4.0	-000.7118543
3.5	0.5	3.0 1.5 3.0 4.5 1.5	3.0	1.5 3.0 6.0	-000.3566151
3.5	0.5	3.0 1.5 3.0 4.5 1.5	3.0	1.5 5.0 2.0	-000.7728002
3.5	0.5	3.0 1.5 3.0 4.5 1.5	4.0	1.5 5.0 4.0	-000.6582363
3.5	0.5	3.0 1.5 3.0 4.5 1.5	4.0	1.5 5.0 6.0	-000.2017319
3.5	0.5	3.0 1.5 3.0 4.5 1.5	4.0	1.5 4.0 1.0	002.3521671
3.5	0.5	3.0 1.5 3.0 4.5 1.5	4.0	1.5 4.0 3.0	000.6631211
3.5	0.5	3.0 1.5 3.0 4.5 1.5	4.0	1.5 4.0 5.0	-000.2885339
3.5	0.5	3.0 1.5 3.0 4.5 1.5	4.0	1.5 4.0 7.0	-001.1838277
3.5	0.5	3.0 1.5 3.0 4.5 1.5	4.0	1.5 6.0 3.0	-000.2604994
3.5	0.5	3.0 1.5 3.0 4.5 1.5	4.0	1.5 6.0 5.0	-000.6347428
3.5	0.5	3.0 1.5 3.0 4.5 1.5	4.0	1.5 6.0 7.0	-000.9417283
3.5	0.5	3.0 1.5 3.0 4.5 1.5	5.0	1.5 3.0 2.0	-000.1932008
3.5	0.5	3.0 1.5 3.0 4.5 1.5	5.0	1.5 3.0 4.0	000.0387194

J_1 , S''	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
3.5	0.5	3.0 1.5	3.0 4.5 1.5	5.0 1.5 3.0 6.0	000.4034637
3.5	0.5	3.0 1.5	3.0 4.5 1.5	5.0 1.5 5.0 2.0	-000.1987088
3.5	0.5	3.0 1.5	3.0 4.5 1.5	5.0 1.5 5.0 4.0	000.0358028
3.5	0.5	3.0 1.5	3.0 4.5 1.5	5.0 1.5 5.0 6.0	000.2282340
3.5	0.5	3.0 1.5	3.0 4.5 1.5	5.0 1.5 5.0 8.0	-001.6621317
3.5	0.5	3.0 1.5	3.0 4.5 1.5	6.0 1.5 4.0 3.0	000.1803440
3.5	0.5	3.0 1.5	3.0 4.5 1.5	6.0 1.5 4.0 5.0	-000.1077870
3.5	0.5	3.0 1.5	3.0 4.5 1.5	6.0 1.5 4.0 7.0	-000.4913369
3.5	0.5	3.0 1.5	3.0 4.5 1.5	6.0 1.5 6.0 3.0	-000.0708452
3.5	0.5	3.0 1.5	3.0 4.5 1.5	6.0 1.5 6.0 5.0	-000.2371192
3.5	0.5	3.0 1.5	3.0 4.5 1.5	6.0 1.5 6.0 7.0	-000.3908553
3.5	0.5	3.0 1.5	5.0 0.5 0.5 0.0	1.5 2.0 3.0	000.3253000
3.5	0.5	3.0 1.5	5.0 0.5 0.5 1.0	1.5 1.0 4.0	000.3703704
3.5	0.5	3.0 1.5	5.0 0.5 1.5 1.0	1.5 1.0 4.0	000.5237827
3.5	0.5	3.0 1.5	5.0 0.5 1.5 2.0	1.5 2.0 3.0	000.4600437
3.5	0.5	3.0 1.5	5.0 1.5 0.5 1.0	1.5 1.0 4.0	-000.0936971
3.5	0.5	3.0 1.5	5.0 1.5 0.5 1.0	1.5 3.0 2.0	000.4918073
3.5	0.5	3.0 1.5	5.0 1.5 0.5 1.0	1.5 3.0 4.0	000.0803117
3.5	0.5	3.0 1.5	5.0 1.5 0.5 2.0	1.5 0.0 5.0	-000.4642071
3.5	0.5	3.0 1.5	5.0 1.5 0.5 2.0	1.5 2.0 3.0	000.3066958
3.5	0.5	3.0 1.5	5.0 1.5 0.5 2.0	1.5 2.0 5.0	000.3094712
3.5	0.5	3.0 1.5	5.0 1.5 1.5 0.0	1.5 2.0 3.0	-000.9200873
3.5	0.5	3.0 1.5	5.0 1.5 1.5 1.0	1.5 1.0 4.0	-000.7123445
3.5	0.5	3.0 1.5	5.0 1.5 1.5 1.0	1.5 3.0 2.0	-000.8797716
3.5	0.5	3.0 1.5	5.0 1.5 1.5 1.0	1.5 3.0 4.0	000.6105811
3.5	0.5	3.0 1.5	5.0 1.5 1.5 2.0	1.5 0.0 5.0	-000.9284141
3.5	0.5	3.0 1.5	5.0 1.5 1.5 2.0	1.5 2.0 3.0	-000.3066957
3.5	0.5	3.0 1.5	5.0 1.5 1.5 2.0	1.5 2.0 5.0	000.6189425

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	0.5	3.0	1.5	5.0	1.5	1.5	3.0	1.5	1.0	4.0	-000.3771234
3.5	0.5	3.0	1.5	5.0	1.5	1.5	3.0	1.5	3.0	2.0	000.4398850
3.5	0.5	3.0	1.5	5.0	1.5	1.5	3.0	1.5	3.0	4.0	000.3232485
3.5	0.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	2.0	3.0	-000.0409838
3.5	0.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	2.0	5.0	-000.0413545
3.5	0.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	4.0	1.0	000.5634360
3.5	0.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	4.0	3.0	000.1003894
3.5	0.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	4.0	5.0	000.0253242
3.5	0.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	1.0	4.0	-000.1095388
3.5	0.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	1.0	6.0	-000.6289338
3.5	0.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	2.0	000.2868876
3.5	0.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	4.0	000.3449755
3.5	0.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	6.0	000.2995566
3.5	0.5	3.0	1.5	5.0	2.5	1.5	1.0	1.5	1.0	4.0	000.1885617
3.5	0.5	3.0	1.5	5.0	2.5	1.5	1.0	1.5	3.0	2.0	-000.8081220
3.5	0.5	3.0	1.5	5.0	2.5	1.5	1.0	1.5	3.0	4.0	-000.5938455
3.5	0.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	2.0	3.0	-000.2409754
3.5	0.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	2.0	5.0	-000.8399933
3.5	0.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	4.0	1.0	-001.2046772
3.5	0.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	4.0	3.0	000.5902660
3.5	0.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	4.0	5.0	000.5142890
3.5	0.5	3.0	1.5	5.0	2.5	1.5	3.0	1.5	1.0	4.0	-000.0139962
3.5	0.5	3.0	1.5	5.0	2.5	1.5	3.0	1.5	1.0	6.0	-001.4063498
3.5	0.5	3.0	1.5	5.0	2.5	1.5	3.0	1.5	3.0	2.0	-000.3482426
3.5	0.5	3.0	1.5	5.0	2.5	1.5	3.0	1.5	3.0	4.0	000.0440791
3.5	0.5	3.0	1.5	5.0	2.5	1.5	3.0	1.5	3.0	6.0	000.6698293
3.5	0.5	3.0	1.5	5.0	2.5	1.5	4.0	1.5	2.0	3.0	-000.1609820
3.5	0.5	3.0	1.5	5.0	2.5	1.5	4.0	1.5	2.0	5.0	-000.4060962

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
3.5	0.5	3.0 1.5 5.0	2.5	1.5	4.0	1.5	000.3688557
3.5	0.5	3.0 1.5 5.0	2.5	1.5	4.0	3.0	000.3943226
3.5	0.5	3.0 1.5 5.0	2.5	1.5	4.0	5.0	000.2486820
3.5	0.5	3.0 1.5 5.0	3.5	0.5	3.0	2.0	000.0000000
3.5	0.5	3.0 1.5 5.0	3.5	0.5	3.0	4.0	000.0000000
3.5	0.5	3.0 1.5 5.0	3.5	0.5	3.0	6.0	000.0000000
3.5	0.5	3.0 1.5 5.0	3.5	0.5	3.0	2.0	000.0000000
3.5	0.5	3.0 1.5 5.0	3.5	0.5	3.0	4.0	000.0000000
3.5	0.5	3.0 1.5 5.0	3.5	0.5	3.0	6.0	000.0000000
3.5	0.5	3.0 1.5 5.0	3.5	0.5	4.0	2.0	-000.0421525
3.5	0.5	3.0 1.5 5.0	3.5	0.5	4.0	5.0	-000.1799525
3.5	0.5	3.0 1.5 5.0	3.5	0.5	4.0	7.0	-000.7536508
3.5	0.5	3.0 1.5 5.0	3.5	0.5	4.0	1.0	000.2586285
3.5	0.5	3.0 1.5 5.0	3.5	0.5	4.0	3.0	000.3393228
3.5	0.5	3.0 1.5 5.0	3.5	0.5	4.0	5.0	000.3621472
3.5	0.5	3.0 1.5 5.0	3.5	0.5	4.0	7.0	000.2995933
3.5	0.5	3.0 1.5 5.0	3.5	1.5	2.0	3.0	000.0876269
3.5	0.5	3.0 1.5 5.0	3.5	1.5	2.0	5.0	000.2210510
3.5	0.5	3.0 1.5 5.0	3.5	1.5	2.0	1.0	-000.6598290
3.5	0.5	3.0 1.5 5.0	3.5	1.5	2.0	3.0	-000.7053858
3.5	0.5	3.0 1.5 5.0	3.5	1.5	2.0	5.0	-000.4448561
3.5	0.5	3.0 1.5 5.0	3.5	1.5	3.0	2.0	-000.1221897
3.5	0.5	3.0 1.5 5.0	3.5	1.5	3.0	4.0	-000.4897704
3.5	0.5	3.0 1.5 5.0	3.5	1.5	3.0	6.0	-000.8931058
3.5	0.5	3.0 1.5 5.0	3.5	1.5	3.0	2.0	000.0695485
3.5	0.5	3.0 1.5 5.0	3.5	1.5	3.0	4.0	000.0696921
3.5	0.5	3.0 1.5 5.0	3.5	1.5	3.0	6.0	000.0414970
3.5	0.5	3.0 1.5 5.0	3.5	1.5	4.0	3.0	000.0178129

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	0.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	5.0	-000.1292743
3.5	0.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	7.0	-001.7834628
3.5	0.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	1.0	-000.2732254
3.5	0.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	3.0	-000.1433897
3.5	0.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	5.0	000.2601605
3.5	0.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	7.0	000.7089674
3.5	0.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	2.0	-000.0546445
3.5	0.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	4.0	-000.2190322
3.5	0.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	6.0	-000.3994087
3.5	0.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	2.0	000.0311031
3.5	0.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	4.0	000.0311672
3.5	0.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	6.0	000.0185580
3.5	0.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	1.0	000.0288327
3.5	0.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	3.0	000.0378295
3.5	0.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	5.0	000.0403744
3.5	0.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	7.0	000.0333993
3.5	0.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	1.0	-000.1201943
3.5	0.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	3.0	-000.0238490
3.5	0.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	5.0	-000.0083113
3.5	0.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	7.0	-000.0024862
3.5	0.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	2.0	-000.0144292
3.5	0.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	4.0	-000.0734112
3.5	0.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	6.0	-000.2320361
3.5	0.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	8.0	-000.8583209
3.5	0.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	2.0	000.0259726
3.5	0.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	4.0	000.0330333
3.5	0.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	6.0	000.0340933
3.5	0.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	8.0	000.0275874

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	0.5	3.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	2.0	000.0305469
3.5	0.5	3.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	4.0	000.1224418
3.5	0.5	3.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	6.0	000.2232764
3.5	0.5	3.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	2.0	-000.0549829
3.5	0.5	3.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	4.0	-000.0550965
3.5	0.5	3.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	6.0	-000.0328063
3.5	0.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	1.0	-000.0956291
3.5	0.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	3.0	-000.2965569
3.5	0.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	5.0	-000.6451813
3.5	0.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	7.0	-000.9264916
3.5	0.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	1.0	000.3986396
3.5	0.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	3.0	000.1869603
3.5	0.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	5.0	000.1328153
3.5	0.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	7.0	000.0689672
3.5	0.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	2.0	000.0078543
3.5	0.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	4.0	-000.0066591
3.5	0.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	6.0	-000.2526072
3.5	0.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	8.0	-002.1024486
3.5	0.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	2.0	-000.0141377
3.5	0.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	4.0	000.0029968
3.5	0.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	6.0	000.0371160
3.5	0.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	8.0	000.0675753
3.5	0.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	3.0	-000.0806525
3.5	0.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	5.0	-000.2410169
3.5	0.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	7.0	-000.3845304
3.5	0.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	3.0	000.0508463
3.5	0.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	5.0	000.0496150
3.5	0.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	7.0	000.0286240

J_1	, S"	ℓ_1'	, S	ℓ_1	; J_2	, S'	ℓ_2'	, S	ℓ_2	; L	H
3.5	0.5	4.0	0.5	4.0	0.5	0.5	0.0	0.5	0.0	4.0	-000.4057204
3.5	0.5	4.0	0.5	4.0	0.5	0.5	1.0	0.5	1.0	3.0	-000.3563483
3.5	0.5	4.0	0.5	4.0	0.5	1.5	1.0	0.5	1.0	3.0	-000.5039526
3.5	0.5	4.0	0.5	4.0	0.5	1.5	2.0	0.5	0.0	4.0	-000.5737753
3.5	0.5	4.0	0.5	4.0	1.5	0.5	1.0	0.5	1.0	3.0	-000.2375654
3.5	0.5	4.0	0.5	4.0	1.5	0.5	1.0	0.5	1.0	5.0	-000.5992887
3.5	0.5	4.0	0.5	4.0	1.5	0.5	2.0	0.5	2.0	2.0	-000.5111012
3.5	0.5	4.0	0.5	4.0	1.5	0.5	2.0	0.5	2.0	4.0	-000.1159200
3.5	0.5	4.0	0.5	4.0	1.5	1.5	0.0	0.5	2.0	4.0	000.8114408
3.5	0.5	4.0	0.5	4.0	1.5	1.5	1.0	0.5	1.0	3.0	-000.5312126
3.5	0.5	4.0	0.5	4.0	1.5	1.5	1.0	0.5	1.0	5.0	001.0720403
3.5	0.5	4.0	0.5	4.0	1.5	1.5	2.0	0.5	2.0	2.0	-001.0222025
3.5	0.5	4.0	0.5	4.0	1.5	1.5	2.0	0.5	2.0	4.0	000.5796007
3.5	0.5	4.0	0.5	4.0	1.5	1.5	3.0	0.5	1.0	3.0	-000.5312128
3.5	0.5	4.0	0.5	4.0	1.5	1.5	3.0	0.5	1.0	5.0	-000.5360200
3.5	0.5	4.0	0.5	4.0	2.5	0.5	2.0	0.5	2.0	2.0	-000.1987615
3.5	0.5	4.0	0.5	4.0	2.5	0.5	2.0	0.5	2.0	4.0	-000.3319527
3.5	0.5	4.0	0.5	4.0	2.5	0.5	2.0	0.5	2.0	6.0	-000.7412114
3.5	0.5	4.0	0.5	4.0	2.5	0.5	3.0	0.5	3.0	1.0	-000.5714284
3.5	0.5	4.0	0.5	4.0	2.5	0.5	3.0	0.5	3.0	3.0	-000.1187827
3.5	0.5	4.0	0.5	4.0	2.5	0.5	3.0	0.5	3.0	5.0	-000.0428060
3.5	0.5	4.0	0.5	4.0	2.5	1.5	1.0	0.5	3.0	3.0	000.6505997
3.5	0.5	4.0	0.5	4.0	2.5	1.5	1.0	0.5	3.0	5.0	000.6564880
3.5	0.5	4.0	0.5	4.0	2.5	1.5	2.0	0.5	2.0	2.0	-000.3946148
3.5	0.5	4.0	0.5	4.0	2.5	1.5	2.0	0.5	2.0	4.0	-000.1267402
3.5	0.5	4.0	0.5	4.0	2.5	1.5	2.0	0.5	2.0	6.0	001.5847766
3.5	0.5	4.0	0.5	4.0	2.5	1.5	3.0	0.5	3.0	1.0	-001.2777529
3.5	0.5	4.0	0.5	4.0	2.5	1.5	3.0	0.5	3.0	3.0	000.5312131

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	0.5	4.0 0.5	4.0 2.5	1.5 3.0 0.5	3.0 5.0 000.7083123
3.5	0.5	4.0 0.5	4.0 2.5	1.5 4.0 0.5	2.0 2.0 -000.4647141
3.5	0.5	4.0 0.5	4.0 2.5	1.5 4.0 0.5	2.0 4.0 -000.5588081
3.5	0.5	4.0 0.5	4.0 2.5	1.5 4.0 0.5	2.0 6.0 -000.4852369
3.5	0.5	4.0 0.5	4.0 3.5	0.5 3.0 0.5	3.0 1.0 -000.1693117
3.5	0.5	4.0 0.5	4.0 3.5	0.5 3.0 0.5	3.0 3.0 -000.2591625
3.5	0.5	4.0 0.5	4.0 3.5	0.5 3.0 0.5	3.0 5.0 -000.3951352
3.5	0.5	4.0 0.5	4.0 3.5	0.5 3.0 0.5	3.0 7.0 -000.8580693
3.5	0.5	4.0 0.5	4.0 3.5	0.5 4.0 0.5	2.0 000.0000000
3.5	0.5	4.0 0.5	4.0 3.5	0.5 4.0 0.5	4.0 000.0000000
3.5	0.5	4.0 0.5	4.0 3.5	0.5 4.0 0.5	6.0 000.0000000
3.5	0.5	4.0 0.5	4.0 3.5	1.5 2.0 0.5	4.0 2.0 000.5366056
3.5	0.5	4.0 0.5	4.0 3.5	1.5 2.0 0.5	4.0 4.0 000.6452556
3.5	0.5	4.0 0.5	4.0 3.5	1.5 2.0 0.5	4.0 6.0 000.5603026
3.5	0.5	4.0 0.5	4.0 3.5	1.5 3.0 0.5	3.0 1.0 -000.2688192
3.5	0.5	4.0 0.5	4.0 3.5	1.5 3.0 0.5	3.0 3.0 -000.2244407
3.5	0.5	4.0 0.5	4.0 3.5	1.5 3.0 0.5	3.0 5.0 000.1710986
3.5	0.5	4.0 0.5	4.0 3.5	1.5 3.0 0.5	3.0 7.0 001.9816255
3.5	0.5	4.0 0.5	4.0 3.5	1.5 4.0 0.5	2.0 000.7199320
3.5	0.5	4.0 0.5	4.0 3.5	1.5 4.0 0.5	4.0 4.0 000.8657013
3.5	0.5	4.0 0.5	4.0 3.5	1.5 4.0 0.5	6.0 000.7517248
3.5	0.5	4.0 0.5	4.0 3.5	1.5 5.0 0.5	3.0 1.0 -000.3825166
3.5	0.5	4.0 0.5	4.0 3.5	1.5 5.0 0.5	3.0 3.0 -000.5018663
3.5	0.5	4.0 0.5	4.0 3.5	1.5 5.0 0.5	3.0 5.0 -000.5356232
3.5	0.5	4.0 0.5	4.0 3.5	1.5 5.0 0.5	3.0 7.0 -000.4431041
3.5	0.5	4.0 0.5	4.0 4.5	0.5 4.0 0.5	2.0 -000.1935991
3.5	0.5	4.0 0.5	4.0 4.5	0.5 4.0 0.5	4.0 -000.2954750
3.5	0.5	4.0 0.5	4.0 4.5	0.5 4.0 0.5	6.0 -000.4447263

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	0.5	4.0	0.5	4.0	4.5	0.5	4.0	0.5	4.0	8.0	-000.9596323
3.5	0.5	4.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	1.0	000.7407402
3.5	0.5	4.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	3.0	000.1619767
3.5	0.5	4.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	5.0	000.0691479
3.5	0.5	4.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	7.0	000.0306441
3.5	0.5	4.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	1.0	000.4276667
3.5	0.5	4.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	3.0	000.5611033
3.5	0.5	4.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	5.0	000.5988446
3.5	0.5	4.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	7.0	000.4954063
3.5	0.5	4.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	2.0	-000.1751169
3.5	0.5	4.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	4.0	-000.0593926
3.5	0.5	4.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	6.0	000.4022693
3.5	0.5	4.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	8.0	002.3147207
3.5	0.5	4.0	0.5	4.0	4.5	1.5	5.0	0.5	5.0	1.0	002.4192473
3.5	0.5	4.0	0.5	4.0	4.5	1.5	5.0	0.5	5.0	3.0	001.1902803
3.5	0.5	4.0	0.5	4.0	4.5	1.5	5.0	0.5	5.0	5.0	001.0162727
3.5	0.5	4.0	0.5	4.0	4.5	1.5	5.0	0.5	5.0	7.0	000.7756754
3.5	0.5	4.0	0.5	4.0	4.5	1.5	6.0	0.5	4.0	2.0	-000.0290853
3.5	0.5	4.0	0.5	4.0	4.5	1.5	6.0	0.5	4.0	4.0	-000.0369921
3.5	0.5	4.0	0.5	4.0	4.5	1.5	6.0	0.5	4.0	6.0	-000.0381790
3.5	0.5	4.0	0.5	4.0	4.5	1.5	6.0	0.5	4.0	8.0	-000.0308935
3.5	0.5	4.0	1.5	2.0	0.5	0.5	0.0	1.5	2.0	4.0	000.3253000
3.5	0.5	4.0	1.5	2.0	0.5	0.5	1.0	1.5	1.0	3.0	000.2857143
3.5	0.5	4.0	1.5	2.0	0.5	1.5	1.0	1.5	1.0	3.0	000.4040611
3.5	0.5	4.0	1.5	2.0	0.5	1.5	2.0	1.5	2.0	4.0	000.4600437
3.5	0.5	4.0	1.5	2.0	1.5	0.5	1.0	1.5	1.0	3.0	-000.3614031
3.5	0.5	4.0	1.5	2.0	1.5	0.5	1.0	1.5	3.0	3.0	000.0803116
3.5	0.5	4.0	1.5	2.0	1.5	0.5	1.0	1.5	3.0	5.0	000.5064914

J_1 , S"	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
3.5	0.5	4.0 1.5	2.0 1.5	0.5 2.0	-000.4507489
3.5	0.5	4.0 1.5	2.0 1.5	0.5 2.0	000.1287853
3.5	0.5	4.0 1.5	2.0 1.5	0.5 2.0	000.1314411
3.5	0.5	4.0 1.5	2.0 1.5	1.5 0.0	-000.9200873
3.5	0.5	4.0 1.5	2.0 1.5	1.5 1.0	-000.8081221
3.5	0.5	4.0 1.5	2.0 1.5	1.5 2.0	000.1795825
3.5	0.5	4.0 1.5	2.0 1.5	1.5 3.0	-000.9060393
3.5	0.5	4.0 1.5	2.0 1.5	1.5 4.0	-000.9014978
3.5	0.5	4.0 1.5	2.0 1.5	1.5 2.0	000.2575707
3.5	0.5	4.0 1.5	2.0 1.5	1.5 2.0	-000.6572050
3.5	0.5	4.0 1.5	2.0 1.5	1.5 3.0	-000.8081219
3.5	0.5	4.0 1.5	2.0 1.5	1.5 3.0	000.1795824
3.5	0.5	4.0 1.5	2.0 1.5	1.5 3.0	000.4530196
3.5	0.5	4.0 1.5	2.0 2.5	0.5 2.0	-000.3614029
3.5	0.5	4.0 1.5	2.0 2.5	0.5 2.0	-000.3688555
3.5	0.5	4.0 1.5	2.0 2.5	0.5 2.0	000.0245903
3.5	0.5	4.0 1.5	2.0 2.5	0.5 2.0	000.1368948
3.5	0.5	4.0 1.5	2.0 2.5	0.5 2.0	000.6419075
3.5	0.5	4.0 1.5	2.0 2.5	0.5 3.0	-000.5520525
3.5	0.5	4.0 1.5	2.0 2.5	0.5 3.0	-000.0737710
3.5	0.5	4.0 1.5	2.0 2.5	0.5 3.0	000.0482942
3.5	0.5	4.0 1.5	2.0 2.5	0.5 3.0	000.0602338
3.5	0.5	4.0 1.5	2.0 2.5	0.5 3.0	000.0542667
3.5	0.5	4.0 1.5	2.0 2.5	1.5 1.0	000.4040611
3.5	0.5	4.0 1.5	2.0 2.5	1.5 3.0	-000.3299144
3.5	0.5	4.0 1.5	2.0 2.5	1.5 3.0	-000.8322502
3.5	0.5	4.0 1.5	2.0 2.5	1.5 2.0	-000.7175183
3.5	0.5	4.0 1.5	2.0 2.5	1.5 2.0	-000.1408299

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	0.5	4.0	1.5	2.0	2.5	1.5	2.0	1.5	4.0	2.0	000.0488209
3.5	0.5	4.0	1.5	2.0	2.5	1.5	2.0	1.5	4.0	4.0	000.0522666
3.5	0.5	4.0	1.5	2.0	2.5	1.5	2.0	1.5	4.0	6.0	-001.3724566
3.5	0.5	4.0	1.5	2.0	2.5	1.5	3.0	1.5	1.0	1.0	-001.2344269
3.5	0.5	4.0	1.5	2.0	2.5	1.5	3.0	1.5	1.0	3.0	000.3299144
3.5	0.5	4.0	1.5	2.0	2.5	1.5	3.0	1.5	3.0	1.0	000.1079900
3.5	0.5	4.0	1.5	2.0	2.5	1.5	3.0	1.5	3.0	3.0	-000.2693738
3.5	0.5	4.0	1.5	2.0	2.5	1.5	3.0	1.5	3.0	5.0	-000.8979497
3.5	0.5	4.0	1.5	2.0	2.5	1.5	4.0	1.5	2.0	2.0	-000.8449780
3.5	0.5	4.0	1.5	2.0	2.5	1.5	4.0	1.5	2.0	4.0	-000.6209298
3.5	0.5	4.0	1.5	2.0	2.5	1.5	4.0	1.5	4.0	2.0	000.0574935
3.5	0.5	4.0	1.5	2.0	2.5	1.5	4.0	1.5	4.0	4.0	000.2304481
3.5	0.5	4.0	1.5	2.0	2.5	1.5	4.0	1.5	4.0	6.0	000.4202269
3.5	0.5	4.0	1.5	2.0	3.5	0.5	3.0	1.5	3.0	1.0	-000.3325223
3.5	0.5	4.0	1.5	2.0	3.5	0.5	3.0	1.5	3.0	3.0	-000.4147286
3.5	0.5	4.0	1.5	2.0	3.5	0.5	3.0	1.5	3.0	5.0	-000.3736441
3.5	0.5	4.0	1.5	2.0	3.5	0.5	3.0	1.5	5.0	3.0	000.0421525
3.5	0.5	4.0	1.5	2.0	3.5	0.5	3.0	1.5	5.0	5.0	000.1799525
3.5	0.5	4.0	1.5	2.0	3.5	0.5	3.0	1.5	5.0	7.0	000.7536508
3.5	0.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	2.0	2.0	-000.0000000
3.5	0.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	2.0	4.0	000.0000000
3.5	0.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	2.0	-000.0000000
3.5	0.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	4.0	000.0000000
3.5	0.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	6.0	-000.0000000
3.5	0.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	2.0	2.0	000.4599478
3.5	0.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	2.0	4.0	000.3379911
3.5	0.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	2.0	-000.1028473
3.5	0.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	4.0	-000.4122388

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	0.5	4.0 1.5 2.0	3.5 1.5 2.0	1.5 4.0 6.0	-000.7517253
3.5	0.5	4.0 1.5 2.0	3.5 1.5 3.0	1.5 3.0 1.0	-000.5279501
3.5	0.5	4.0 1.5 2.0	3.5 1.5 3.0	1.5 3.0 3.0	-000.3591650
3.5	0.5	4.0 1.5 2.0	3.5 1.5 3.0	1.5 3.0 5.0	000.1617921
3.5	0.5	4.0 1.5 2.0	3.5 1.5 3.0	1.5 5.0 3.0	000.0365050
3.5	0.5	4.0 1.5 2.0	3.5 1.5 3.0	1.5 5.0 5.0	-000.0779210
3.5	0.5	4.0 1.5 2.0	3.5 1.5 3.0	1.5 5.0 7.0	-001.7404814
3.5	0.5	4.0 1.5 2.0	3.5 1.5 4.0	1.5 2.0 2.0	000.6170847
3.5	0.5	4.0 1.5 2.0	3.5 1.5 4.0	1.5 2.0 4.0	000.4534626
3.5	0.5	4.0 1.5 2.0	3.5 1.5 4.0	1.5 4.0 2.0	-000.1379842
3.5	0.5	4.0 1.5 2.0	3.5 1.5 4.0	1.5 4.0 4.0	-000.5530764
3.5	0.5	4.0 1.5 2.0	3.5 1.5 4.0	1.5 4.0 6.0	-001.0085454
3.5	0.5	4.0 1.5 2.0	3.5 1.5 5.0	1.5 3.0 1.0	-000.7512473
3.5	0.5	4.0 1.5 2.0	3.5 1.5 5.0	1.5 3.0 3.0	-000.8031176
3.5	0.5	4.0 1.5 2.0	3.5 1.5 5.0	1.5 3.0 5.0	-000.5064911
3.5	0.5	4.0 1.5 2.0	3.5 1.5 5.0	1.5 5.0 3.0	000.0816287
3.5	0.5	4.0 1.5 2.0	3.5 1.5 5.0	1.5 5.0 5.0	000.2439327
3.5	0.5	4.0 1.5 2.0	3.5 1.5 5.0	1.5 5.0 7.0	000.3891830
3.5	0.5	4.0 1.5 2.0	4.5 0.5 4.0	1.5 4.0 2.0	-000.3640339
3.5	0.5	4.0 1.5 2.0	4.5 0.5 4.0	1.5 4.0 4.0	-000.4377422
3.5	0.5	4.0 1.5 2.0	4.5 0.5 4.0	1.5 4.0 6.0	-000.3801098
3.5	0.5	4.0 1.5 2.0	4.5 0.5 4.0	1.5 6.0 4.0	000.0555568
3.5	0.5	4.0 1.5 2.0	4.5 0.5 4.0	1.5 6.0 6.0	000.2150224
3.5	0.5	4.0 1.5 2.0	4.5 0.5 4.0	1.5 6.0 8.0	000.8506229
3.5	0.5	4.0 1.5 2.0	4.5 0.5 5.0	1.5 3.0 1.0	000.7273926
3.5	0.5	4.0 1.5 2.0	4.5 0.5 5.0	1.5 3.0 3.0	000.1296021
3.5	0.5	4.0 1.5 2.0	4.5 0.5 5.0	1.5 3.0 5.0	000.0326937
3.5	0.5	4.0 1.5 2.0	4.5 0.5 5.0	1.5 5.0 3.0	-000.0416555

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	0.5	4.0	1.5	2.0	4.5	0.5	5.0	1.5	5.0	5.0	-000.0497925
3.5	0.5	4.0	1.5	2.0	4.5	0.5	5.0	1.5	5.0	7.0	-000.0425575
3.5	0.5	4.0	1.5	2.0	4.5	1.5	3.0	1.5	3.0	1.0	000.4199599
3.5	0.5	4.0	1.5	2.0	4.5	1.5	3.0	1.5	3.0	3.0	000.4489563
3.5	0.5	4.0	1.5	2.0	4.5	1.5	3.0	1.5	3.0	5.0	000.2831375
3.5	0.5	4.0	1.5	2.0	4.5	1.5	3.0	1.5	5.0	3.0	-000.1443004
3.5	0.5	4.0	1.5	2.0	4.5	1.5	3.0	1.5	5.0	5.0	-000.4312175
3.5	0.5	4.0	1.5	2.0	4.5	1.5	3.0	1.5	5.0	7.0	-000.6879847
3.5	0.5	4.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	2.0	-000.3292802
3.5	0.5	4.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	4.0	-000.0879894
3.5	0.5	4.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	6.0	000.3438224
3.5	0.5	4.0	1.5	2.0	4.5	1.5	4.0	1.5	6.0	4.0	000.0111679
3.5	0.5	4.0	1.5	2.0	4.5	1.5	4.0	1.5	6.0	6.0	-000.1944955
3.5	0.5	4.0	1.5	2.0	4.5	1.5	4.0	1.5	6.0	8.0	-002.0517805
3.5	0.5	4.0	1.5	2.0	4.5	1.5	5.0	1.5	3.0	1.0	002.3756548
3.5	0.5	4.0	1.5	2.0	4.5	1.5	5.0	1.5	3.0	3.0	000.9523813
3.5	0.5	4.0	1.5	2.0	4.5	1.5	5.0	1.5	3.0	5.0	000.4804995
3.5	0.5	4.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	3.0	-000.3061063
3.5	0.5	4.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	5.0	-000.7318002
3.5	0.5	4.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	7.0	-001.0772041
3.5	0.5	4.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	2.0	-000.0546905
3.5	0.5	4.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	4.0	-000.0548034
3.5	0.5	4.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	6.0	-000.0326318
3.5	0.5	4.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	4.0	000.0069555
3.5	0.5	4.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	6.0	000.0184593
3.5	0.5	4.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	8.0	000.0273843
3.5	0.5	4.0	1.5	4.0	0.5	0.5	0.0	1.5	2.0	4.0	-000.2424643
3.5	0.5	4.0	1.5	4.0	0.5	0.5	1.0	1.5	1.0	3.0	-000.2129588

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	0.5	4.0 1.5	4.0 0.5	1.5 1.0 3.0	-000.3011693
3.5	0.5	4.0 1.5	4.0 0.5	1.5 2.0 4.0	-000.3428963
3.5	0.5	4.0 1.5	4.0 1.5	0.5 1.0 3.0	-000.3591653
3.5	0.5	4.0 1.5	4.0 1.5	0.5 1.0 5.0	000.3171138
3.5	0.5	4.0 1.5	4.0 1.5	0.5 3.0 3.0	-000.2693741
3.5	0.5	4.0 1.5	4.0 1.5	0.5 3.0 5.0	-000.2718117
3.5	0.5	4.0 1.5	4.0 1.5	0.5 2.0 4.0	000.1371585
3.5	0.5	4.0 1.5	4.0 1.5	0.5 2.0 2.0	-000.4319594
3.5	0.5	4.0 1.5	4.0 1.5	0.5 2.0 4.0	000.0391882
3.5	0.5	4.0 1.5	4.0 1.5	1.5 0.0 4.0	-000.9601097
3.5	0.5	4.0 1.5	4.0 1.5	1.5 0.0 4.0	-000.2743170
3.5	0.5	4.0 1.5	4.0 1.5	1.5 1.0 3.0	-000.8031179
3.5	0.5	4.0 1.5	4.0 1.5	1.5 1.0 5.0	-000.5672703
3.5	0.5	4.0 1.5	4.0 1.5	1.5 3.0 3.0	-000.6023384
3.5	0.5	4.0 1.5	4.0 1.5	1.5 3.0 5.0	000.4862316
3.5	0.5	4.0 1.5	4.0 1.5	1.5 2.0 4.0	-000.6857926
3.5	0.5	4.0 1.5	4.0 1.5	1.5 2.0 2.0	-000.8639184
3.5	0.5	4.0 1.5	4.0 1.5	1.5 2.0 4.0	-000.1959404
3.5	0.5	4.0 1.5	4.0 1.5	1.5 3.0 3.0	-000.8031181
3.5	0.5	4.0 1.5	4.0 1.5	1.5 3.0 5.0	000.2836352
3.5	0.5	4.0 1.5	4.0 1.5	1.5 3.0 3.0	-000.6023384
3.5	0.5	4.0 1.5	4.0 1.5	1.5 3.0 5.0	-000.2431157
3.5	0.5	4.0 1.5	4.0 2.5	0.5 2.0 2.0	-000.3591653
3.5	0.5	4.0 1.5	4.0 2.5	0.5 2.0 4.0	-000.2849261
3.5	0.5	4.0 1.5	4.0 2.5	0.5 2.0 5.0	000.4687831
3.5	0.5	4.0 1.5	4.0 2.5	0.5 4.0 2.0	-000.2749286
3.5	0.5	4.0 1.5	4.0 2.5	0.5 4.0 4.0	-000.3305952
3.5	0.5	4.0 1.5	4.0 2.5	0.5 4.0 6.0	-000.2870697

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	0.5	4.0	1.5	4.0	2.5	0.5	3.0	1.5	1.0	3.0	000.0549858
3.5	0.5	4.0	1.5	4.0	2.5	0.5	3.0	1.5	1.0	5.0	000.0554835
3.5	0.5	4.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	1.0	-000.5399491
3.5	0.5	4.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	3.0	-000.0448956
3.5	0.5	4.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	5.0	000.0275045
3.5	0.5	4.0	1.5	4.0	2.5	1.5	1.0	1.5	1.0	3.0	-000.3011691
3.5	0.5	4.0	1.5	4.0	2.5	1.5	1.0	1.5	1.0	5.0	-000.8509054
3.5	0.5	4.0	1.5	4.0	2.5	1.5	1.0	1.5	3.0	3.0	000.2459031
3.5	0.5	4.0	1.5	4.0	2.5	1.5	1.0	1.5	3.0	5.0	-000.4218194
3.5	0.5	4.0	1.5	4.0	2.5	1.5	2.0	1.5	2.0	2.0	-000.7130755
3.5	0.5	4.0	1.5	4.0	2.5	1.5	2.0	1.5	2.0	4.0	-000.1087853
3.5	0.5	4.0	1.5	4.0	2.5	1.5	2.0	1.5	2.0	6.0	-001.0023007
3.5	0.5	4.0	1.5	4.0	2.5	1.5	2.0	1.5	4.0	2.0	-000.5458345
3.5	0.5	4.0	1.5	4.0	2.5	1.5	2.0	1.5	4.0	4.0	-000.1262215
3.5	0.5	4.0	1.5	4.0	2.5	1.5	2.0	1.5	4.0	6.0	000.6137813
3.5	0.5	4.0	1.5	4.0	2.5	1.5	3.0	1.5	1.0	3.0	-000.2459037
3.5	0.5	4.0	1.5	4.0	2.5	1.5	3.0	1.5	1.0	5.0	-000.9180778
3.5	0.5	4.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	1.0	-001.2073628
3.5	0.5	4.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	3.0	000.2007795
3.5	0.5	4.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	5.0	-000.4551190
3.5	0.5	4.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	2.0	-000.8397458
3.5	0.5	4.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	4.0	-000.4796427
3.5	0.5	4.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	6.0	000.3068906
3.5	0.5	4.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	2.0	-000.6427966
3.5	0.5	4.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	4.0	-000.5565225
3.5	0.5	4.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	6.0	-000.1879308
3.5	0.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	1.0	-000.3304635
3.5	0.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	3.0	-000.3793749

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	0.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	5.0	-000.2313675
3.5	0.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	7.0	000.5861729
3.5	0.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	1.0	-000.2586285
3.5	0.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	3.0	-000.3393228
3.5	0.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	5.0	-000.3621472
3.5	0.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	7.0	-000.2995933
3.5	0.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	2.0	-000.0000000
3.5	0.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	4.0	000.0000000
3.5	0.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	6.0	-000.0000000
3.5	0.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	2.0	-000.0000000
3.5	0.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	4.0	000.0000000
3.5	0.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	6.0	-000.0000000
3.5	0.5	4.0	1.5	4.0	3.5	1.5	2.0	1.5	2.0	2.0	-000.1028473
3.5	0.5	4.0	1.5	4.0	3.5	1.5	2.0	1.5	2.0	4.0	-000.4122388
3.5	0.5	4.0	1.5	4.0	3.5	1.5	2.0	1.5	2.0	6.0	-000.7517253
3.5	0.5	4.0	1.5	4.0	3.5	1.5	2.0	1.5	4.0	2.0	000.3986215
3.5	0.5	4.0	1.5	4.0	3.5	1.5	2.0	1.5	4.0	4.0	000.0921792
3.5	0.5	4.0	1.5	4.0	3.5	1.5	2.0	1.5	4.0	6.0	-000.4482416
3.5	0.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	1.0	-000.5246806
3.5	0.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	3.0	-000.3285475
3.5	0.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	5.0	000.1001850
3.5	0.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	7.0	-001.3537069
3.5	0.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	1.0	-000.4106282
3.5	0.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	3.0	-000.2938616
3.5	0.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	5.0	000.1568151
3.5	0.5	4.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	7.0	000.6918808
3.5	0.5	4.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	2.0	-000.1379842
3.5	0.5	4.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	4.0	-000.5530764

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	0.5	4.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	6.0	-001.0085454
3.5	0.5	4.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	2.0	000.5348068
3.5	0.5	4.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	4.0	000.1236714
3.5	0.5	4.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	6.0	-000.6013808
3.5	0.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	1.0	-000.7465956
3.5	0.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	3.0	-000.7346556
3.5	0.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	5.0	-000.3136287
3.5	0.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	7.0	000.3026981
3.5	0.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	1.0	-000.5843041
3.5	0.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	3.0	-000.6570972
3.5	0.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	5.0	-000.4909076
3.5	0.5	4.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	7.0	-000.1547096
3.5	0.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	2.0	-000.3502686
3.5	0.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	4.0	-000.3764699
3.5	0.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	6.0	-000.1926556
3.5	0.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	8.0	000.6847027
3.5	0.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	2.0	-000.0221234
3.5	0.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	4.0	-000.0281376
3.5	0.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	6.0	-000.0290405
3.5	0.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	8.0	-000.0234988
3.5	0.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	1.0	-000.0361439
3.5	0.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	3.0	-000.0474215
3.5	0.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	5.0	-000.0506120
3.5	0.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	7.0	-000.0418692
3.5	0.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	1.0	000.7156227
3.5	0.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	3.0	000.1005967
3.5	0.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	5.0	000.0000000
3.5	0.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	7.0	-000.0274919

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	0.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	1.0	-000.0208669
3.5	0.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	3.0	-000.1642735
3.5	0.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	5.0	-000.4383097
3.5	0.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	7.0	-000.6768532
3.5	0.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	1.0	000.4131653
3.5	0.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	3.0	000.3484779
3.5	0.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	5.0	-000.0000000
3.5	0.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	7.0	-000.4444216
3.5	0.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	2.0	-000.3168306
3.5	0.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	4.0	-000.0756735
3.5	0.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	6.0	000.1742628
3.5	0.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	8.0	-001.6515676
3.5	0.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	2.0	-000.0200113
3.5	0.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	4.0	-000.0056558
3.5	0.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	6.0	000.0262680
3.5	0.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	8.0	000.0566814
3.5	0.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	1.0	-000.1180470
3.5	0.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	3.0	-000.3484779
3.5	0.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	5.0	-000.7438358
3.5	0.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	7.0	-001.0597744
3.5	0.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	1.0	002.3372165
3.5	0.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	3.0	000.7392332
3.5	0.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	5.0	000.0000000
3.5	0.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	7.0	-000.6958467
3.5	0.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	2.0	-000.0526225
3.5	0.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	4.0	-000.0471323
3.5	0.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	6.0	-000.0165391
3.5	0.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	8.0	000.0220427

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	0.5	4.0 1.5	4.0 4.5	1.5 6.0	1.5 6.0 2.0 -000.0033237
3.5	0.5	4.0 1.5	4.0 4.5	1.5 6.0	1.5 6.0 4.0 -000.0035227
3.5	0.5	4.0 1.5	4.0 4.5	1.5 6.0	1.5 6.0 6.0 -000.0024931
3.5	0.5	4.0 1.5	4.0 4.5	1.5 6.0	1.5 6.0 8.0 -000.0007565
3.5	1.5	2.0 0.5	4.0 0.5	0.5 1.0	0.5 1.0 3.0 -000.2693740
3.5	1.5	2.0 0.5	4.0 0.5	1.5 1.0	0.5 1.0 3.0 001.0476189
3.5	1.5	2.0 0.5	4.0 0.5	1.5 2.0	0.5 0.0 4.0 000.9759000
3.5	1.5	2.0 0.5	4.0 1.5	0.5 1.0	0.5 1.0 3.0 000.2693740
3.5	1.5	2.0 0.5	4.0 1.5	0.5 2.0	0.5 2.0 2.0 -000.3863560
3.5	1.5	2.0 0.5	4.0 1.5	0.5 2.0	0.5 2.0 4.0 -000.3943229
3.5	1.5	2.0 0.5	4.0 1.5	1.5 0.0	0.5 2.0 2.0 -001.3522466
3.5	1.5	2.0 0.5	4.0 1.5	1.5 1.0	0.5 1.0 3.0 -000.4818710
3.5	1.5	2.0 0.5	4.0 1.5	1.5 2.0	0.5 2.0 2.0 000.7727125
3.5	1.5	2.0 0.5	4.0 1.5	1.5 2.0	0.5 2.0 4.0 000.7886461
3.5	1.5	2.0 0.5	4.0 1.5	1.5 3.0	0.5 1.0 3.0 000.2409355
3.5	1.5	2.0 0.5	4.0 1.5	1.5 3.0	0.5 1.0 5.0 001.5194740
3.5	1.5	2.0 0.5	4.0 2.5	0.5 2.0	0.5 2.0 2.0 000.3863560
3.5	1.5	2.0 0.5	4.0 2.5	0.5 2.0	0.5 2.0 4.0 000.3943232
3.5	1.5	2.0 0.5	4.0 2.5	0.5 3.0	0.5 3.0 1.0 -000.4319593
3.5	1.5	2.0 0.5	4.0 2.5	0.5 3.0	0.5 3.0 3.0 -000.5387481
3.5	1.5	2.0 0.5	4.0 2.5	0.5 3.0	0.5 3.0 5.0 -000.4853779
3.5	1.5	2.0 0.5	4.0 2.5	1.5 1.0	0.5 3.0 1.0 -001.6561572
3.5	1.5	2.0 0.5	4.0 2.5	1.5 1.0	0.5 3.0 3.0 -000.2213129
3.5	1.5	2.0 0.5	4.0 2.5	1.5 2.0	0.5 2.0 2.0 -000.3614033
3.5	1.5	2.0 0.5	4.0 2.5	1.5 2.0	0.5 2.0 4.0 -000.3688554
3.5	1.5	2.0 0.5	4.0 2.5	1.5 3.0	0.5 3.0 1.0 000.6278287
3.5	1.5	2.0 0.5	4.0 2.5	1.5 3.0	0.5 3.0 3.0 000.7830399
3.5	1.5	2.0 0.5	4.0 2.5	1.5 3.0	0.5 3.0 5.0 000.7054694

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
3.5	1.5	2.0	0.5	4.0	2.5	1.5	000.0737708
3.5	1.5	2.0	0.5	4.0	2.5	1.5	000.4106851
3.5	1.5	2.0	0.5	4.0	2.5	1.5	001.9257239
3.5	1.5	2.0	0.5	4.0	3.5	0.5	000.4319590
3.5	1.5	2.0	0.5	4.0	3.5	0.5	000.5387479
3.5	1.5	2.0	0.5	4.0	3.5	0.5	000.4853786
3.5	1.5	2.0	0.5	4.0	3.5	0.5	-000.5366056
3.5	1.5	2.0	0.5	4.0	3.5	0.5	-000.6452556
3.5	1.5	2.0	0.5	4.0	3.5	0.5	-000.5603026
3.5	1.5	2.0	0.5	4.0	3.5	1.5	-000.0000000
3.5	1.5	2.0	0.5	4.0	3.5	1.5	000.0000000
3.5	1.5	2.0	0.5	4.0	3.5	1.5	-000.2493909
3.5	1.5	2.0	0.5	4.0	3.5	1.5	-000.3110460
3.5	1.5	2.0	0.5	4.0	3.5	1.5	-000.2802324
3.5	1.5	2.0	0.5	4.0	3.5	1.5	000.6349202
3.5	1.5	2.0	0.5	4.0	3.5	1.5	000.7634776
3.5	1.5	2.0	0.5	4.0	3.5	1.5	000.6629583
3.5	1.5	2.0	0.5	4.0	3.5	1.5	000.1264581
3.5	1.5	2.0	0.5	4.0	3.5	1.5	000.5398572
3.5	1.5	2.0	0.5	4.0	3.5	1.5	002.2609509
3.5	1.5	2.0	0.5	4.0	4.5	0.5	000.5366056
3.5	1.5	2.0	0.5	4.0	4.5	0.5	000.6452560
3.5	1.5	2.0	0.5	4.0	4.5	0.5	000.5603021
3.5	1.5	2.0	0.5	4.0	4.5	0.5	-000.6122125
3.5	1.5	2.0	0.5	4.0	4.5	0.5	-000.7318002
3.5	1.5	2.0	0.5	4.0	4.5	0.5	-000.6254731
3.5	1.5	2.0	0.5	4.0	4.5	1.5	002.1821778
3.5	1.5	2.0	0.5	4.0	4.5	1.5	000.3888073

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	2.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	5.0	000.0980820
3.5	1.5	2.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	2.0	-000.2022398
3.5	1.5	2.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	4.0	-000.2431897
3.5	1.5	2.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	6.0	-000.2111713
3.5	1.5	2.0	0.5	4.0	4.5	1.5	5.0	0.5	5.0	3.0	000.6248369
3.5	1.5	2.0	0.5	4.0	4.5	1.5	5.0	0.5	5.0	5.0	000.7468895
3.5	1.5	2.0	0.5	4.0	4.5	1.5	5.0	0.5	5.0	7.0	000.6383718
3.5	1.5	2.0	0.5	4.0	4.5	1.5	6.0	0.5	4.0	4.0	000.1666682
3.5	1.5	2.0	0.5	4.0	4.5	1.5	6.0	0.5	4.0	6.0	000.6450671
3.5	1.5	2.0	0.5	4.0	4.5	1.5	6.0	0.5	4.0	8.0	002.5518687
3.5	1.5	2.0	1.5	2.0	0.5	0.5	1.0	1.5	1.0	3.0	000.2159797
3.5	1.5	2.0	1.5	2.0	0.5	1.5	1.0	1.5	1.0	3.0	-000.8399638
3.5	1.5	2.0	1.5	2.0	0.5	1.5	2.0	1.5	2.0	4.0	-000.7824606
3.5	1.5	2.0	1.5	2.0	1.5	0.5	1.0	1.5	1.0	3.0	000.4097925
3.5	1.5	2.0	1.5	2.0	1.5	0.5	1.0	1.5	3.0	3.0	-000.0910649
3.5	1.5	2.0	1.5	2.0	1.5	0.5	2.0	1.5	0.0	2.0	-000.3407342
3.5	1.5	2.0	1.5	2.0	1.5	0.5	2.0	1.5	2.0	2.0	000.0973524
3.5	1.5	2.0	1.5	2.0	1.5	0.5	2.0	1.5	2.0	4.0	000.4471202
3.5	1.5	2.0	1.5	2.0	1.5	1.5	0.0	1.5	0.0	2.0	-001.1925696
3.5	1.5	2.0	1.5	2.0	1.5	1.5	0.0	1.5	2.0	2.0	000.3407341
3.5	1.5	2.0	1.5	2.0	1.5	1.5	1.0	1.5	1.0	3.0	-000.7330593
3.5	1.5	2.0	1.5	2.0	1.5	1.5	1.0	1.5	3.0	3.0	000.1629019
3.5	1.5	2.0	1.5	2.0	1.5	1.5	2.0	1.5	0.0	2.0	000.6814684
3.5	1.5	2.0	1.5	2.0	1.5	1.5	2.0	1.5	2.0	2.0	-000.1947050
3.5	1.5	2.0	1.5	2.0	1.5	1.5	2.0	1.5	2.0	4.0	-000.8942406
3.5	1.5	2.0	1.5	2.0	1.5	1.5	3.0	1.5	1.0	3.0	000.3665295
3.5	1.5	2.0	1.5	2.0	1.5	1.5	3.0	1.5	3.0	3.0	-000.0814509
3.5	1.5	2.0	1.5	2.0	1.5	1.5	3.0	1.5	3.0	5.0	-001.2841902

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	2.0	1.5	2.0	2.5	0.5	2.0	1.5	2.0	2.0	000.7025015
3.5	1.5	2.0	1.5	2.0	2.5	0.5	2.0	1.5	2.0	4.0	000.4381592
3.5	1.5	2.0	1.5	2.0	2.5	0.5	2.0	1.5	4.0	2.0	-000.0477990
3.5	1.5	2.0	1.5	2.0	2.5	0.5	2.0	1.5	4.0	4.0	-000.1626160
3.5	1.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	1.0	1.0	-000.4173122
3.5	1.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	1.0	3.0	-000.3345941
3.5	1.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	3.0	1.0	000.0365073
3.5	1.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	3.0	3.0	000.2731952
3.5	1.5	2.0	1.5	2.0	2.5	0.5	3.0	1.5	3.0	5.0	000.6153293
3.5	1.5	2.0	1.5	2.0	2.5	1.5	1.0	1.5	1.0	1.0	-001.5999999
3.5	1.5	2.0	1.5	2.0	2.5	1.5	1.0	1.5	1.0	3.0	-000.1374483
3.5	1.5	2.0	1.5	2.0	2.5	1.5	1.0	1.5	3.0	1.0	000.1399707
3.5	1.5	2.0	1.5	2.0	2.5	1.5	1.0	1.5	3.0	3.0	000.1122264
3.5	1.5	2.0	1.5	2.0	2.5	1.5	2.0	1.5	2.0	2.0	-000.6571301
3.5	1.5	2.0	1.5	2.0	2.5	1.5	2.0	1.5	2.0	4.0	-000.4098600
3.5	1.5	2.0	1.5	2.0	2.5	1.5	2.0	1.5	4.0	2.0	000.0447121
3.5	1.5	2.0	1.5	2.0	2.5	1.5	2.0	1.5	4.0	4.0	000.1521131
3.5	1.5	2.0	1.5	2.0	2.5	1.5	3.0	1.5	1.0	1.0	000.6065400
3.5	1.5	2.0	1.5	2.0	2.5	1.5	3.0	1.5	1.0	3.0	000.4863141
3.5	1.5	2.0	1.5	2.0	2.5	1.5	3.0	1.5	3.0	1.0	-000.0530611
3.5	1.5	2.0	1.5	2.0	2.5	1.5	3.0	1.5	3.0	3.0	-000.3970740
3.5	1.5	2.0	1.5	2.0	2.5	1.5	3.0	1.5	3.0	5.0	-000.8943466
3.5	1.5	2.0	1.5	2.0	2.5	1.5	4.0	1.5	2.0	2.0	000.1341362
3.5	1.5	2.0	1.5	2.0	2.5	1.5	4.0	1.5	2.0	4.0	000.4563406
3.5	1.5	2.0	1.5	2.0	2.5	1.5	4.0	1.5	4.0	2.0	-000.0091264
3.5	1.5	2.0	1.5	2.0	2.5	1.5	4.0	1.5	4.0	4.0	-000.1693638
3.5	1.5	2.0	1.5	2.0	2.5	1.5	4.0	1.5	4.0	6.0	-001.6677256
3.5	1.5	2.0	1.5	2.0	3.5	0.5	3.0	1.5	3.0	1.0	000.8483509

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	2.0	1.5	2.0	3.5	0.5	3.0	1.5	3.0	3.0	000.8621393
3.5	1.5	2.0	1.5	2.0	3.5	0.5	3.0	1.5	3.0	5.0	000.4589786
3.5	1.5	2.0	1.5	2.0	3.5	0.5	3.0	1.5	5.0	3.0	-000.0876269
3.5	1.5	2.0	1.5	2.0	3.5	0.5	3.0	1.5	5.0	5.0	-000.2210510
3.5	1.5	2.0	1.5	2.0	3.5	0.5	4.0	1.5	2.0	2.0	-000.4599478
3.5	1.5	2.0	1.5	2.0	3.5	0.5	4.0	1.5	2.0	4.0	-000.3379911
3.5	1.5	2.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	2.0	000.1028473
3.5	1.5	2.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	4.0	000.4122388
3.5	1.5	2.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	6.0	000.7517253
3.5	1.5	2.0	1.5	2.0	3.5	1.5	2.0	1.5	2.0	2.0	000.0000000
3.5	1.5	2.0	1.5	2.0	3.5	1.5	2.0	1.5	2.0	4.0	000.0000000
3.5	1.5	2.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	2.0	000.0000000
3.5	1.5	2.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	4.0	000.0000000
3.5	1.5	2.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	1.0	-000.4897957
3.5	1.5	2.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	3.0	-000.4977557
3.5	1.5	2.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	5.0	-000.2649912
3.5	1.5	2.0	1.5	2.0	3.5	1.5	3.0	1.5	5.0	3.0	000.0505910
3.5	1.5	2.0	1.5	2.0	3.5	1.5	3.0	1.5	5.0	5.0	000.1276241
3.5	1.5	2.0	1.5	2.0	3.5	1.5	4.0	1.5	2.0	2.0	000.5442175
3.5	1.5	2.0	1.5	2.0	3.5	1.5	4.0	1.5	2.0	4.0	000.3999163
3.5	1.5	2.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	2.0	-000.1216904
3.5	1.5	2.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	4.0	-000.4877672
3.5	1.5	2.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	6.0	-000.8894534
3.5	1.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	3.0	000.2023672
3.5	1.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	5.0	000.5104946
3.5	1.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	3.0	-000.0205680
3.5	1.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	5.0	-000.2458621
3.5	1.5	2.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	7.0	-001.9858164

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	2.0	001.0090065
3.5	1.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	4.0	000.9559393
3.5	1.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	6.0	000.4788937
3.5	1.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	6.0	4.0	-000.1213240
3.5	1.5	2.0	1.5	2.0	4.5	0.5	4.0	1.5	6.0	6.0	-000.2709023
3.5	1.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	3.0	3.0	-000.4898515
3.5	1.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	3.0	5.0	-000.3459996
3.5	1.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	5.0	3.0	000.1574439
3.5	1.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	5.0	5.0	000.5269570
3.5	1.5	2.0	1.5	2.0	4.5	0.5	5.0	1.5	5.0	7.0	000.8686130
3.5	1.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	3.0	1.0	002.1428568
3.5	1.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	3.0	3.0	000.3110979
3.5	1.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	3.0	5.0	000.0463736
3.5	1.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	5.0	3.0	-000.0999897
3.5	1.5	2.0	1.5	2.0	4.5	1.5	3.0	1.5	5.0	5.0	-000.0706265
3.5	1.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	2.0	-000.3802838
3.5	1.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	4.0	-000.3602837
3.5	1.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	4.0	6.0	-000.1804896
3.5	1.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	6.0	4.0	000.0457259
3.5	1.5	2.0	1.5	2.0	4.5	1.5	4.0	1.5	6.0	6.0	000.1021006
3.5	1.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	3.0	3.0	000.4999525
3.5	1.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	3.0	5.0	000.3531341
3.5	1.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	3.0	-000.1606898
3.5	1.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	5.0	-000.5378226
3.5	1.5	2.0	1.5	2.0	4.5	1.5	5.0	1.5	5.0	7.0	-000.8865243
3.5	1.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	4.0	000.2469191
3.5	1.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	6.0	000.5513413
3.5	1.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	4.0	-000.0313373

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	6.0	-000.3118856
3.5	1.5	2.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	8.0	-002.2619896
3.5	1.5	2.0	1.5	4.0	0.5	0.5	1.0	1.5	1.0	3.0	-000.1609817
3.5	1.5	2.0	1.5	4.0	0.5	1.5	1.0	1.5	1.0	3.0	000.6260721
3.5	1.5	2.0	1.5	4.0	0.5	1.5	2.0	1.5	2.0	4.0	000.5832117
3.5	1.5	2.0	1.5	4.0	1.5	0.5	1.0	1.5	1.0	3.0	000.4072553
3.5	1.5	2.0	1.5	4.0	1.5	0.5	1.0	1.5	3.0	3.0	000.3054413
3.5	1.5	2.0	1.5	4.0	1.5	0.5	2.0	1.5	0.0	4.0	000.4665695
3.5	1.5	2.0	1.5	4.0	1.5	0.5	2.0	1.5	2.0	2.0	-000.3265304
3.5	1.5	2.0	1.5	4.0	1.5	0.5	2.0	1.5	2.0	4.0	000.1333054
3.5	1.5	2.0	1.5	4.0	1.5	1.5	0.0	1.5	2.0	2.0	-001.1428570
3.5	1.5	2.0	1.5	4.0	1.5	1.5	1.0	1.5	1.0	3.0	-000.7285202
3.5	1.5	2.0	1.5	4.0	1.5	1.5	1.0	1.5	3.0	3.0	-000.5463900
3.5	1.5	2.0	1.5	4.0	1.5	1.5	2.0	1.5	0.0	4.0	-000.9331388
3.5	1.5	2.0	1.5	4.0	1.5	1.5	2.0	1.5	2.0	2.0	000.6530610
3.5	1.5	2.0	1.5	4.0	1.5	1.5	2.0	1.5	2.0	4.0	-000.2666109
3.5	1.5	2.0	1.5	4.0	1.5	1.5	3.0	1.5	1.0	3.0	000.3642602
3.5	1.5	2.0	1.5	4.0	1.5	1.5	3.0	1.5	1.0	5.0	-000.8040304
3.5	1.5	2.0	1.5	4.0	1.5	1.5	3.0	1.5	3.0	3.0	000.2731951
3.5	1.5	2.0	1.5	4.0	1.5	1.5	3.0	1.5	3.0	5.0	000.6891686
3.5	1.5	2.0	1.5	4.0	2.5	0.5	2.0	1.5	2.0	2.0	000.6981520
3.5	1.5	2.0	1.5	4.0	2.5	0.5	2.0	1.5	2.0	4.0	000.3384600
3.5	1.5	2.0	1.5	4.0	2.5	0.5	2.0	1.5	4.0	2.0	000.5344108
3.5	1.5	2.0	1.5	4.0	2.5	0.5	2.0	1.5	4.0	4.0	000.3927106
3.5	1.5	2.0	1.5	4.0	2.5	0.5	3.0	1.5	1.0	3.0	000.2493918
3.5	1.5	2.0	1.5	4.0	2.5	0.5	3.0	1.5	1.0	5.0	000.6291217
3.5	1.5	2.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	1.0	-000.4081627
3.5	1.5	2.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	3.0	-000.2036274

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	2.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	5.0	000.3118743
3.5	1.5	2.0	1.5	4.0	2.5	1.5	1.0	1.5	1.0	3.0	000.1024481
3.5	1.5	2.0	1.5	4.0	2.5	1.5	1.0	1.5	3.0	1.0	-001.5649215
3.5	1.5	2.0	1.5	4.0	2.5	1.5	1.0	1.5	3.0	3.0	-000.0836483
3.5	1.5	2.0	1.5	4.0	2.5	1.5	2.0	1.5	2.0	2.0	-000.6530614
3.5	1.5	2.0	1.5	4.0	2.5	1.5	2.0	1.5	2.0	4.0	-000.3166004
3.5	1.5	2.0	1.5	4.0	2.5	1.5	2.0	1.5	4.0	2.0	-000.4998956
3.5	1.5	2.0	1.5	4.0	2.5	1.5	2.0	1.5	4.0	4.0	-000.3673469
3.5	1.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	1.0	3.0	-000.3624768
3.5	1.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	1.0	5.0	-000.9143933
3.5	1.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	1.0	000.5932423
3.5	1.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	3.0	000.2959606
3.5	1.5	2.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	5.0	-000.4532923
3.5	1.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	2.0	000.1333048
3.5	1.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	4.0	000.3525043
3.5	1.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	6.0	-001.2179342
3.5	1.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	2.0	000.1020400
3.5	1.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	4.0	000.4090054
3.5	1.5	2.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	6.0	000.7458299
3.5	1.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	1.0	000.8430976
3.5	1.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	3.0	000.7886463
3.5	1.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	5.0	000.2842085
3.5	1.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	1.0	000.6598290
3.5	1.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	3.0	000.7053858
3.5	1.5	2.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	5.0	000.4448561
3.5	1.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	2.0	000.1028473
3.5	1.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	4.0	000.4122388
3.5	1.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	6.0	000.7517253

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	2.0	-000.3986215
3.5	1.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	4.0	-000.0921792
3.5	1.5	2.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	6.0	000.4482428
3.5	1.5	2.0	1.5	4.0	3.5	1.5	2.0	1.5	2.0	2.0	000.0000000
3.5	1.5	2.0	1.5	4.0	3.5	1.5	2.0	1.5	2.0	4.0	000.0000000
3.5	1.5	2.0	1.5	4.0	3.5	1.5	2.0	1.5	4.0	2.0	000.0000000
3.5	1.5	2.0	1.5	4.0	3.5	1.5	2.0	1.5	4.0	4.0	000.0000000
3.5	1.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	1.0	-000.4867633
3.5	1.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	3.0	-000.4553244
3.5	1.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	3.0	5.0	-000.1640869
3.5	1.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	1.0	-000.3809520
3.5	1.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	3.0	-000.4072554
3.5	1.5	2.0	1.5	4.0	3.5	1.5	3.0	1.5	5.0	5.0	-000.2568372
3.5	1.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	2.0	-000.1216904
3.5	1.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	4.0	-000.4877672
3.5	1.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	2.0	6.0	-000.8894534
3.5	1.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	2.0	000.4716554
3.5	1.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	4.0	000.1090677
3.5	1.5	2.0	1.5	4.0	3.5	1.5	4.0	1.5	4.0	6.0	-000.5303670
3.5	1.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	3.0	000.1851151
3.5	1.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	5.0	000.3161076
3.5	1.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	3.0	7.0	-001.5445240
3.5	1.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	3.0	000.1655717
3.5	1.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	5.0	000.4947881
3.5	1.5	2.0	1.5	4.0	3.5	1.5	5.0	1.5	5.0	7.0	000.7894068
3.5	1.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	2.0	000.9708518
3.5	1.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	4.0	000.8221323
3.5	1.5	2.0	1.5	4.0	4.5	0.5	4.0	1.5	4.0	6.0	000.2427225

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	2.0 1.5	4.0 4.5	0.5 4.0	1.5 6.0 2.0 000.0613203
3.5	1.5	2.0 1.5	4.0 4.5	0.5 4.0	1.5 6.0 4.0 000.0614469
3.5	1.5	2.0 1.5	4.0 4.5	0.5 4.0	1.5 6.0 6.0 000.0365876
3.5	1.5	2.0 1.5	4.0 4.5	0.5 5.0	1.5 3.0 3.0 000.1792373
3.5	1.5	2.0 1.5	4.0 4.5	0.5 5.0	1.5 3.0 5.0 000.5356234
3.5	1.5	2.0 1.5	4.0 4.5	0.5 5.0	1.5 3.0 7.0 000.8545592
3.5	1.5	2.0 1.5	4.0 4.5	0.5 5.0	1.5 5.0 3.0 -000.3802201
3.5	1.5	2.0 1.5	4.0 4.5	0.5 5.0	1.5 5.0 5.0 000.0000000
3.5	1.5	2.0 1.5	4.0 4.5	0.5 5.0	1.5 5.0 7.0 000.5611035
3.5	1.5	2.0 1.5	4.0 4.5	1.5 3.0	1.5 3.0 1.0 -000.1064799
3.5	1.5	2.0 1.5	4.0 4.5	1.5 3.0	1.5 3.0 3.0 -000.1138308
3.5	1.5	2.0 1.5	4.0 4.5	1.5 3.0	1.5 3.0 5.0 -000.0717885
3.5	1.5	2.0 1.5	4.0 4.5	1.5 3.0	1.5 5.0 1.0 002.1081841
3.5	1.5	2.0 1.5	4.0 4.5	1.5 3.0	1.5 5.0 3.0 000.2414715
3.5	1.5	2.0 1.5	4.0 4.5	1.5 3.0	1.5 5.0 5.0 000.0000000
3.5	1.5	2.0 1.5	4.0 4.5	1.5 4.0	1.5 4.0 2.0 -000.3659041
3.5	1.5	2.0 1.5	4.0 4.5	1.5 4.0	1.5 4.0 4.0 -000.3098520
3.5	1.5	2.0 1.5	4.0 4.5	1.5 4.0	1.5 4.0 6.0 -000.0914784
3.5	1.5	2.0 1.5	4.0 4.5	1.5 4.0	1.5 6.0 2.0 -000.0231108
3.5	1.5	2.0 1.5	4.0 4.5	1.5 4.0	1.5 6.0 4.0 -000.0231587
3.5	1.5	2.0 1.5	4.0 4.5	1.5 4.0	1.5 6.0 6.0 -000.0137895
3.5	1.5	2.0 1.5	4.0 4.5	1.5 5.0	1.5 3.0 3.0 -000.1829331
3.5	1.5	2.0 1.5	4.0 4.5	1.5 5.0	1.5 3.0 5.0 -000.5466671
3.5	1.5	2.0 1.5	4.0 4.5	1.5 5.0	1.5 3.0 7.0 -000.8721817
3.5	1.5	2.0 1.5	4.0 4.5	1.5 5.0	1.5 5.0 3.0 000.3880611
3.5	1.5	2.0 1.5	4.0 4.5	1.5 5.0	1.5 5.0 5.0 000.0000000
3.5	1.5	2.0 1.5	4.0 4.5	1.5 5.0	1.5 5.0 7.0 -000.5726737
3.5	1.5	2.0 1.5	4.0 4.5	1.5 6.0	1.5 4.0 4.0 000.2123568

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	2.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	6.0	000.2794420
3.5	1.5	2.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	8.0	-001.8207741
3.5	1.5	2.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	4.0	000.0158717
3.5	1.5	2.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	6.0	000.0421227
3.5	1.5	2.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	8.0	000.0624887
3.5	1.5	3.0	0.5	3.0	0.5	0.5	0.0	0.5	0.0	3.0	-001.2344268
3.5	1.5	3.0	0.5	3.0	0.5	0.5	1.0	0.5	1.0	4.0	-000.9369712
3.5	1.5	3.0	0.5	3.0	0.5	1.5	1.0	0.5	1.0	4.0	000.1656346
3.5	1.5	3.0	0.5	3.0	0.5	1.5	2.0	0.5	0.0	3.0	000.4364358
3.5	1.5	3.0	0.5	3.0	1.5	0.5	1.0	0.5	1.0	2.0	-001.7705066
3.5	1.5	3.0	0.5	3.0	1.5	0.5	1.0	0.5	1.0	4.0	-000.8700446
3.5	1.5	3.0	0.5	3.0	1.5	0.5	2.0	0.5	2.0	3.0	-000.1371585
3.5	1.5	3.0	0.5	3.0	1.5	0.5	2.0	0.5	2.0	5.0	-001.3839982
3.5	1.5	3.0	0.5	3.0	1.5	1.5	0.0	0.5	2.0	3.0	000.0000000
3.5	1.5	3.0	0.5	3.0	1.5	1.5	1.0	0.5	1.0	2.0	-000.3958972
3.5	1.5	3.0	0.5	3.0	1.5	1.5	1.0	0.5	1.0	4.0	000.1197217
3.5	1.5	3.0	0.5	3.0	1.5	1.5	2.0	0.5	2.0	3.0	-000.2743171
3.5	1.5	3.0	0.5	3.0	1.5	1.5	2.0	0.5	2.0	5.0	000.3459994
3.5	1.5	3.0	0.5	3.0	1.5	1.5	3.0	0.5	1.0	2.0	000.5278630
3.5	1.5	3.0	0.5	3.0	1.5	1.5	3.0	0.5	1.0	4.0	000.5387479
3.5	1.5	3.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	1.0	-001.9794867
3.5	1.5	3.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	3.0	-001.0972683
3.5	1.5	3.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	5.0	-000.8402842
3.5	1.5	3.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	2.0	000.1311485
3.5	1.5	3.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	4.0	-000.1642739
3.5	1.5	3.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	6.0	-001.7117539
3.5	1.5	3.0	0.5	3.0	2.5	1.5	1.0	0.5	3.0	2.0	000.1616246
3.5	1.5	3.0	0.5	3.0	2.5	1.5	1.0	0.5	3.0	4.0	000.1649573

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	3.0 0.5 3.0 2.5 1.5	2.0 0.5	2.0 1.0	-000.5290401
3.5	1.5	3.0 0.5 3.0 2.5 1.5	2.0 0.5	2.0 3.0	-000.0183288
3.5	1.5	3.0 0.5 3.0 2.5 1.5	2.0 0.5	2.0 5.0	000.0528408
3.5	1.5	3.0 0.5 3.0 2.5 1.5	3.0 0.5	3.0 2.0	-000.3335795
3.5	1.5	3.0 0.5 3.0 2.5 1.5	3.0 0.5	3.0 4.0	-000.2571291
3.5	1.5	3.0 0.5 3.0 2.5 1.5	3.0 0.5	3.0 6.0	000.4784495
3.5	1.5	3.0 0.5 3.0 2.5 1.5	4.0 0.5	2.0 1.0	000.5399488
3.5	1.5	3.0 0.5 3.0 2.5 1.5	4.0 0.5	2.0 3.0	000.6734345
3.5	1.5	3.0 0.5 3.0 2.5 1.5	4.0 0.5	2.0 5.0	000.6067227
3.5	1.5	3.0 0.5 3.0 3.5 0.5	3.0 0.5	3.0 2.0	-000.8196789
3.5	1.5	3.0 0.5 3.0 3.5 0.5	3.0 0.5	3.0 4.0	-000.9856445
3.5	1.5	3.0 0.5 3.0 3.5 0.5	3.0 0.5	3.0 6.0	-000.8558772
3.5	1.5	3.0 0.5 3.0 3.5 0.5	4.0 0.5	4.0 1.0	000.2688192
3.5	1.5	3.0 0.5 3.0 3.5 0.5	4.0 0.5	4.0 3.0	000.2244407
3.5	1.5	3.0 0.5 3.0 3.5 0.5	4.0 0.5	4.0 5.0	-000.1710986
3.5	1.5	3.0 0.5 3.0 3.5 0.5	4.0 0.5	4.0 7.0	-001.9816255
3.5	1.5	3.0 0.5 3.0 3.5 1.5	2.0 0.5	4.0 1.0	000.2493922
3.5	1.5	3.0 0.5 3.0 3.5 1.5	2.0 0.5	4.0 3.0	000.3110460
3.5	1.5	3.0 0.5 3.0 3.5 1.5	2.0 0.5	4.0 5.0	000.2802324
3.5	1.5	3.0 0.5 3.0 3.5 1.5	3.0 0.5	3.0 2.0	000.0000000
3.5	1.5	3.0 0.5 3.0 3.5 1.5	3.0 0.5	3.0 4.0	000.0000000
3.5	1.5	3.0 0.5 3.0 3.5 1.5	3.0 0.5	3.0 6.0	000.0000000
3.5	1.5	3.0 0.5 3.0 3.5 1.5	4.0 0.5	4.0 1.0	-000.3304627
3.5	1.5	3.0 0.5 3.0 3.5 1.5	4.0 0.5	4.0 3.0	-000.3793742
3.5	1.5	3.0 0.5 3.0 3.5 1.5	4.0 0.5	4.0 5.0	-000.2313675
3.5	1.5	3.0 0.5 3.0 3.5 1.5	4.0 0.5	4.0 7.0	000.5861722
3.5	1.5	3.0 0.5 3.0 3.5 1.5	5.0 0.5	3.0 2.0	000.6349209
3.5	1.5	3.0 0.5 3.0 3.5 1.5	5.0 0.5	3.0 4.0	000.7634767

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	3.0	0.5	3.0	3.5	1.5	5.0	0.5	3.0	6.0	000.6629595
3.5	1.5	3.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	1.0	001.7106670
3.5	1.5	3.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	3.0	-000.5611032
3.5	1.5	3.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	5.0	-000.9581525
3.5	1.5	3.0	0.5	3.0	4.5	0.5	4.0	0.5	4.0	7.0	-000.8846537
3.5	1.5	3.0	0.5	3.0	4.5	0.5	5.0	0.5	5.0	2.0	000.3725810
3.5	1.5	3.0	0.5	3.0	4.5	0.5	5.0	0.5	5.0	4.0	000.3032754
3.5	1.5	3.0	0.5	3.0	4.5	0.5	5.0	0.5	5.0	6.0	-000.1711751
3.5	1.5	3.0	0.5	3.0	4.5	0.5	5.0	0.5	5.0	8.0	-002.2161745
3.5	1.5	3.0	0.5	3.0	4.5	1.5	3.0	0.5	5.0	2.0	000.3549309
3.5	1.5	3.0	0.5	3.0	4.5	1.5	3.0	0.5	5.0	4.0	000.4267969
3.5	1.5	3.0	0.5	3.0	4.5	1.5	3.0	0.5	5.0	6.0	000.3706045
3.5	1.5	3.0	0.5	3.0	4.5	1.5	4.0	0.5	4.0	1.0	000.7092046
3.5	1.5	3.0	0.5	3.0	4.5	1.5	4.0	0.5	4.0	3.0	000.0845893
3.5	1.5	3.0	0.5	3.0	4.5	1.5	4.0	0.5	4.0	5.0	-000.0180553
3.5	1.5	3.0	0.5	3.0	4.5	1.5	4.0	0.5	4.0	7.0	-000.0426767
3.5	1.5	3.0	0.5	3.0	4.5	1.5	5.0	0.5	5.0	2.0	-000.3650515
3.5	1.5	3.0	0.5	3.0	4.5	1.5	5.0	0.5	5.0	4.0	-000.3946490
3.5	1.5	3.0	0.5	3.0	4.5	1.5	5.0	0.5	5.0	6.0	-000.2096470
3.5	1.5	3.0	0.5	3.0	4.5	1.5	5.0	0.5	5.0	8.0	000.6785610
3.5	1.5	3.0	0.5	3.0	4.5	1.5	6.0	0.5	4.0	3.0	000.6978258
3.5	1.5	3.0	0.5	3.0	4.5	1.5	6.0	0.5	4.0	5.0	000.8341374
3.5	1.5	3.0	0.5	3.0	4.5	1.5	6.0	0.5	4.0	7.0	000.7129400
3.5	1.5	3.0	1.5	3.0	0.5	0.5	0.0	1.5	2.0	3.0	000.5039526
3.5	1.5	3.0	1.5	3.0	0.5	0.5	1.0	1.5	1.0	4.0	000.3825168
3.5	1.5	3.0	1.5	3.0	0.5	1.5	1.0	1.5	1.0	4.0	-000.0676200
3.5	1.5	3.0	1.5	3.0	0.5	1.5	2.0	1.5	2.0	3.0	-000.1781741
3.5	1.5	3.0	1.5	3.0	1.5	0.5	1.0	1.5	1.0	2.0	-001.3714285

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	3.0	1.5	3.0	1.5	0.5	1.0	1.5	1.0	4.0	000.8985783
3.5	1.5	3.0	1.5	3.0	1.5	0.5	1.0	1.5	3.0	2.0	000.3047617
3.5	1.5	3.0	1.5	3.0	1.5	0.5	1.0	1.5	3.0	4.0	000.6739336
3.5	1.5	3.0	1.5	4.0	1.5	0.5	2.0	1.5	0.0	3.0	-000.2375655
3.5	1.5	3.0	1.5	3.0	1.5	0.5	2.0	1.5	2.0	3.0	-000.1583771
3.5	1.5	3.0	1.5	3.0	1.5	0.5	2.0	1.5	2.0	5.0	000.7990518
3.5	1.5	3.0	1.5	3.0	1.5	1.5	0.0	1.5	0.0	3.0	000.0000000
3.5	1.5	3.0	1.5	3.0	1.5	1.5	0.0	1.5	2.0	3.0	000.0000000
3.5	1.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	1.0	2.0	-000.3066607
3.5	1.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	1.0	4.0	-000.1236480
3.5	1.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	3.0	2.0	000.0681467
3.5	1.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	3.0	4.0	-000.0927358
3.5	1.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	0.0	3.0	-000.4751310
3.5	1.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	3.0	-000.3167539
3.5	1.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	5.0	-000.1997628
3.5	1.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	1.0	2.0	000.4088808
3.5	1.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	1.0	4.0	-000.5564164
3.5	1.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	2.0	-000.0908625
3.5	1.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	4.0	-000.4173126
3.5	1.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	1.0	-001.8326484
3.5	1.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	3.0	-000.1693118
3.5	1.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	5.0	001.0372697
3.5	1.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	1.0	000.1246961
3.5	1.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	3.0	000.4147285
3.5	1.5	3.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	5.0	000.7939940
3.5	1.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	1.0	2.0	000.2488371
3.5	1.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	1.0	4.0	-000.1904763
3.5	1.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	2.0	000.2201053

J_1	S"	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
3.5	1.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	4.0	-000.1272456
3.5	1.5	3.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	6.0	001.1049331
3.5	1.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	1.0	2.0	000.3066607
3.5	1.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	1.0	4.0	000.1912680
3.5	1.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	3.0	2.0	000.2712526
3.5	1.5	3.0	1.5	3.0	2.5	1.5	1.0	1.5	3.0	4.0	000.1277755
3.5	1.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	1.0	-000.4897959
3.5	1.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	3.0	-000.0028277
3.5	1.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	5.0	-000.0652284
3.5	1.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	1.0	000.0333261
3.5	1.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	3.0	000.0069268
3.5	1.5	3.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	5.0	-000.0499306
3.5	1.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	1.0	2.0	-000.6329234
3.5	1.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	1.0	4.0	-000.2981422
3.5	1.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	2.0	-000.5598446
3.5	1.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	4.0	-000.1991721
3.5	1.5	3.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	6.0	-000.3088374
3.5	1.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	1.0	000.4998960
3.5	1.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	3.0	000.1039128
3.5	1.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	5.0	-000.7489546
3.5	1.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	1.0	-000.0340140
3.5	1.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	3.0	-000.2545336
3.5	1.5	3.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	5.0	-000.5732995
3.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	2.0	-000.5464527
3.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	4.0	000.1095154
3.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	6.0	001.1411693
3.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	2.0	000.1221907
3.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	4.0	000.4897704

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	3.0 1.5 3.0 3.5 0.5	3.0	1.5 5.0 6.0	000.8931058
3.5	1.5	3.0 1.5 3.0 3.5 0.5	4.0	1.5 2.0 1.0	000.5279501
3.5	1.5	3.0 1.5 3.0 3.5 0.5	4.0	1.5 2.0 3.0	000.3591650
3.5	1.5	3.0 1.5 3.0 3.5 0.5	4.0	1.5 2.0 5.0	-000.1617921
3.5	1.5	3.0 1.5 3.0 3.5 0.5	4.0	1.5 4.0 1.0	000.5246806
3.5	1.5	3.0 1.5 3.0 3.5 0.5	4.0	1.5 4.0 3.0	000.3285475
3.5	1.5	3.0 1.5 3.0 3.5 0.5	4.0	1.5 4.0 5.0	-000.1001850
3.5	1.5	3.0 1.5 3.0 3.5 0.5	4.0	1.5 4.0 7.0	001.3537069
3.5	1.5	3.0 1.5 3.0 3.5 1.5	2.0	1.5 2.0 1.0	000.4897957
3.5	1.5	3.0 1.5 3.0 3.5 1.5	2.0	1.5 2.0 3.0	000.4977557
3.5	1.5	3.0 1.5 3.0 3.5 1.5	2.0	1.5 2.0 5.0	000.2649912
3.5	1.5	3.0 1.5 3.0 3.5 1.5	2.0	1.5 4.0 1.0	000.4867633
3.5	1.5	3.0 1.5 3.0 3.5 1.5	2.0	1.5 4.0 3.0	000.4553244
3.5	1.5	3.0 1.5 3.0 3.5 1.5	2.0	1.5 4.0 5.0	000.1640869
3.5	1.5	3.0 1.5 3.0 3.5 1.5	3.0	1.5 3.0 2.0	000.0000000
3.5	1.5	3.0 1.5 3.0 3.5 1.5	3.0	1.5 3.0 4.0	-000.0000000
3.5	1.5	3.0 1.5 3.0 3.5 1.5	3.0	1.5 3.0 6.0	000.0000000
3.5	1.5	3.0 1.5 3.0 3.5 1.5	3.0	1.5 5.0 2.0	000.0000000
3.5	1.5	3.0 1.5 3.0 3.5 1.5	3.0	1.5 5.0 4.0	-000.0000000
3.5	1.5	3.0 1.5 3.0 3.5 1.5	3.0	1.5 5.0 6.0	000.0000000
3.5	1.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 2.0 1.0	-000.6490168
3.5	1.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 2.0 3.0	-000.6071006
3.5	1.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 2.0 5.0	-000.2187829
3.5	1.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 4.0 1.0	-000.6449975
3.5	1.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 4.0 3.0	-000.5553468
3.5	1.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 4.0 5.0	-000.1354737
3.5	1.5	3.0 1.5 3.0 3.5 1.5	4.0	1.5 4.0 7.0	-000.4004308
3.5	1.5	3.0 1.5 3.0 3.5 1.5	5.0	1.5 3.0 2.0	000.4232799

J_1 , S''	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H	
3.5	1.5	3.0	1.5	3.0	4.0	-000.0848303
3.5	1.5	3.0	1.5	3.0	6.0	-000.8839457
3.5	1.5	3.0	1.5	3.0	2.0	-000.0946472
3.5	1.5	3.0	1.5	3.0	4.0	-000.3793753
3.5	1.5	3.0	1.5	3.0	6.0	-000.6917966
3.5	1.5	3.0	1.5	3.0	1.0	001.6378396
3.5	1.5	3.0	1.5	3.0	3.0	-000.2930257
3.5	1.5	3.0	1.5	3.0	5.0	000.2501886
3.5	1.5	3.0	1.5	3.0	7.0	001.2319877
3.5	1.5	3.0	1.5	3.0	3.0	000.1151112
3.5	1.5	3.0	1.5	3.0	5.0	000.5503882
3.5	1.5	3.0	1.5	3.0	7.0	000.9800405
3.5	1.5	3.0	1.5	3.0	2.0	000.6830652
3.5	1.5	3.0	1.5	3.0	4.0	000.4380649
3.5	1.5	3.0	1.5	3.0	6.0	-000.1426465
3.5	1.5	3.0	1.5	3.0	2.0	000.7025451
3.5	1.5	3.0	1.5	3.0	4.0	000.4050682
3.5	1.5	3.0	1.5	3.0	6.0	-000.0806934
3.5	1.5	3.0	1.5	3.0	8.0	001.5670730
3.5	1.5	3.0	1.5	3.0	2.0	000.6507075
3.5	1.5	3.0	1.5	3.0	4.0	000.6164843
3.5	1.5	3.0	1.5	3.0	6.0	000.3088364
3.5	1.5	3.0	1.5	3.0	2.0	000.6692644
3.5	1.5	3.0	1.5	3.0	4.0	000.5700492
3.5	1.5	3.0	1.5	3.0	6.0	000.1747038
3.5	1.5	3.0	1.5	3.0	1.0	000.6790110
3.5	1.5	3.0	1.5	3.0	3.0	000.0441746
3.5	1.5	3.0	1.5	3.0	5.0	000.0047134

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	4.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	7.0	000.0594337
3.5	1.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	3.0	-000.0173530
3.5	1.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	5.0	000.0103701
3.5	1.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	7.0	000.0472786
3.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	2.0	-000.6692644
3.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	4.0	-000.5700492
3.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	6.0	-000.1747038
3.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	2.0	-000.6883504
3.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	4.0	-000.5271112
3.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	6.0	-000.0988261
3.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	8.0	-000.4798147
3.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	3.0	000.3644281
3.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	5.0	-000.2178069
3.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	7.0	-000.9928588
3.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	3.0	-000.1431597
3.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	5.0	-000.4791521
3.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	7.0	-000.7898130
3.5	1.5	3.0	1.5	5.0	0.5	0.5	0.0	1.5	2.0	3.0	-001.1268723
3.5	1.5	3.0	1.5	5.0	0.5	0.5	1.0	1.5	1.0	4.0	-000.8553337
3.5	1.5	3.0	1.5	5.0	0.5	1.5	1.0	1.5	1.0	4.0	000.1512029
3.5	1.5	3.0	1.5	5.0	0.5	1.5	2.0	1.5	2.0	3.0	000.3984095
3.5	1.5	3.0	1.5	5.0	1.5	0.5	1.0	1.5	1.0	4.0	000.7032487
3.5	1.5	3.0	1.5	5.0	1.5	0.5	1.0	1.5	3.0	2.0	-001.7036708
3.5	1.5	3.0	1.5	5.0	1.5	0.5	1.0	1.5	3.0	4.0	-000.6027843
3.5	1.5	3.0	1.5	5.0	1.5	0.5	2.0	1.5	0.0	5.0	001.0720404
3.5	1.5	3.0	1.5	5.0	1.5	0.5	2.0	1.5	2.0	3.0	-000.1770708
3.5	1.5	3.0	1.5	5.0	1.5	0.5	2.0	1.5	2.0	5.0	-000.7146936
3.5	1.5	3.0	1.5	5.0	1.5	1.5	0.0	1.5	2.0	3.0	000.0000000

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
3.5	1.5	3.0	1.5	5.0	1.5	1.5	1.0	1.5	1.0	4.0	-000.0967698
3.5	1.5	3.0	1.5	5.0	1.5	1.5	1.0	1.5	3.0	2.0	-000.3809523
3.5	1.5	3.0	1.5	5.0	1.5	1.5	1.0	1.5	3.0	4.0	000.0829455
3.5	1.5	3.0	1.5	5.0	1.5	1.5	2.0	1.5	0.0	5.0	-000.2680099
3.5	1.5	3.0	1.5	5.0	1.5	1.5	2.0	1.5	2.0	3.0	-000.3541418
3.5	1.5	3.0	1.5	5.0	1.5	1.5	2.0	1.5	2.0	5.0	000.1786728
3.5	1.5	3.0	1.5	5.0	1.5	1.5	3.0	1.5	1.0	4.0	-000.4354646
3.5	1.5	3.0	1.5	5.0	1.5	1.5	3.0	1.5	3.0	2.0	000.5079365
3.5	1.5	3.0	1.5	5.0	1.5	1.5	3.0	1.5	3.0	4.0	000.3732556
3.5	1.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	2.0	3.0	000.3785936
3.5	1.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	2.0	5.0	000.8117916
3.5	1.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	4.0	1.0	-001.9517998
3.5	1.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	4.0	3.0	-000.9273604
3.5	1.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	4.0	5.0	-000.4971190
3.5	1.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	1.0	4.0	000.0542075
3.5	1.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	1.0	6.0	001.4524714
3.5	1.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	2.0	000.1892962
3.5	1.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	4.0	-000.1707189
3.5	1.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	6.0	-000.6917975
3.5	1.5	3.0	1.5	5.0	2.5	1.5	1.0	1.5	1.0	4.0	-000.0544326
3.5	1.5	3.0	1.5	5.0	2.5	1.5	1.0	1.5	3.0	2.0	000.2332846
3.5	1.5	3.0	1.5	5.0	2.5	1.5	1.0	1.5	3.0	4.0	000.1714280
3.5	1.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	2.0	3.0	000.0063239
3.5	1.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	2.0	5.0	-000.0510492
3.5	1.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	4.0	1.0	-000.5216409
3.5	1.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	4.0	3.0	-000.0154905
3.5	1.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	4.0	5.0	000.0312612

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	3.0	1.5	5.0	2.5	1.5	3.0	1.5	1.0	4.0	000.0848482
3.5	1.5	3.0	1.5	5.0	2.5	1.5	3.0	1.5	1.0	6.0	-000.4059780
3.5	1.5	3.0	1.5	5.0	2.5	1.5	3.0	1.5	3.0	2.0	-000.4814811
3.5	1.5	3.0	1.5	5.0	2.5	1.5	3.0	1.5	3.0	4.0	-000.2672171
3.5	1.5	3.0	1.5	5.0	2.5	1.5	3.0	1.5	3.0	6.0	000.1933624
3.5	1.5	3.0	1.5	5.0	2.5	1.5	4.0	1.5	2.0	3.0	-000.2323565
3.5	1.5	3.0	1.5	5.0	2.5	1.5	4.0	1.5	2.0	5.0	-000.5861500
3.5	1.5	3.0	1.5	5.0	2.5	1.5	4.0	1.5	4.0	1.0	000.5323974
3.5	1.5	3.0	1.5	5.0	2.5	1.5	4.0	1.5	4.0	3.0	000.5691560
3.5	1.5	3.0	1.5	5.0	2.5	1.5	4.0	1.5	4.0	5.0	000.3589418
3.5	1.5	3.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	2.0	000.1221907
3.5	1.5	3.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	4.0	000.4897704
3.5	1.5	3.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	6.0	000.8931058
3.5	1.5	3.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	2.0	-000.0695485
3.5	1.5	3.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	4.0	-000.0696921
3.5	1.5	3.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	6.0	-000.0414970
3.5	1.5	3.0	1.5	5.0	3.5	0.5	4.0	1.5	2.0	3.0	-000.0365050
3.5	1.5	3.0	1.5	5.0	3.5	0.5	4.0	1.5	2.0	5.0	000.0779210
3.5	1.5	3.0	1.5	5.0	3.5	0.5	4.0	1.5	2.0	7.0	001.7404814
3.5	1.5	3.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	1.0	000.4106282
3.5	1.5	3.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	3.0	000.2938616
3.5	1.5	3.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	5.0	-000.1568151
3.5	1.5	3.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	7.0	-000.6918808
3.5	1.5	3.0	1.5	5.0	3.5	1.5	2.0	1.5	2.0	3.0	-000.0505910
3.5	1.5	3.0	1.5	5.0	3.5	1.5	2.0	1.5	2.0	5.0	-000.1276241
3.5	1.5	3.0	1.5	5.0	3.5	1.5	2.0	1.5	4.0	1.0	000.3809520
3.5	1.5	3.0	1.5	5.0	3.5	1.5	2.0	1.5	4.0	3.0	000.4072554
3.5	1.5	3.0	1.5	5.0	3.5	1.5	2.0	1.5	4.0	5.0	000.2568372

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
3.5	1.5	4.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	2.0	000.0000000
3.5	1.5	3.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	4.0	-000.0000000
3.5	1.5	3.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	6.0	000.0000000
3.5	1.5	3.0	1.5	5.0	3.5	1.5	3.0	1.5	5.0	2.0	000.0000000
3.5	1.5	3.0	1.5	5.0	3.5	1.5	3.0	1.5	5.0	4.0	-000.0000000
3.5	1.5	3.0	1.5	5.0	3.5	1.5	3.0	1.5	5.0	6.0	000.0000000
3.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	3.0	000.0617055
3.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	5.0	000.1053687
3.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	7.0	-000.5148409
3.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	1.0	-000.5047910
3.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	3.0	-000.4967182
3.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	5.0	-000.2120514
3.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	7.0	000.2046600
3.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	2.0	-000.0946472
3.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	4.0	-000.3793753
3.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	6.0	-000.6917966
3.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	2.0	000.0539720
3.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	4.0	000.0539832
3.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	6.0	000.0321434
3.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	1.0	-000.0665869
3.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	3.0	000.1310456
3.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	5.0	000.5594396
3.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	7.0	000.9641828
3.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	1.0	000.2775768
3.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	3.0	-000.0826157
3.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	5.0	-000.1151644
3.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	7.0	-000.0717730
3.5	1.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	2.0	-000.0277707

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	3.0 1.5 5.0	4.5 0.5 5.0	1.5 3.0 4.0	-000.0751447
3.5	1.5	3.0 1.5 5.0	4.5 0.5 5.0	1.5 3.0 6.0	000.0892109
3.5	1.5	3.0 1.5 5.0	4.5 0.5 5.0	1.5 3.0 8.0	001.9822082
3.5	1.5	3.0 1.5 5.0	4.5 0.5 5.0	1.5 5.0 2.0	000.0499844
3.5	1.5	3.0 1.5 5.0	4.5 0.5 5.0	1.5 5.0 4.0	000.0339054
3.5	1.5	3.0 1.5 5.0	4.5 0.5 5.0	1.5 5.0 6.0	-000.0131225
3.5	1.5	3.0 1.5 5.0	4.5 0.5 5.0	1.5 5.0 8.0	-000.0637105
3.5	1.5	3.0 1.5 5.0	4.5 1.5 3.0	1.5 3.0 2.0	-000.0264549
3.5	1.5	3.0 1.5 5.0	4.5 1.5 3.0	1.5 3.0 4.0	-000.1060378
3.5	1.5	3.0 1.5 5.0	4.5 1.5 3.0	1.5 3.0 6.0	-000.1932632
3.5	1.5	3.0 1.5 5.0	4.5 1.5 3.0	1.5 5.0 2.0	000.0476166
3.5	1.5	3.0 1.5 5.0	4.5 1.5 3.0	1.5 5.0 4.0	000.0477149
3.5	1.5	3.0 1.5 5.0	4.5 1.5 3.0	1.5 5.0 6.0	000.0284110
3.5	1.5	3.0 1.5 5.0	4.5 1.5 4.0	1.5 4.0 1.0	-000.0276045
3.5	1.5	3.0 1.5 5.0	4.5 1.5 4.0	1.5 4.0 3.0	-000.0197550
3.5	1.5	3.0 1.5 5.0	4.5 1.5 4.0	1.5 4.0 5.0	000.0105409
3.5	1.5	3.0 1.5 5.0	4.5 1.5 4.0	1.5 4.0 7.0	000.0465129
3.5	1.5	3.0 1.5 5.0	4.5 1.5 4.0	1.5 6.0 1.0	000.1150775
3.5	1.5	3.0 1.5 5.0	4.5 1.5 4.0	1.5 6.0 3.0	000.0124545
3.5	1.5	3.0 1.5 5.0	4.5 1.5 4.0	1.5 6.0 5.0	-000.0021701
3.5	1.5	3.0 1.5 5.0	4.5 1.5 4.0	1.5 6.0 7.0	-000.0034623
3.5	1.5	3.0 1.5 5.0	4.5 1.5 5.0	1.5 3.0 2.0	000.0272100
3.5	1.5	3.0 1.5 5.0	4.5 1.5 5.0	1.5 3.0 4.0	000.0980500
3.5	1.5	3.0 1.5 5.0	4.5 1.5 5.0	1.5 3.0 6.0	000.1092819
3.5	1.5	3.0 1.5 5.0	4.5 1.5 5.0	1.5 3.0 8.0	-000.6069226
3.5	1.5	3.0 1.5 5.0	4.5 1.5 5.0	1.5 5.0 2.0	-000.0489744
3.5	1.5	3.0 1.5 5.0	4.5 1.5 5.0	1.5 5.0 4.0	-000.0441208
3.5	1.5	3.0 1.5 5.0	4.5 1.5 5.0	1.5 5.0 6.0	-000.0160715

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	8.0	000.0195071
3.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	3.0	-000.1629757
3.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	5.0	-000.4870317
3.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	7.0	-000.7770335
3.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	3.0	000.1027464
3.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	5.0	000.1002584
3.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	7.0	000.0578418
3.5	1.5	4.0	0.5	4.0	0.5	0.5	0.0	0.5	0.0	4.0	-000.9601097
3.5	1.5	4.0	0.5	4.0	0.5	0.5	1.0	0.5	1.0	3.0	-001.2046772
3.5	1.5	4.0	0.5	4.0	0.5	1.5	1.0	0.5	1.0	3.0	000.2129589
3.5	1.5	4.0	0.5	4.0	0.5	1.5	2.0	0.5	0.0	4.0	-000.0484927
3.5	1.5	4.0	0.5	4.0	1.5	0.5	1.0	0.5	1.0	3.0	-000.2007794
3.5	1.5	4.0	0.5	4.0	1.5	0.5	1.0	0.5	1.0	5.0	-001.4181761
3.5	1.5	4.0	0.5	4.0	1.5	0.5	2.0	0.5	2.0	2.0	-001.7278372
3.5	1.5	4.0	0.5	4.0	1.5	0.5	2.0	0.5	2.0	4.0	-000.8032572
3.5	1.5	4.0	0.5	4.0	1.5	1.5	0.0	0.5	2.0	4.0	-000.5486339
3.5	1.5	4.0	0.5	4.0	1.5	1.5	1.0	0.5	1.0	3.0	000.3591651
3.5	1.5	4.0	0.5	4.0	1.5	1.5	1.0	0.5	1.0	5.0	-000.3171136
3.5	1.5	4.0	0.5	4.0	1.5	1.5	2.0	0.5	2.0	2.0	000.4319591
3.5	1.5	4.0	0.5	4.0	1.5	1.5	2.0	0.5	2.0	4.0	-000.0391882
3.5	1.5	4.0	0.5	4.0	1.5	1.5	3.0	0.5	1.0	3.0	-000.1795827
3.5	1.5	4.0	0.5	4.0	1.5	1.5	3.0	0.5	1.0	5.0	-000.1812077
3.5	1.5	4.0	0.5	4.0	2.5	0.5	2.0	0.5	2.0	2.0	000.0479955
3.5	1.5	4.0	0.5	4.0	2.5	0.5	2.0	0.5	2.0	4.0	-000.2565039
3.5	1.5	4.0	0.5	4.0	2.5	0.5	2.0	0.5	2.0	6.0	-001.7540265
3.5	1.5	4.0	0.5	4.0	2.5	0.5	3.0	0.5	3.0	1.0	-001.9317809
3.5	1.5	4.0	0.5	4.0	2.5	0.5	3.0	0.5	3.0	3.0	-001.0038977
3.5	1.5	4.0	0.5	4.0	2.5	0.5	3.0	0.5	3.0	5.0	-000.7525013

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	4.0 0.5 4.0 2.5 1.5	1.0 0.5	3.0 3.0	-000.6048431
3.5	1.5	4.0 0.5 4.0 2.5 1.5	1.0 0.5	3.0 5.0	-000.6103164
3.5	1.5	4.0 0.5 4.0 2.5 1.5	2.0 0.5	2.0 2.0	000.3591648
3.5	1.5	4.0 0.5 4.0 2.5 1.5	2.0 0.5	2.0 4.0	000.2849256
3.5	1.5	4.0 0.5 4.0 2.5 1.5	2.0 0.5	2.0 6.0	-000.4687810
3.5	1.5	4.0 0.5 4.0 2.5 1.5	3.0 0.5	3.0 1.0	000.5399498
3.5	1.5	4.0 0.5 4.0 2.5 1.5	3.0 0.5	3.0 3.0	000.0448956
3.5	1.5	4.0 0.5 4.0 2.5 1.5	3.0 0.5	3.0 5.0	-000.0275050
3.5	1.5	4.0 0.5 4.0 2.5 1.5	4.0 0.5	2.0 2.0	-000.2749292
3.5	1.5	4.0 0.5 4.0 2.5 1.5	4.0 0.5	2.0 4.0	-000.3305950
3.5	1.5	4.0 0.5 4.0 2.5 1.5	4.0 0.5	2.0 6.0	-000.2870691
3.5	1.5	4.0 0.5 4.0 3.5 0.5	3.0 0.5	3.0 1.0	000.1788664
3.5	1.5	4.0 0.5 4.0 3.5 0.5	3.0 0.5	3.0 3.0	000.1095158
3.5	1.5	4.0 0.5 4.0 3.5 0.5	3.0 0.5	3.0 5.0	-000.2838578
3.5	1.5	4.0 0.5 4.0 3.5 0.5	3.0 0.5	3.0 7.0	-002.0305621
3.5	1.5	4.0 0.5 4.0 3.5 0.5	4.0 0.5	4.0 2.0	-000.7199320
3.5	1.5	4.0 0.5 4.0 3.5 0.5	4.0 0.5	4.0 4.0	-000.8657013
3.5	1.5	4.0 0.5 4.0 3.5 0.5	4.0 0.5	4.0 6.0	-000.7517248
3.5	1.5	4.0 0.5 4.0 3.5 1.5	2.0 0.5	4.0 2.0	-000.6349202
3.5	1.5	4.0 0.5 4.0 3.5 1.5	2.0 0.5	4.0 4.0	-000.7634776
3.5	1.5	4.0 0.5 4.0 3.5 1.5	2.0 0.5	4.0 6.0	-000.6629583
3.5	1.5	4.0 0.5 4.0 3.5 1.5	3.0 0.5	3.0 1.0	000.3304627
3.5	1.5	4.0 0.5 4.0 3.5 1.5	3.0 0.5	3.0 3.0	000.3793742
3.5	1.5	4.0 0.5 4.0 3.5 1.5	3.0 0.5	3.0 5.0	000.2312675
3.5	1.5	4.0 0.5 4.0 3.5 1.5	3.0 0.5	3.0 7.0	-000.5861722
3.5	1.5	4.0 0.5 4.0 3.5 1.5	4.0 0.5	4.0 2.0	-000.0000000
3.5	1.5	4.0 0.5 4.0 3.5 1.5	4.0 0.5	4.0 4.0	000.0000000
3.5	1.5	4.0 0.5 4.0 3.5 1.5	4.0 0.5	4.0 6.0	-000.0000000

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
3.5	1.5	4.0	0.5	4.0	3.5	1.5	5.0	0.5	3.0	1.0	-000.3232863
3.5	1.5	4.0	0.5	4.0	3.5	1.5	5.0	0.5	3.0	3.0	-000.4241534
3.5	1.5	4.0	0.5	4.0	3.5	1.5	5.0	0.5	3.0	5.0	-000.4526844
3.5	1.5	4.0	0.5	4.0	3.5	1.5	5.0	0.5	3.0	7.0	-000.4744910
3.5	1.5	4.0	0.5	4.0	4.5	0.5	4.0	0.5	4.0	2.0	000.2617928
3.5	1.5	4.0	0.5	4.0	4.5	0.5	4.0	0.5	4.0	4.0	000.1664806
3.5	1.5	4.0	0.5	4.0	4.5	0.5	4.0	0.5	4.0	6.0	-000.4006489
3.5	1.5	4.0	0.5	4.0	4.5	0.5	4.0	0.5	4.0	8.0	-002.2709034
3.5	1.5	4.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	1.0	001.7529118
3.5	1.5	4.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	3.0	-000.4380623
3.5	1.5	4.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	5.0	-000.8181771
3.5	1.5	4.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	7.0	-000.7666410
3.5	1.5	4.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	1.0	-000.6144559
3.5	1.5	4.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	3.0	-000.8061710
3.5	1.5	4.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	5.0	-000.8603969
3.5	1.5	4.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	7.0	-000.7117805
3.5	1.5	4.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	2.0	000.3502673
3.5	1.5	4.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	4.0	000.3764699
3.5	1.5	4.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	6.0	000.1926556
3.5	1.5	4.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	8.0	-000.6847027
3.5	1.5	4.0	0.5	4.0	4.5	1.5	5.0	0.5	5.0	1.0	-000.7156227
3.5	1.5	4.0	0.5	4.0	4.5	1.5	5.0	0.5	5.0	3.0	-000.1005967
3.5	1.5	4.0	0.5	4.0	4.5	1.5	5.0	0.5	5.0	5.0	000.0000000
3.5	1.5	4.0	0.5	4.0	4.5	1.5	5.0	0.5	5.0	7.0	000.0274919
3.5	1.5	4.0	0.5	4.0	4.5	1.5	6.0	0.5	4.0	2.0	-000.0319559
3.5	1.5	4.0	0.5	4.0	4.5	1.5	6.0	0.5	4.0	4.0	-000.0406433
3.5	1.5	4.0	0.5	4.0	4.5	1.5	6.0	0.5	4.0	6.0	-000.0419475
3.5	1.5	4.0	0.5	4.0	4.5	1.5	6.0	0.5	4.0	8.0	-000.0339428

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	4.0 1.5 2.0 0.5 0.5 0.0	1.5	2.0 4.0	000.7698003
3.5	1.5	4.0 1.5 2.0 0.5 0.5 1.0	1.5	1.0 3.0	000.9658906
3.5	1.5	4.0 1.5 2.0 1.5 1.5 1.0	1.5	1.0 3.0	-000.1707469
3.5	1.5	4.0 1.5 2.0 0.5 1.5 2.0	1.5	2.0 4.0	000.0388808
3.5	1.5	4.0 1.5 2.0 1.5 0.5 1.0	1.5	1.0 3.0	-000.3054414
3.5	1.5	4.0 1.5 2.0 1.5 0.5 1.0	1.5	3.0 3.0	000.0678758
3.5	1.5	4.0 1.5 2.0 1.5 0.5 1.0	1.5	3.0 5.0	001.1985774
3.5	1.5	4.0 1.5 2.0 1.5 0.5 2.0	1.5	0.0 2.0	-001.5238095
3.5	1.5	4.0 1.5 2.0 1.5 0.5 2.0	1.5	2.0 2.0	000.4353740
3.5	1.5	4.0 1.5 2.0 1.5 0.5 2.0	1.5	2.0 4.0	000.9109214
3.5	1.5	4.0 1.5 2.0 1.5 1.5 0.0	1.5	2.0 4.0	000.6220925
3.5	1.5	4.0 1.5 2.0 1.5 1.5 1.0	1.5	1.0 3.0	000.5463902
3.5	1.5	4.0 1.5 2.0 1.5 1.5 1.0	1.5	3.0 3.0	-000.1214197
3.5	1.5	4.0 1.5 2.0 1.5 1.5 1.0	1.5	3.0 5.0	000.2680098
3.5	1.5	4.0 1.5 2.0 1.5 1.5 2.0	1.5	0.0 2.0	000.3809524
3.5	1.5	4.0 1.5 2.0 1.5 1.5 2.0	1.5	2.0 2.0	-000.1088433
3.5	1.5	4.0 1.5 2.0 1.5 1.5 2.0	1.5	2.0 4.0	000.0444351
3.5	1.5	4.0 1.5 2.0 1.5 1.5 3.0	1.5	1.0 3.0	-000.2731952
3.5	1.5	4.0 1.5 2.0 1.5 1.5 3.0	1.5	3.0 3.0	000.0607101
3.5	1.5	4.0 1.5 2.0 1.5 1.5 3.0	1.5	3.0 5.0	000.1531488
3.5	1.5	4.0 1.5 2.0 2.5 0.5 2.0	1.5	2.0 2.0	000.0872685
3.5	1.5	4.0 1.5 2.0 2.5 0.5 2.0	1.5	2.0 4.0	-000.2850189
3.5	1.5	4.0 1.5 2.0 2.5 0.5 2.0	1.5	4.0 2.0	-000.0059377
3.5	1.5	4.0 1.5 2.0 2.5 0.5 2.0	1.5	4.0 4.0	000.1057800
3.5	1.5	4.0 1.5 2.0 2.5 0.5 2.0	1.5	4.0 6.0	001.5190314
3.5	1.5	4.0 1.5 2.0 2.5 0.5 3.0	1.5	1.0 1.0	-001.8662777
3.5	1.5	4.0 1.5 2.0 2.5 0.5 3.0	1.5	1.0 3.0	-000.6234796
3.5	1.5	4.0 1.5 2.0 2.5 0.5 3.0	1.5	3.0 1.0	000.1632651

J_1 , S''	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
3.5	1.5	4.0 1.5 2.0 2.5 0.5 3.0	1.5	3.0 3.0	000.5090686
3.5	1.5	4.0 1.5 2.0 2.5 0.5 3.0	1.5	3.0 5.0	000.9539695
3.5	1.5	4.0 1.5 2.0 2.5 1.5 1.0	1.5	1.0 3.0	-000.3756431
3.5	1.5	4.0 1.5 2.0 2.5 1.5 1.0	1.5	3.0 3.0	000.3067113
3.5	1.5	4.0 1.5 2.0 2.5 1.5 1.0	1.5	3.0 5.0	000.7737175
3.5	1.5	4.0 1.5 2.0 2.5 1.5 2.0	1.5	2.0 2.0	000.6530614
3.5	1.5	4.0 1.5 2.0 2.5 1.5 2.0	1.5	2.0 4.0	000.3166004
3.5	1.5	4.0 1.5 2.0 2.5 1.5 2.0	1.5	4.0 2.0	-000.0444346
3.5	1.5	4.0 1.5 2.0 2.5 1.5 2.0	1.5	4.0 4.0	-000.1175015
3.5	1.5	4.0 1.5 2.0 2.5 1.5 2.0	1.5	4.0 6.0	000.4059781
3.5	1.5	4.0 1.5 2.0 2.5 1.5 3.0	1.5	1.0 1.0	000.5216403
3.5	1.5	4.0 1.5 2.0 2.5 1.5 3.0	1.5	1.0 3.0	000.0278828
3.5	1.5	4.0 1.5 2.0 2.5 1.5 3.0	1.5	3.0 1.0	-000.0456336
3.5	1.5	4.0 1.5 2.0 2.5 1.5 3.0	1.5	3.0 3.0	-000.0227659
3.5	1.5	4.0 1.5 2.0 2.5 1.5 3.0	1.5	3.0 5.0	000.0348687
3.5	1.5	4.0 1.5 2.0 2.5 1.5 4.0	1.5	2.0 2.0	-000.4998956
3.5	1.5	4.0 1.5 2.0 2.5 1.5 4.0	1.5	2.0 4.0	-000.3673469
3.5	1.5	4.0 1.5 2.0 2.5 1.5 4.0	1.5	4.0 2.0	000.0340137
3.5	1.5	4.0 1.5 2.0 2.5 1.5 4.0	1.5	4.0 4.0	000.1363343
3.5	1.5	4.0 1.5 2.0 2.5 1.5 4.0	1.5	4.0 6.0	000.2486100
3.5	1.5	4.0 1.5 2.0 3.5 0.5 3.0	1.5	3.0 1.0	000.3512904
3.5	1.5	4.0 1.5 2.0 3.5 0.5 3.0	1.5	3.0 3.0	000.1752547
3.5	1.5	4.0 1.5 2.0 3.5 0.5 3.0	1.5	3.0 5.0	-000.2684186
3.5	1.5	4.0 1.5 2.0 3.5 0.5 3.0	1.5	5.0 3.0	-000.0178129
3.5	1.5	4.0 1.5 2.0 3.5 0.5 3.0	1.5	5.0 5.0	000.1292743
3.5	1.5	4.0 1.5 2.0 3.5 0.5 3.0	1.5	5.0 7.0	001.7834628
3.5	1.5	4.0 1.5 2.0 3.5 0.5 4.0	1.5	2.0 2.0	-000.6170847
3.5	1.5	4.0 1.5 2.0 3.5 0.5 4.0	1.5	2.0 4.0	-000.4534626

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	2.0	000.1379842
3.5	1.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	4.0	000.5530764
3.5	1.5	4.0	1.5	2.0	3.5	0.5	4.0	1.5	4.0	6.0	001.0085454
3.5	1.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	2.0	2.0	-000.5442175
3.5	1.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	2.0	4.0	-000.3999163
3.5	1.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	2.0	000.1216904
3.5	1.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	4.0	000.4877672
3.5	1.5	4.0	1.5	2.0	3.5	1.5	2.0	1.5	4.0	6.0	000.8894534
3.5	1.5	4.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	1.0	000.6490168
3.5	1.5	4.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	3.0	000.6071006
3.5	1.5	4.0	1.5	2.0	3.5	1.5	3.0	1.5	3.0	5.0	000.2187829
3.5	1.5	4.0	1.5	2.0	3.5	1.5	3.0	1.5	5.0	3.0	-000.0617055
3.5	1.5	4.0	1.5	2.0	3.5	1.5	3.0	1.5	5.0	5.0	-000.1053687
3.5	1.5	4.0	1.5	2.0	3.5	1.5	3.0	1.5	5.0	7.0	000.5148409
3.5	1.5	4.0	1.5	2.0	3.5	1.5	4.0	1.5	2.0	2.0	000.0000000
3.5	1.5	4.0	1.5	2.0	3.5	1.5	4.0	1.5	2.0	4.0	000.0000000
3.5	1.5	4.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	2.0	000.0000000
3.5	1.5	4.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	4.0	000.0000000
3.5	1.5	4.0	1.5	2.0	3.5	1.5	4.0	1.5	4.0	6.0	000.0000000
3.5	1.5	4.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	1.0	-000.6349202
3.5	1.5	4.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	3.0	-000.6787580
3.5	1.5	4.0	1.5	2.0	3.5	1.5	5.0	1.5	3.0	5.0	-000.4280632
3.5	1.5	4.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	3.0	000.0689892
3.5	1.5	4.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	5.0	000.2061611
3.5	1.5	4.0	1.5	2.0	3.5	1.5	5.0	1.5	5.0	7.0	000.3289197
3.5	1.5	4.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	2.0	000.4922633
3.5	1.5	4.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	4.0	000.2466391
3.5	1.5	4.0	1.5	2.0	4.5	0.5	4.0	1.5	4.0	6.0	-000.2570010

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	4.0 1.5 2.0 4.5 0.5	4.0 1.5 6.0 4.0	-000.0313019	
3.5	1.5	4.0 1.5 2.0 4.5 0.5	4.0 1.5 6.0 6.0	000.1453811	
3.5	1.5	4.0 1.5 2.0 4.5 0.5	4.0 1.5 6.0 8.0	002.0129409	
3.5	1.5	4.0 1.5 2.0 4.5 0.5	5.0 1.5 3.0 1.0	001.7213257	
3.5	1.5	4.0 1.5 2.0 4.5 0.5	5.0 1.5 3.0 3.0	-000.3505096	
3.5	1.5	4.0 1.5 2.0 4.5 0.5	5.0 1.5 3.0 5.0	-000.3868397	
3.5	1.5	4.0 1.5 2.0 4.5 0.5	5.0 1.5 5.0 3.0	000.1126585	
3.5	1.5	4.0 1.5 2.0 4.5 0.5	5.0 1.5 5.0 5.0	000.5891559	
3.5	1.5	4.0 1.5 2.0 4.5 0.5	5.0 1.5 5.0 7.0	001.0646564	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	3.0 1.5 3.0 1.0	-000.6033827	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	3.0 1.5 3.0 3.0	-000.6450433	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	3.0 1.5 3.0 5.0	-000.4068001	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	3.0 1.5 5.0 3.0	000.2073246	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	3.0 1.5 5.0 5.0	000.6195571	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	3.0 1.5 5.0 7.0	000.9884711	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	4.0 1.5 4.0 2.0	000.6586273	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	4.0 1.5 4.0 4.0	000.5577345	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	4.0 1.5 4.0 6.0	000.1646631	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	4.0 1.5 6.0 4.0	-000.0707864	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	4.0 1.5 6.0 6.0	-000.0931466	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	4.0 1.5 6.0 8.0	000.6069247	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	5.0 1.5 3.0 1.0	-000.7027280	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	5.0 1.5 3.0 3.0	-000.0804905	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	5.0 1.5 3.0 5.0	000.0000000	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	5.0 1.5 5.0 3.0	000.0258703	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	5.0 1.5 5.0 5.0	000.0000000	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	5.0 1.5 5.0 7.0	-000.0381773	
3.5	1.5	4.0 1.5 2.0 4.5 1.5	6.0 1.5 4.0 2.0	-000.0600884	

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	4.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	4.0	-000.0602125
3.5	1.5	4.0	1.5	2.0	4.5	1.5	6.0	1.5	4.0	6.0	-000.0358525
3.5	1.5	4.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	4.0	000.0076420
3.5	1.5	4.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	6.0	000.0202813
3.5	1.5	4.0	1.5	2.0	4.5	1.5	6.0	1.5	6.0	8.0	000.0300870
3.5	1.5	4.0	1.5	4.0	0.5	0.5	0.0	1.5	2.0	4.0	-000.5737752
3.5	1.5	4.0	1.5	4.0	0.5	0.5	1.0	1.5	1.0	3.0	-000.7199324
3.5	1.5	4.0	1.5	4.0	0.5	1.5	1.0	1.5	1.0	3.0	000.1272672
3.5	1.5	4.0	1.5	4.0	0.5	1.5	2.0	1.5	2.0	4.0	-000.0289800
3.5	1.5	4.0	1.5	4.0	1.5	0.5	1.0	1.5	1.0	3.0	-000.3035501
3.5	1.5	4.0	1.5	4.0	1.5	0.5	1.0	1.5	1.0	5.0	000.7504282
3.5	1.5	4.0	1.5	4.0	1.5	0.5	1.0	1.5	3.0	3.0	-000.2276625
3.5	1.5	4.0	1.5	4.0	1.5	0.5	1.0	1.5	3.0	5.0	-000.6432239
3.5	1.5	4.0	1.5	4.0	1.5	0.5	2.0	1.5	0.0	4.0	000.9505450
3.5	1.5	4.0	1.5	4.0	1.5	0.5	2.0	1.5	2.0	2.0	-001.4602894
3.5	1.5	4.0	1.5	4.0	1.5	0.5	2.0	1.5	2.0	4.0	000.2715841
3.5	1.5	4.0	1.5	4.0	1.5	1.5	0.0	1.5	0.0	4.0	000.6491525
3.5	1.5	4.0	1.5	4.0	1.5	1.5	0.0	1.5	2.0	4.0	000.1854720
3.5	1.5	4.0	1.5	4.0	1.5	1.5	1.0	1.5	1.0	3.0	000.5430067
3.5	1.5	4.0	1.5	4.0	1.5	1.5	1.0	1.5	1.0	5.0	000.1678009
3.5	1.5	4.0	1.5	4.0	1.5	1.5	1.0	1.5	3.0	3.0	000.4072551
3.5	1.5	4.0	1.5	4.0	1.5	1.5	1.0	1.5	3.0	5.0	-000.1438288
3.5	1.5	4.0	1.5	4.0	1.5	1.5	2.0	1.5	0.0	4.0	000.0463679
3.5	1.5	4.0	1.5	4.0	1.5	1.5	2.0	1.5	2.0	2.0	000.3650722
3.5	1.5	4.0	1.5	4.0	1.5	1.5	2.0	1.5	2.0	4.0	000.0132480
3.5	1.5	4.0	1.5	4.0	1.5	1.5	3.0	1.5	1.0	3.0	-000.2715034
3.5	1.5	4.0	1.5	4.0	1.5	1.5	3.0	1.5	1.0	5.0	000.0958858
3.5	1.5	4.0	1.5	4.0	1.5	1.5	3.0	1.5	3.0	3.0	-000.2036273

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	4.0 1.5 4.0 1.5 1.5 3.0	1.5	3.0 5.0	-000.0821883
3.5	1.5	4.0 1.5 4.0 2.5 0.5 2.0	1.5	2.0 2.0	000.0867284
3.5	1.5	4.0 1.5 4.0 2.5 0.5 2.0	1.5	2.0 4.0	-000.2201658
3.5	1.5	4.0 1.5 4.0 2.5 0.5 2.0	1.5	2.0 6.0	001.1093436
3.5	1.5	4.0 1.5 4.0 2.5 0.5 2.0	1.5	4.0 2.0	000.0663877
3.5	1.5	4.0 1.5 4.0 2.5 0.5 2.0	1.5	4.0 4.0	-000.2554551
3.5	1.5	4.0 1.5 4.0 2.5 0.5 2.0	1.5	4.0 6.0	-000.6792312
3.5	1.5	4.0 1.5 4.0 2.5 0.5 3.0	1.5	1.0 3.0	000.4647145
3.5	1.5	4.0 1.5 4.0 2.5 0.5 3.0	1.5	1.0 5.0	000.9753537
3.5	1.5	4.0 1.5 4.0 2.5 0.5 3.0	1.5	3.0 1.0	-001.8253615
3.5	1.5	4.0 1.5 4.0 2.5 0.5 3.0	1.5	3.0 3.0	-000.3794379
3.5	1.5	4.0 1.5 4.0 2.5 0.5 3.0	1.5	3.0 5.0	000.4835121
3.5	1.5	4.0 1.5 4.0 2.5 1.5 1.0	1.5	1.0 3.0	000.2799878
3.5	1.5	4.0 1.5 4.0 2.5 1.5 1.0	1.5	1.0 5.0	000.7910613
3.5	1.5	4.0 1.5 4.0 2.5 1.5 1.0	1.5	3.0 3.0	-000.2286086
3.5	1.5	4.0 1.5 4.0 2.5 1.5 1.0	1.5	3.0 5.0	000.3921525
3.5	1.5	4.0 1.5 4.0 2.5 1.5 2.0	1.5	2.0 2.0	000.6490170
3.5	1.5	4.0 1.5 4.0 2.5 1.5 2.0	1.5	2.0 4.0	000.2445613
3.5	1.5	4.0 1.5 4.0 2.5 1.5 2.0	1.5	2.0 6.0	000.2964841
3.5	1.5	4.0 1.5 4.0 2.5 1.5 2.0	1.5	4.0 2.0	000.4968004
3.5	1.5	4.0 1.5 4.0 2.5 1.5 2.0	1.5	4.0 4.0	000.2837609
3.5	1.5	4.0 1.5 4.0 2.5 1.5 2.0	1.5	4.0 6.0	-000.1815586
3.5	1.5	4.0 1.5 4.0 2.5 1.5 3.0	1.5	1.0 3.0	-000.0207826
3.5	1.5	4.0 1.5 4.0 2.5 1.5 3.0	1.5	1.0 5.0	000.0356499
3.5	1.5	4.0 1.5 4.0 2.5 1.5 3.0	1.5	3.0 1.0	000.5102045
3.5	1.5	4.0 1.5 4.0 2.5 1.5 3.0	1.5	3.0 3.0	000.0169682
3.5	1.5	4.0 1.5 4.0 2.5 1.5 3.0	1.5	3.0 5.0	000.0176723
3.5	1.5	4.0 1.5 4.0 2.5 1.5 4.0	1.5	2.0 2.0	-000.4968004

J_1 , S''	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
3.5	1.5	4.0 1.5 4.0 2.5 1.5 4.0	1.5	2.0 4.0	-000.2837609
3.5	1.5	4.0 1.5 4.0 2.5 1.5 4.0	1.5	2.0 6.0	000.1815586
3.5	1.5	4.0 1.5 4.0 2.5 1.5 4.0	1.5	4.0 2.0	-000.3802837
3.5	1.5	4.0 1.5 4.0 2.5 1.5 4.0	1.5	4.0 4.0	-000.3292436
3.5	1.5	4.0 1.5 4.0 2.5 1.5 4.0	1.5	4.0 6.0	-000.1111812
3.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	3.0 1.0	000.3491150
3.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	3.0 3.0	000.1603148
3.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	3.0 5.0	-000.1662097
3.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	3.0 7.0	001.3871373
3.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	5.0 1.0	000.2732254
3.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	5.0 3.0	000.1433897
3.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	5.0 5.0	-000.2601605
3.5	1.5	4.0 1.5 4.0 3.5 0.5 3.0	1.5	5.0 7.0	-000.7089674
3.5	1.5	4.0 1.5 4.0 3.5 0.5 4.0	1.5	2.0 2.0	000.1379842
3.5	1.5	4.0 1.5 4.0 3.5 0.5 4.0	1.5	2.0 4.0	000.5530764
3.5	1.5	4.0 1.5 4.0 3.5 0.5 4.0	1.5	2.0 6.0	001.0085454
3.5	1.5	4.0 1.5 4.0 3.5 0.5 4.0	1.5	4.0 2.0	-000.5348068
3.5	1.5	4.0 1.5 4.0 3.5 0.5 4.0	1.5	4.0 4.0	-000.1236714
3.5	1.5	4.0 1.5 4.0 3.5 0.5 4.0	1.5	4.0 6.0	000.6013808
3.5	1.5	4.0 1.5 4.0 3.5 1.5 2.0	1.5	2.0 2.0	000.1216904
3.5	1.5	4.0 1.5 4.0 3.5 1.5 2.0	1.5	2.0 4.0	000.4877672
3.5	1.5	4.0 1.5 4.0 3.5 1.5 2.0	1.5	2.0 6.0	000.8894534
3.5	1.5	4.0 1.5 4.0 3.5 1.5 2.0	1.5	4.0 2.0	-000.4716554
3.5	1.5	4.0 1.5 4.0 3.5 1.5 2.0	1.5	4.0 4.0	-000.1090677
3.5	1.5	4.0 1.5 4.0 3.5 1.5 2.0	1.5	4.0 6.0	000.5303670
3.5	1.5	4.0 1.5 4.0 3.5 1.5 3.0	1.5	3.0 1.0	000.6449975
3.5	1.5	4.0 1.5 4.0 3.5 1.5 3.0	1.5	3.0 3.0	000.5553468
3.5	1.5	4.0 1.5 4.0 3.5 1.5 3.0	1.5	3.0 5.0	000.1354737

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	4.0 1.5 4.0	3.5 1.5 3.0	1.5 3.0 7.0	000.4004325
3.5	1.5	4.0 1.5 4.0	3.5 1.5 3.0	1.5 5.0 1.0	000.5047910
3.5	1.5	4.0 1.5 4.0	3.5 1.5 3.0	1.5 5.0 3.0	000.4967182
3.5	1.5	4.0 1.5 4.0	3.5 1.5 3.0	1.5 5.0 5.0	000.2120514
3.5	1.5	4.0 1.5 4.0	3.5 1.5 3.0	1.5 5.0 7.0	-000.2046600
3.5	1.5	4.0 1.5 4.0	3.5 1.5 4.0	1.5 2.0 2.0	000.0000000
3.5	1.5	4.0 1.5 4.0	3.5 1.5 4.0	1.5 2.0 4.0	000.0000000
3.5	1.5	4.0 1.5 4.0	3.5 1.5 4.0	1.5 2.0 6.0	000.0000000
3.5	1.5	4.0 1.5 4.0	3.5 1.5 4.0	1.5 4.0 2.0	000.0000000
3.5	1.5	4.0 1.5 4.0	3.5 1.5 4.0	1.5 4.0 4.0	000.0000000
3.5	1.5	4.0 1.5 4.0	3.5 1.5 4.0	1.5 4.0 6.0	000.0000000
3.5	1.5	4.0 1.5 4.0	3.5 1.5 5.0	1.5 3.0 1.0	-000.6309887
3.5	1.5	4.0 1.5 4.0	3.5 1.5 5.0	1.5 3.0 3.0	-000.6208983
3.5	1.5	4.0 1.5 4.0	3.5 1.5 5.0	1.5 3.0 5.0	-000.2650637
3.5	1.5	4.0 1.5 4.0	3.5 1.5 5.0	1.5 3.0 7.0	000.2558265
3.5	1.5	4.0 1.5 4.0	3.5 1.5 5.0	1.5 5.0 1.0	-000.4938278
3.5	1.5	4.0 1.5 4.0	3.5 1.5 5.0	1.5 5.0 3.0	-000.5553480
3.5	1.5	4.0 1.5 4.0	3.5 1.5 5.0	1.5 5.0 5.0	-000.4148916
3.5	1.5	4.0 1.5 4.0	3.5 1.5 5.0	1.5 5.0 7.0	-000.1307521
3.5	1.5	4.0 1.5 4.0	4.5 0.5 4.0	1.5 4.0 2.0	000.4736485
3.5	1.5	4.0 1.5 4.0	4.5 0.5 4.0	1.5 4.0 4.0	000.2121160
3.5	1.5	4.0 1.5 4.0	4.5 0.5 4.0	1.5 4.0 6.0	-000.1302586
3.5	1.5	4.0 1.5 4.0	4.5 0.5 4.0	1.5 4.0 8.0	001.6203034
3.5	1.5	4.0 1.5 4.0	4.5 0.5 4.0	1.5 6.0 2.0	000.0299163
3.5	1.5	4.0 1.5 4.0	4.5 0.5 4.0	1.5 6.0 4.0	000.0158537
3.5	1.5	4.0 1.5 4.0	4.5 0.5 4.0	1.5 6.0 6.0	-000.0196349
3.5	1.5	4.0 1.5 4.0	4.5 0.5 4.0	1.5 6.0 8.0	-000.0556085
3.5	1.5	4.0 1.5 4.0	4.5 0.5 5.0	1.5 3.0 1.0	-000.0855326

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
3.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	3.0	000.1282525
3.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	5.0	000.5988446
3.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	7.0	001.0474299
3.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	1.0	001.6934749
3.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	3.0	-000.2720641
3.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	5.0	000.0000000
3.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	7.0	000.6877420
3.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	1.0	000.0299820
3.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	3.0	000.2360212
3.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	5.0	000.6297460
3.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	7.0	000.9724781
3.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	1.0	-000.5936192
3.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	3.0	-000.5006793
3.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	5.0	000.0000000
3.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	7.0	000.6385273
3.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	2.0	000.6337207
3.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	4.0	000.4796652
3.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	6.0	000.0834572
3.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	8.0	000.4885402
3.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	2.0	000.0400266
3.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	4.0	000.0358507
3.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	6.0	000.0125802
3.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	8.0	-000.0167664
3.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	1.0	000.0349182
3.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	3.0	000.0294519
3.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	5.0	000.0000000
3.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	7.0	-000.0375591
3.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	1.0	-000.6913590

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
3.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	3.0	-000.0624761
3.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	5.0	000.0000000
3.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	7.0	-000.0246597
3.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	2.0	-000.0578164
3.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	4.0	-000.0517843
3.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	6.0	-000.0181715
3.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	8.0	000.0242184
3.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	2.0	-000.0036518
3.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	4.0	-000.0038704
3.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	6.0	-000.0027391
3.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	8.0	-000.0008312
3.5	1.5	5.0	0.5	3.0	0.5	0.5	1.0	0.5	1.0	4.0	000.2095130
3.5	1.5	5.0	0.5	3.0	0.5	1.5	1.0	0.5	1.0	4.0	000.9629629
3.5	1.5	5.0	0.5	3.0	0.5	1.5	2.0	0.5	0.0	3.0	000.9759000
3.5	1.5	5.0	0.5	3.0	1.5	0.5	1.0	0.5	1.0	4.0	-000.2095130
3.5	1.5	5.0	0.5	3.0	1.5	0.5	2.0	0.5	2.0	3.0	000.3066957
3.5	1.5	5.0	0.5	3.0	1.5	0.5	2.0	0.5	2.0	5.0	000.3094715
3.5	1.5	5.0	0.5	3.0	1.5	1.5	0.0	0.5	2.0	5.0	-001.3926211
3.5	1.5	5.0	0.5	3.0	1.5	1.5	1.0	0.5	1.0	4.0	-000.7495769
3.5	1.5	5.0	0.5	3.0	1.5	1.5	2.0	0.5	2.0	3.0	000.6133911
3.5	1.5	5.0	0.5	3.0	1.5	1.5	2.0	0.5	2.0	5.0	000.6189425
3.5	1.5	5.0	0.5	3.0	1.5	1.5	3.0	0.5	1.0	2.0	001.4754222
3.5	1.5	5.0	0.5	3.0	1.5	1.5	3.0	0.5	1.0	4.0	000.2409355
3.5	1.5	5.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	3.0	-000.3066957
3.5	1.5	5.0	0.5	3.0	2.5	0.5	2.0	0.5	2.0	5.0	-000.3094715
3.5	1.5	5.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	2.0	000.3665715
3.5	1.5	5.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	4.0	000.4407937
3.5	1.5	5.0	0.5	3.0	2.5	0.5	3.0	0.5	3.0	6.0	000.3827597

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	5.0 0.5	3.0 2.5	1.5 1.0 0.5	3.0 4.0 -000.3286166
3.5	1.5	5.0 0.5	3.0 2.5	1.5 1.0 0.5	3.0 6.0 -001.8868159
3.5	1.5	5.0 0.5	3.0 2.5	1.5 2.0 0.5	2.0 3.0 -000.6967269
3.5	1.5	5.0 0.5	3.0 2.5	1.5 2.0 0.5	2.0 5.0 -000.7030323
3.5	1.5	5.0 0.5	3.0 2.5	1.5 3.0 0.5	3.0 2.0 000.4508228
3.5	1.5	5.0 0.5	3.0 2.5	1.5 3.0 0.5	3.0 4.0 000.5421049
3.5	1.5	5.0 0.5	3.0 2.5	1.5 3.0 0.5	3.0 6.0 000.4707325
3.5	1.5	5.0 0.5	3.0 2.5	1.5 4.0 0.5	2.0 1.0 001.6903086
3.5	1.5	5.0 0.5	3.0 2.5	1.5 4.0 0.5	2.0 3.0 000.3011695
3.5	1.5	5.0 0.5	3.0 2.5	1.5 4.0 0.5	2.0 5.0 000.0759740
3.5	1.5	5.0 0.5	3.0 3.5	0.5 3.0 0.5	3.0 2.0 -000.3665712
3.5	1.5	5.0 0.5	3.0 3.5	0.5 3.0 0.5	3.0 4.0 -000.4407932
3.5	1.5	5.0 0.5	3.0 3.5	0.5 3.0 0.5	3.0 6.0 -000.3827595
3.5	1.5	5.0 0.5	3.0 3.5	0.5 4.0 0.5	4.0 1.0 000.3825166
3.5	1.5	5.0 0.5	3.0 3.5	0.5 4.0 0.5	4.0 3.0 000.5018663
3.5	1.5	5.0 0.5	3.0 3.5	0.5 4.0 0.5	4.0 5.0 000.5356232
3.5	1.5	5.0 0.5	3.0 3.5	0.5 4.0 0.5	4.0 7.0 000.4431041
3.5	1.5	5.0 0.5	3.0 3.5	1.5 2.0 0.5	4.0 3.0 -000.1264581
3.5	1.5	5.0 0.5	3.0 3.5	1.5 2.0 0.5	4.0 5.0 -000.5398572
3.5	1.5	5.0 0.5	3.0 3.5	1.5 2.0 0.5	4.0 7.0 -002.2609509
3.5	1.5	5.0 0.5	3.0 3.5	1.5 3.0 0.5	3.0 2.0 -000.6349209
3.5	1.5	5.0 0.5	3.0 3.5	1.5 3.0 0.5	3.0 4.0 -000.7634767
3.5	1.5	5.0 0.5	3.0 3.5	1.5 3.0 0.5	3.0 6.0 -000.6629595
3.5	1.5	5.0 0.5	3.0 3.5	1.5 4.0 0.5	4.0 1.0 000.3232863
3.5	1.5	5.0 0.5	3.0 3.5	1.5 4.0 0.5	4.0 3.0 000.4241534
3.5	1.5	5.0 0.5	3.0 3.5	1.5 4.0 0.5	4.0 5.0 000.4526844
3.5	1.5	5.0 0.5	3.0 3.5	1.5 4.0 0.5	4.0 7.0 000.3744910
3.5	1.5	5.0 0.5	3.0 3.5	1.5 5.0 0.5	3.0 2.0 000.0000000

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	5.0 0.5 3.0 3.5 1.5 5.0	0.5	3.0 4.0	000.0000000
3.5	1.5	5.0 0.5 3.0 3.5 1.5 5.0	0.5	3.0 6.0	000.0000000
3.5	1.5	5.0 0.5 3.0 4.5 0.5 4.0	0.5	4.0 1.0	-000.3825166
3.5	1.5	5.0 0.5 3.0 4.5 0.5 4.0	0.5	4.0 3.0	-000.5018645
3.5	1.5	5.0 0.5 3.0 4.5 0.5 4.0	0.5	4.0 5.0	-000.5356226
3.5	1.5	5.0 0.5 3.0 4.5 0.5 4.0	0.5	4.0 7.0	-000.4431046
3.5	1.5	5.0 0.5 3.0 4.5 0.5 5.0	0.5	5.0 2.0	000.0424131
3.5	1.5	5.0 0.5 3.0 4.5 0.5 5.0	0.5	5.0 4.0	000.0539434
3.5	1.5	5.0 0.5 3.0 4.5 0.5 5.0	0.5	5.0 6.0	000.0556742
3.5	1.5	5.0 0.5 3.0 4.5 0.5 5.0	0.5	5.0 8.0	000.0450501
3.5	1.5	5.0 0.5 3.0 4.5 1.5 3.0	0.5	5.0 2.0	-000.0432900
3.5	1.5	5.0 0.5 3.0 4.5 1.5 3.0	0.5	5.0 4.0	-000.2202323
3.5	1.5	5.0 0.5 3.0 4.5 1.5 3.0	0.5	5.0 6.0	-000.6961071
3.5	1.5	5.0 0.5 3.0 4.5 1.5 3.0	0.5	5.0 8.0	-002.5749638
3.5	1.5	5.0 0.5 3.0 4.5 1.5 4.0	0.5	4.0 1.0	-000.5478316
3.5	1.5	5.0 0.5 3.0 4.5 1.5 4.0	0.5	4.0 3.0	-000.7187606
3.5	1.5	5.0 0.5 3.0 4.5 1.5 4.0	0.5	4.0 5.0	-000.7671082
3.5	1.5	5.0 0.5 3.0 4.5 1.5 4.0	0.5	4.0 7.0	-000.6346051
3.5	1.5	5.0 0.5 3.0 4.5 1.5 5.0	0.5	5.0 2.0	000.0259728
3.5	1.5	5.0 0.5 3.0 4.5 1.5 5.0	0.5	5.0 4.0	000.0330332
3.5	1.5	5.0 0.5 3.0 4.5 1.5 5.0	0.5	5.0 6.0	000.0340922
3.5	1.5	5.0 0.5 3.0 4.5 1.5 5.0	0.5	5.0 8.0	000.0275874
3.5	1.5	5.0 0.5 3.0 4.5 1.5 6.0	0.5	4.0 1.0	-000.3605831
3.5	1.5	5.0 0.5 3.0 4.5 1.5 6.0	0.5	4.0 3.0	-000.0715475
3.5	1.5	5.0 0.5 3.0 4.5 1.5 6.0	0.5	4.0 5.0	-000.0249338
3.5	1.5	5.0 0.5 3.0 4.5 1.5 6.0	0.5	4.0 7.0	-000.0074588
3.5	1.5	5.0 1.5 3.0 0.5 0.5 1.0	1.5	1.0 4.0	-000.0855334
3.5	1.5	5.0 1.5 3.0 0.5 1.5 1.0	1.5	1.0 4.0	-000.3931280

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	5.0	1.5	3.0	0.5	1.5	2.0	1.5	2.0	3.0	-000.3984095
3.5	1.5	5.0	1.5	3.0	1.5	0.5	1.0	1.5	1.0	4.0	000.2163842
3.5	1.5	5.0	1.5	3.0	1.5	0.5	1.0	1.5	3.0	4.0	000.1622881
3.5	1.5	5.0	1.5	3.0	1.5	0.5	2.0	1.5	0.0	3.0	000.5312127
3.5	1.5	5.0	1.5	3.0	1.5	0.5	2.0	1.5	2.0	3.0	000.3541416
3.5	1.5	5.0	1.5	3.0	1.5	0.5	2.0	1.5	2.0	5.0	-000.1786731
3.5	1.5	5.0	1.5	3.0	1.5	1.5	0.0	1.5	2.0	5.0	000.8040300
3.5	1.5	5.0	1.5	3.0	1.5	1.5	1.0	1.5	1.0	4.0	000.7741597
3.5	1.5	5.0	1.5	3.0	1.5	1.5	1.0	1.5	3.0	4.0	000.5806197
3.5	1.5	5.0	1.5	3.0	1.5	1.5	2.0	1.5	0.0	3.0	001.0624255
3.5	1.5	5.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	3.0	000.7082837
3.5	1.5	5.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	5.0	-000.3573469
3.5	1.5	5.0	1.5	3.0	1.5	1.5	3.0	1.5	1.0	2.0	001.1428571
3.5	1.5	5.0	1.5	3.0	1.5	1.5	3.0	1.5	1.0	4.0	-000.2488369
3.5	1.5	5.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	2.0	-000.2539678
3.5	1.5	5.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	4.0	-000.1866276
3.5	1.5	5.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	3.0	-000.0473238
3.5	1.5	5.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	5.0	000.3820198
3.5	1.5	5.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	3.0	000.1159201
3.5	1.5	5.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	5.0	000.2924226
3.5	1.5	5.0	1.5	3.0	2.5	0.5	3.0	1.5	1.0	2.0	000.6955205
3.5	1.5	5.0	1.5	3.0	2.5	0.5	3.0	1.5	1.0	4.0	000.5111008
3.5	1.5	5.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	2.0	000.6152144
3.5	1.5	5.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	4.0	000.3414377
3.5	1.5	5.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	6.0	-000.2470702
3.5	1.5	5.0	1.5	3.0	2.5	1.5	1.0	1.5	1.0	4.0	-000.3810315
3.5	1.5	5.0	1.5	3.0	2.5	1.5	1.0	1.5	3.0	4.0	-000.2545451
3.5	1.5	5.0	1.5	3.0	2.5	1.5	1.0	1.5	3.0	6.0	001.2179345

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	5.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	3.0	-000.1075067
3.5	1.5	5.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	5.0	000.8679421
3.5	1.5	5.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	3.0	000.2633375
3.5	1.5	5.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	5.0	000.6643029
3.5	1.5	5.0	1.5	3.0	2.5	1.5	3.0	1.5	1.0	2.0	000.8553771
3.5	1.5	5.0	1.5	3.0	2.5	1.5	3.0	1.5	1.0	4.0	000.6285708
3.5	1.5	5.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	2.0	000.7566129
3.5	1.5	5.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	4.0	000.4199119
3.5	1.5	5.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	6.0	-000.3038562
3.5	1.5	5.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	1.0	001.5649214
3.5	1.5	5.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	3.0	000.0464712
3.5	1.5	5.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	5.0	-000.0937835
3.5	1.5	5.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	1.0	-000.1064800
3.5	1.5	5.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	3.0	-000.1138313
3.5	1.5	5.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	5.0	-000.0717883
3.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	2.0	-000.2443804
3.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	4.0	000.0489772
3.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	6.0	000.5103463
3.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	2.0	000.0546445
3.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	4.0	000.2190322
3.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	6.0	000.3994087
3.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	1.0	000.7512473
3.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	3.0	000.8031186
3.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	5.0	000.5064911
3.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	1.0	000.7465972
3.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	3.0	000.7346556
3.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	5.0	000.3136287
3.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	7.0	-000.3026981

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	5.0 1.5 3.0	3.5 1.5 2.0	1.5 2.0 3.0	-000.2023661
3.5	1.5	5.0 1.5 3.0	3.5 1.5 2.0	1.5 2.0 5.0	-000.5104946
3.5	1.5	5.0 1.5 3.0	3.5 1.5 2.0	1.5 4.0 3.0	-000.1851151
3.5	1.5	5.0 1.5 3.0	3.5 1.5 2.0	1.5 4.0 5.0	-000.3161076
3.5	1.5	5.0 1.5 3.0	3.5 1.5 2.0	1.5 4.0 7.0	001.5445240
3.5	1.5	5.0 1.5 3.0	3.5 1.5 3.0	1.5 3.0 2.0	-000.4232799
3.5	1.5	5.0 1.5 3.0	3.5 1.5 3.0	1.5 3.0 4.0	000.0848303
3.5	1.5	5.0 1.5 3.0	3.5 1.5 3.0	1.5 3.0 6.0	000.8839457
3.5	1.5	5.0 1.5 3.0	3.5 1.5 3.0	1.5 5.0 2.0	000.0946472
3.5	1.5	5.0 1.5 3.0	3.5 1.5 3.0	1.5 5.0 4.0	000.3793753
3.5	1.5	5.0 1.5 3.0	3.5 1.5 3.0	1.5 5.0 6.0	000.6917966
3.5	1.5	5.0 1.5 3.0	3.5 1.5 4.0	1.5 2.0 1.0	000.6349202
3.5	1.5	5.0 1.5 3.0	3.5 1.5 4.0	1.5 2.0 3.0	000.6787580
3.5	1.5	5.0 1.5 3.0	3.5 1.5 4.0	1.5 2.0 5.0	000.4280632
3.5	1.5	5.0 1.5 3.0	3.5 1.5 4.0	1.5 4.0 1.0	000.6309887
3.5	1.5	5.0 1.5 3.0	3.5 1.5 4.0	1.5 4.0 3.0	000.6208983
3.5	1.5	5.0 1.5 3.0	3.5 1.5 4.0	1.5 4.0 5.0	000.2550637
3.5	1.5	5.0 1.5 3.0	3.5 1.5 4.0	1.5 4.0 7.0	-000.2558265
3.5	1.5	5.0 1.5 3.0	3.5 1.5 5.0	1.5 3.0 2.0	000.0000000
3.5	1.5	5.0 1.5 3.0	3.5 1.5 5.0	1.5 3.0 4.0	-000.0000000
3.5	1.5	5.0 1.5 3.0	3.5 1.5 5.0	1.5 3.0 6.0	000.0000000
3.5	1.5	5.0 1.5 3.0	3.5 1.5 5.0	1.5 5.0 2.0	000.0000000
3.5	1.5	5.0 1.5 3.0	3.5 1.5 5.0	1.5 5.0 4.0	-000.0000000
3.5	1.5	5.0 1.5 3.0	3.5 1.5 5.0	1.5 5.0 6.0	000.0000000
3.5	1.5	5.0 1.5 3.0	4.5 0.5 4.0	1.5 4.0 1.0	-000.3662317
3.5	1.5	5.0 1.5 3.0	4.5 0.5 4.0	1.5 4.0 3.0	-000.2620911
3.5	1.5	5.0 1.5 3.0	4.5 0.5 4.0	1.5 4.0 5.0	000.1398590
3.5	1.5	5.0 1.5 3.0	4.5 0.5 4.0	1.5 4.0 7.0	000.6170773

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	5.0 1.5 3.0 4.5 0.5	4.0	1.5 6.0 3.0	000.1029585
3.5	1.5	5.0 1.5 3.0 4.5 0.5	4.0	1.5 6.0 5.0	000.3076771
3.5	1.5	5.0 1.5 3.0 4.5 0.5	4.0	1.5 6.0 7.0	000.4908822
3.5	1.5	5.0 1.5 3.0 4.5 0.5	5.0	1.5 3.0 2.0	000.0777576
3.5	1.5	5.0 1.5 3.0 4.5 0.5	5.0	1.5 3.0 4.0	000.0779181
3.5	1.5	5.0 1.5 3.0 4.5 0.5	5.0	1.5 3.0 6.0	000.0463952
3.5	1.5	5.0 1.5 3.0 4.5 0.5	5.0	1.5 5.0 2.0	000.0799751
3.5	1.5	5.0 1.5 3.0 4.5 0.5	5.0	1.5 5.0 4.0	000.0720492
3.5	1.5	5.0 1.5 3.0 4.5 0.5	5.0	1.5 5.0 6.0	000.0262450
3.5	1.5	5.0 1.5 3.0 4.5 0.5	5.0	1.5 5.0 8.0	-000.0318551
3.5	1.5	5.0 1.5 3.0 4.5 1.5	3.0	1.5 3.0 2.0	-000.0793647
3.5	1.5	5.0 1.5 3.0 4.5 1.5	3.0	1.5 3.0 4.0	-000.3181153
3.5	1.5	5.0 1.5 3.0 4.5 1.5	3.0	1.5 3.0 6.0	-000.5800895
3.5	1.5	5.0 1.5 3.0 4.5 1.5	3.0	1.5 5.0 2.0	-000.0816274
3.5	1.5	5.0 1.5 3.0 4.5 1.5	3.0	1.5 5.0 4.0	-000.2941548
3.5	1.5	5.0 1.5 3.0 4.5 1.5	3.0	1.5 5.0 6.0	-000.3281481
3.5	1.5	5.0 1.5 3.0 4.5 1.5	3.0	1.5 5.0 8.0	001.8207728
3.5	1.5	5.0 1.5 3.0 4.5 1.5	4.0	1.5 4.0 1.0	-000.5245081
3.5	1.5	5.0 1.5 3.0 4.5 1.5	4.0	1.5 4.0 3.0	-000.3753610
3.5	1.5	5.0 1.5 3.0 4.5 1.5	4.0	1.5 4.0 5.0	000.2003051
3.5	1.5	5.0 1.5 3.0 4.5 1.5	4.0	1.5 4.0 7.0	000.8837633
3.5	1.5	5.0 1.5 3.0 4.5 1.5	4.0	1.5 6.0 3.0	000.1474550
3.5	1.5	5.0 1.5 3.0 4.5 1.5	4.0	1.5 6.0 5.0	000.4406460
3.5	1.5	5.0 1.5 3.0 4.5 1.5	4.0	1.5 6.0 7.0	000.7030296
3.5	1.5	5.0 1.5 3.0 4.5 1.5	5.0	1.5 3.0 2.0	000.0476166
3.5	1.5	5.0 1.5 3.0 4.5 1.5	5.0	1.5 3.0 4.0	000.0477149
3.5	1.5	5.0 1.5 3.0 4.5 1.5	5.0	1.5 3.0 6.0	000.0284110
3.5	1.5	5.0 1.5 3.0 4.5 1.5	5.0	1.5 5.0 2.0	000.0489747

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	5.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	4.0	000.0441208
3.5	1.5	5.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	6.0	000.0160715
3.5	1.5	5.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	8.0	-000.0195071
3.5	1.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	1.0	-000.3452319
3.5	1.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	3.0	-000.0373644
3.5	1.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	5.0	000.0065102
3.5	1.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	7.0	000.0103873
3.5	1.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	3.0	000.0146779
3.5	1.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	5.0	000.0143228
3.5	1.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	7.0	000.0082631
3.5	1.5	5.0	1.5	5.0	0.5	0.5	1.0	1.5	1.0	4.0	000.1912583
3.5	1.5	5.0	1.5	5.0	0.5	1.5	1.0	1.5	1.0	4.0	000.8790606
3.5	1.5	5.0	1.5	5.0	0.5	1.5	2.0	1.5	2.0	3.0	000.8908709
3.5	1.5	5.0	1.5	5.0	1.5	0.5	1.0	1.5	1.0	4.0	000.1693476
3.5	1.5	5.0	1.5	5.0	1.5	0.5	1.0	1.5	3.0	4.0	-000.1451549
3.5	1.5	5.0	1.5	5.0	1.5	0.5	2.0	1.5	0.0	5.0	-000.2397154
3.5	1.5	5.0	1.5	5.0	1.5	0.5	2.0	1.5	2.0	3.0	000.3959427
3.5	1.5	5.0	1.5	5.0	1.5	0.5	2.0	1.5	2.0	5.0	000.1598102
3.5	1.5	5.0	1.5	5.0	1.5	1.5	0.0	1.5	0.0	5.0	001.0787196
3.5	1.5	5.0	1.5	5.0	1.5	1.5	0.0	1.5	2.0	5.0	-000.7191462
3.5	1.5	5.0	1.5	5.0	1.5	1.5	1.0	1.5	1.0	4.0	000.6058758
3.5	1.5	5.0	1.5	5.0	1.5	1.5	1.0	1.5	3.0	4.0	-000.5193216
3.5	1.5	5.0	1.5	5.0	1.5	1.5	2.0	1.5	0.0	5.0	-000.4794309
3.5	1.5	5.0	1.5	5.0	1.5	1.5	2.0	1.5	2.0	3.0	000.7918852
3.5	1.5	5.0	1.5	5.0	1.5	1.5	2.0	1.5	2.0	5.0	000.3196208
3.5	1.5	5.0	1.5	5.0	1.5	1.5	3.0	1.5	1.0	4.0	-000.1947455
3.5	1.5	5.0	1.5	5.0	1.5	1.5	3.0	1.5	3.0	2.0	001.4197254
3.5	1.5	5.0	1.5	5.0	1.5	1.5	3.0	1.5	3.0	4.0	000.1669243

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	5.0	1.5	5.0	2.5	0.5	2.0	1.5	2.0	3.0	000.1058200
3.5	1.5	5.0	1.5	5.0	2.5	0.5	2.0	1.5	2.0	5.0	000.2989776
3.5	1.5	5.0	1.5	5.0	2.5	0.5	2.0	1.5	4.0	3.0	-000.2592053
3.5	1.5	5.0	1.5	5.0	2.5	0.5	2.0	1.5	4.0	5.0	-000.1830857
3.5	1.5	5.0	1.5	5.0	2.5	0.5	3.0	1.5	1.0	4.0	-000.1454545
3.5	1.5	5.0	1.5	5.0	2.5	0.5	3.0	1.5	1.0	6.0	-000.3247824
3.5	1.5	5.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	2.0	000.5291005
3.5	1.5	5.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	4.0	000.4580863
3.5	1.5	5.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	6.0	000.1546900
3.5	1.5	5.0	1.5	5.0	2.5	1.5	1.0	1.5	1.0	4.0	000.1084381
3.5	1.5	5.0	1.5	5.0	2.5	1.5	1.0	1.5	1.0	6.0	001.6010167
3.5	1.5	5.0	1.5	5.0	2.5	1.5	1.0	1.5	3.0	4.0	-000.3415082
3.5	1.5	5.0	1.5	5.0	2.5	1.5	1.0	1.5	3.0	6.0	-000.7625466
3.5	1.5	5.0	1.5	5.0	2.5	1.5	2.0	1.5	2.0	3.0	000.2403931
3.5	1.5	5.0	1.5	5.0	2.5	1.5	2.0	1.5	2.0	5.0	000.6791939
3.5	1.5	5.0	1.5	5.0	2.5	1.5	2.0	1.5	4.0	3.0	-000.5888420
3.5	1.5	5.0	1.5	5.0	2.5	1.5	2.0	1.5	4.0	5.0	-000.4159190
3.5	1.5	5.0	1.5	5.0	2.5	1.5	3.0	1.5	1.0	4.0	-000.1788849
3.5	1.5	5.0	1.5	5.0	2.5	1.5	3.0	1.5	1.0	6.0	-000.3994296
3.5	1.5	5.0	1.5	5.0	2.5	1.5	3.0	1.5	3.0	2.0	000.6507073
3.5	1.5	5.0	1.5	5.0	2.5	1.5	3.0	1.5	3.0	4.0	000.5633708
3.5	1.5	5.0	1.5	5.0	2.5	1.5	3.0	1.5	3.0	6.0	000.1902436
3.5	1.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	2.0	3.0	-000.1039132
3.5	1.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	2.0	5.0	-000.0733974
3.5	1.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	4.0	1.0	001.6666670
3.5	1.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	4.0	3.0	000.2545341
3.5	1.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	4.0	5.0	000.0449464
3.5	1.5	5.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	2.0	000.0546445

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	4.0	000.2190322
3.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	6.0	000.3994087
3.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	2.0	-000.0311031
3.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	4.0	-000.0311672
3.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	6.0	-000.0185580
3.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	2.0	3.0	-000.0816287
3.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	2.0	5.0	-000.2439327
3.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	2.0	7.0	-000.3891830
3.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	1.0	000.5843041
3.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	3.0	000.6570972
3.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	5.0	000.4909076
3.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	7.0	000.1547096
3.5	1.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	2.0	3.0	000.0205680
3.5	1.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	2.0	5.0	000.2458621
3.5	1.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	2.0	7.0	001.9858164
3.5	1.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	4.0	3.0	-000.1655717
3.5	1.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	4.0	5.0	-000.4947881
3.5	1.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	4.0	7.0	-000.7894068
3.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	2.0	000.0946472
3.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	4.0	000.3793753
3.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	6.0	000.6917966
3.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	5.0	2.0	-000.0538720
3.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	5.0	4.0	-000.0539832
3.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	5.0	6.0	-000.0321434
3.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	3.0	-000.0689892
3.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	5.0	-000.2061611
3.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	7.0	-000.3289197
3.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	1.0	000.4938278

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	3.0	000.5553480
3.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	5.0	000.4148916
3.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	7.0	000.1307521
3.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	2.0	000.0000000
3.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	4.0	-000.0000000
3.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	6.0	000.0000000
3.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	2.0	000.0000000
3.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	4.0	-000.0000000
3.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	6.0	000.0000000
3.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	1.0	000.0148878
3.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	3.0	000.1172095
3.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	5.0	000.3127356
3.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	7.0	000.4829395
3.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	1.0	-000.0620679
3.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	3.0	-000.0738937
3.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	5.0	-000.0643790
3.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	7.0	-000.0359496
3.5	1.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	2.0	-000.0031612
3.5	1.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	4.0	-000.0134022
3.5	1.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	6.0	-000.0290480
3.5	1.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	8.0	-000.0402941
3.5	1.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	2.0	000.0056900
3.5	1.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	4.0	000.0060307
3.5	1.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	6.0	000.0042681
3.5	1.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	8.0	000.0012951
3.5	1.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	2.0	000.0032254
3.5	1.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	4.0	000.0547180
3.5	1.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	6.0	000.3631936

J_1 , S''	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
3.5	1.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	8.0	002.3031181
3.5	1.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	2.0	-000.0058075
3.5	1.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	4.0	-000.0246216
3.5	1.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	6.0	-000.0533644
3.5	1.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	8.0	-000.0740248
3.5	1.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	1.0	000.0213238
3.5	1.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	3.0	000.1678660
3.5	1.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	5.0	000.4478950
3.5	1.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	7.0	000.6916536
3.5	1.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	1.0	-000.0888927
3.5	1.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	3.0	-000.1058289
3.5	1.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	5.0	-000.0922017
3.5	1.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	7.0	-000.0514863
3.5	1.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	2.0	-000.0019358
3.5	1.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	4.0	-000.0082072
3.5	1.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	6.0	-000.0177880
3.5	1.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	8.0	-000.0246749
3.5	1.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	2.0	000.0034844
3.5	1.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	4.0	000.0036931
3.5	1.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	6.0	000.0026136
3.5	1.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	8.0	000.0007931
3.5	1.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	1.0	000.0140357
3.5	1.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	3.0	000.0167099
3.5	1.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	5.0	000.0145582
3.5	1.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	7.0	000.0081292
3.5	1.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	1.0	-000.0585091
3.5	1.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	3.0	-000.0105344
3.5	1.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	5.0	-000.0029969

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
3.5	1.5	5.0 1.5 5.0	4.5 1.5 6.0	1.5 6.0 7.0	-000.0006051
4.5	0.5	4.0 0.5 4.0	0.5 0.5 0.0	0.5 0.0 4.0	000.4057204
4.5	0.5	4.0 0.5 4.0	0.5 0.5 1.0	0.5 1.0 5.0	000.4494665
4.5	0.5	4.0 0.5 4.0	0.5 1.5 1.0	0.5 1.0 5.0	000.6356416
4.5	0.5	4.0 0.5 4.0	0.5 1.5 2.0	0.5 0.0 4.0	000.5737753
4.5	0.5	4.0 0.5 4.0	1.5 0.5 1.0	0.5 1.0 3.0	000.5939138
4.5	0.5	4.0 0.5 4.0	1.5 0.5 1.0	0.5 1.0 5.0	000.1498221
4.5	0.5	4.0 0.5 4.0	1.5 0.5 2.0	0.5 2.0 4.0	000.2581855
4.5	0.5	4.0 0.5 4.0	1.5 0.5 2.0	0.5 2.0 6.0	000.6670901
4.5	0.5	4.0 0.5 4.0	1.5 1.5 0.0	0.5 2.0 4.0	-000.8114407
4.5	0.5	4.0 0.5 4.0	1.5 1.5 1.0	0.5 1.0 3.0	-001.0624254
4.5	0.5	4.0 0.5 4.0	1.5 1.5 1.0	0.5 1.0 5.0	000.9380352
4.5	0.5	4.0 0.5 4.0	1.5 1.5 2.0	0.5 2.0 4.0	-000.2950694
4.5	0.5	4.0 0.5 4.0	1.5 1.5 2.0	0.5 2.0 6.0	001.3341805
4.5	0.5	4.0 0.5 4.0	1.5 1.5 3.0	0.5 1.0 3.0	000.5312127
4.5	0.5	4.0 0.5 4.0	1.5 1.5 3.0	0.5 1.0 5.0	000.5360202
4.5	0.5	4.0 0.5 4.0	2.5 0.5 2.0	0.5 2.0 2.0	000.7098629
4.5	0.5	4.0 0.5 4.0	2.5 0.5 2.0	0.5 2.0 4.0	000.1896874
4.5	0.5	4.0 0.5 4.0	2.5 0.5 2.0	0.5 2.0 6.0	000.0741209
4.5	0.5	4.0 0.5 4.0	2.5 0.5 3.0	0.5 3.0 3.0	000.2159688
4.5	0.5	4.0 0.5 4.0	2.5 0.5 3.0	0.5 3.0 5.0	000.3687927
4.5	0.5	4.0 0.5 4.0	2.5 0.5 3.0	0.5 3.0 7.0	000.8274239
4.5	0.5	4.0 0.5 4.0	2.5 1.5 1.0	0.5 3.0 3.0	-000.6506001
4.5	0.5	4.0 0.5 4.0	2.5 1.5 1.0	0.5 3.0 5.0	-000.6564872
4.5	0.5	4.0 0.5 4.0	2.5 1.5 2.0	0.5 2.0 2.0	-001.5177505
4.5	0.5	4.0 0.5 4.0	2.5 1.5 2.0	0.5 2.0 4.0	000.6590495
4.5	0.5	4.0 0.5 4.0	2.5 1.5 2.0	0.5 2.0 6.0	000.9112464
4.5	0.5	4.0 0.5 4.0	2.5 1.5 3.0	0.5 3.0 3.0	-000.3138979

J_1 , S"	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
4.5	0.5	4.0 0.5	4.0 2.5	1.5 3.0 0.5	3.0 5.0 000.0206163
4.5	0.5	4.0 0.5	4.0 2.5	1.5 3.0 0.5	3.0 7.0 001.8501755
4.5	0.5	4.0 0.5	4.0 2.5	1.5 4.0 0.5	2.0 2.0 000.4647137
4.5	0.5	4.0 0.5	4.0 2.5	1.5 4.0 0.5	2.0 4.0 000.5588079
4.5	0.5	4.0 0.5	4.0 2.5	1.5 4.0 0.5	2.0 6.0 000.4852371
4.5	0.5	4.0 0.5	4.0 3.5	0.5 3.0 0.5	3.0 1.0 000.7407409
4.5	0.5	4.0 0.5	4.0 3.5	0.5 3.0 0.5	3.0 3.0 000.1619765
4.5	0.5	4.0 0.5	4.0 3.5	0.5 3.0 0.5	3.0 5.0 000.0691488
4.5	0.5	4.0 0.5	4.0 3.5	0.5 3.0 0.5	3.0 7.0 000.0306452
4.5	0.5	4.0 0.5	4.0 3.5	0.5 4.0 0.5	4.0 2.0 000.1935991
4.5	0.5	4.0 0.5	4.0 3.5	0.5 4.0 0.5	4.0 4.0 000.2954750
4.5	0.5	4.0 0.5	4.0 3.5	0.5 4.0 0.5	4.0 6.0 000.4447263
4.5	0.5	4.0 0.5	4.0 3.5	0.5 4.0 0.5	4.0 8.0 000.9596323
4.5	0.5	4.0 0.5	4.0 3.5	1.5 2.0 0.5	4.0 2.0 -000.5366056
4.5	0.5	4.0 0.5	4.0 3.5	1.5 2.0 0.5	4.0 4.0 -000.6452560
4.5	0.5	4.0 0.5	4.0 3.5	1.5 2.0 0.5	4.0 6.0 -000.5603021
4.5	0.5	4.0 0.5	4.0 3.5	1.5 3.0 0.5	3.0 1.0 -001.7106670
4.5	0.5	4.0 0.5	4.0 3.5	1.5 3.0 0.5	3.0 3.0 000.5611032
4.5	0.5	4.0 0.5	4.0 3.5	1.5 3.0 0.5	3.0 5.0 000.9581525
4.5	0.5	4.0 0.5	4.0 3.5	1.5 3.0 0.5	3.0 7.0 000.8846537
4.5	0.5	4.0 0.5	4.0 3.5	1.5 4.0 0.5	4.0 2.0 -000.2617928
4.5	0.5	4.0 0.5	4.0 3.5	1.5 4.0 0.5	4.0 4.0 -000.1664806
4.5	0.5	4.0 0.5	4.0 3.5	1.5 4.0 0.5	4.0 6.0 000.3006889
4.5	0.5	4.0 0.5	4.0 3.5	1.5 4.0 0.5	4.0 8.0 002.2709034
4.5	0.5	4.0 0.5	4.0 3.5	1.5 5.0 0.5	3.0 1.0 000.3825166
4.5	0.5	4.0 0.5	4.0 3.5	1.5 5.0 0.5	3.0 3.0 000.5018645
4.5	0.5	4.0 0.5	4.0 3.5	1.5 5.0 0.5	3.0 5.0 000.5356226
4.5	0.5	4.0 0.5	4.0 3.5	1.5 5.0 0.5	3.0 7.0 000.4431046

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	0.5	4.0 0.5	4.0 0.5	4.0 2.0	-000.0000000
4.5	0.5	4.0 0.5	4.0 0.5	4.0 4.0	000.0000000
4.5	0.5	4.0 0.5	4.0 0.5	4.0 6.0	-000.0000000
4.5	0.5	4.0 0.5	4.0 0.5	4.0 8.0	000.0000000
4.5	0.5	4.0 0.5	4.0 0.5	5.0 1.0	000.1683495
4.5	0.5	4.0 0.5	5.0 0.5	5.0 3.0	000.2491949
4.5	0.5	4.0 0.5	5.0 0.5	5.0 5.0	000.3457436
4.5	0.5	4.0 0.5	5.0 0.5	5.0 7.0	000.5047456
4.5	0.5	4.0 0.5	5.0 0.5	5.0 9.0	001.0745599
4.5	0.5	4.0 1.5	3.0 0.5	5.0 1.0	-000.4276654
4.5	0.5	4.0 1.5	3.0 0.5	5.0 3.0	-000.5611024
4.5	0.5	4.0 1.5	3.0 0.5	5.0 5.0	-000.5988437
4.5	0.5	4.0 1.5	3.0 0.5	5.0 7.0	-000.4954058
4.5	0.5	4.0 1.5	4.0 0.5	4.0 2.0	000.8172113
4.5	0.5	4.0 1.5	4.0 0.5	4.0 4.0	001.0393720
4.5	0.5	4.0 1.5	4.0 0.5	4.0 6.0	001.0727202
4.5	0.5	4.0 1.5	4.0 0.5	4.0 8.0	000.8680193
4.5	0.5	4.0 1.5	5.0 0.5	5.0 1.0	-000.1924398
4.5	0.5	4.0 1.5	5.0 0.5	5.0 3.0	-000.1831209
4.5	0.5	4.0 1.5	5.0 0.5	5.0 5.0	000.0000000
4.5	0.5	4.0 1.5	5.0 0.5	5.0 7.0	000.5357597
4.5	0.5	4.0 1.5	5.0 0.5	5.0 9.0	002.6321259
4.5	0.5	4.0 1.5	6.0 0.5	4.0 2.0	000.0290853
4.5	0.5	4.0 1.5	6.0 0.5	4.0 4.0	000.0369921
4.5	0.5	4.0 1.5	6.0 0.5	4.0 6.0	000.0381791
4.5	0.5	4.0 1.5	6.0 0.5	4.0 8.0	000.0308935
4.5	0.5	4.0 0.5	0.0 1.5	2.0 4.0	-000.1729997
4.5	0.5	4.0 0.5	1.0 1.5	1.0 5.0	-000.1916531

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	0.5	4.0 1.5	4.0 0.5 1.5	1.0 1.5 1.0 5.0	-000.2710385
4.5	0.5	4.0 1.5	4.0 0.5 1.5	2.0 1.5 2.0 4.0	-000.2446584
4.5	0.5	4.0 1.5	4.0 1.5 0.5	1.0 1.5 1.0 3.0	000.4404583
4.5	0.5	4.0 1.5	4.0 1.5 0.5	1.0 1.5 1.0 5.0	-000.1616162
4.5	0.5	4.0 1.5	4.0 1.5 0.5	1.0 1.5 3.0 3.0	-000.1201249
4.5	0.5	4.0 1.5	4.0 1.5 0.5	1.0 1.5 3.0 5.0	-000.1212121
4.5	0.5	4.0 1.5	4.0 1.5 0.5	2.0 1.5 0.0 4.0	000.4281526
4.5	0.5	4.0 1.5	4.0 1.5 0.5	2.0 1.5 2.0 4.0	000.2724606
4.5	0.5	4.0 1.5	4.0 1.5 0.5	2.0 1.5 2.0 6.0	-000.4022705
4.5	0.5	4.0 1.5	4.0 1.5 1.5	0.0 1.5 0.0 4.0	-001.3456223
4.5	0.5	4.0 1.5	4.0 1.5 1.5	0.0 1.5 2.0 4.0	-000.8563049
4.5	0.5	4.0 1.5	4.0 1.5 1.5	1.0 1.5 1.0 3.0	-000.7879156
4.5	0.5	4.0 1.5	4.0 1.5 1.5	1.0 1.5 1.0 5.0	-001.0118771
4.5	0.5	4.0 1.5	4.0 1.5 1.5	1.0 1.5 3.0 3.0	000.2148862
4.5	0.5	4.0 1.5	4.0 1.5 1.5	1.0 1.5 3.0 5.0	-000.7589079
4.5	0.5	4.0 1.5	4.0 1.5 1.5	2.0 1.5 0.0 4.0	-000.4893173
4.5	0.5	4.0 1.5	4.0 1.5 1.5	2.0 1.5 2.0 4.0	-000.3113835
4.5	0.5	4.0 1.5	4.0 1.5 1.5	2.0 1.5 2.0 6.0	-000.8045411
4.5	0.5	4.0 1.5	4.0 1.5 1.5	3.0 1.5 1.0 3.0	000.3939579
4.5	0.5	4.0 1.5	4.0 1.5 1.5	3.0 1.5 1.0 5.0	-000.5782156
4.5	0.5	4.0 1.5	4.0 1.5 1.5	3.0 1.5 3.0 3.0	-000.1074427
4.5	0.5	4.0 1.5	4.0 1.5 1.5	3.0 1.5 3.0 5.0	-000.4336618
4.5	0.5	4.0 1.5	4.0 2.5 0.5	2.0 1.5 2.0 2.0	000.6292258
4.5	0.5	4.0 1.5	4.0 2.5 0.5	2.0 1.5 2.0 4.0	000.0076426
4.5	0.5	4.0 1.5	4.0 2.5 0.5	2.0 1.5 2.0 6.0	-000.0955654
4.5	0.5	4.0 1.5	4.0 2.5 0.5	2.0 1.5 4.0 2.0	-000.0700578
4.5	0.5	4.0 1.5	4.0 2.5 0.5	2.0 1.5 4.0 4.0	-000.0842432
4.5	0.5	4.0 1.5	4.0 2.5 0.5	2.0 1.5 4.0 6.0	-000.0731521

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.5	0.5	4.0 1.5	4.0 2.5	0.5 3.0	1.5 1.0	3.0	000.3923266
4.5	0.5	4.0 1.5	4.0 2.5	0.5 3.0	1.5 1.0	5.0	000.3958771
4.5	0.5	4.0 1.5	4.0 2.5	0.5 3.0	1.5 3.0	3.0	000.3348936
4.5	0.5	4.0 1.5	4.0 2.5	0.5 3.0	1.5 3.0	5.0	000.2362084
4.5	0.5	4.0 1.5	4.0 2.5	0.5 3.0	1.5 3.0	7.0	-000.5578486
4.5	0.5	4.0 1.5	4.0 2.5	1.5 1.0	1.5 1.0	3.0	-001.1818734
4.5	0.5	4.0 1.5	4.0 2.5	1.5 1.0	1.5 1.0	5.0	-000.7046999
4.5	0.5	4.0 1.5	4.0 2.5	1.5 1.0	1.5 3.0	3.0	-001.0088591
4.5	0.5	4.0 1.5	4.0 2.5	1.5 1.0	1.5 3.0	5.0	-000.4204734
4.5	0.5	4.0 1.5	4.0 2.5	1.5 2.0	1.5 2.0	2.0	-001.3453416
4.5	0.5	4.0 1.5	4.0 2.5	1.5 2.0	1.5 2.0	4.0	000.0265538
4.5	0.5	4.0 1.5	4.0 2.5	1.5 2.0	1.5 2.0	6.0	-001.1748855
4.5	0.5	4.0 1.5	4.0 2.5	1.5 2.0	1.5 4.0	2.0	000.1497902
4.5	0.5	4.0 1.5	4.0 2.5	1.5 2.0	1.5 4.0	4.0	-000.2926953
4.5	0.5	4.0 1.5	4.0 2.5	1.5 2.0	1.5 4.0	6.0	-000.8993336
4.5	0.5	4.0 1.5	4.0 2.5	1.5 3.0	1.5 1.0	3.0	-000.5702248
4.5	0.5	4.0 1.5	4.0 2.5	1.5 3.0	1.5 1.0	5.0	000.0221301
4.5	0.5	4.0 1.5	4.0 2.5	1.5 3.0	1.5 3.0	3.0	-000.4867499
4.5	0.5	4.0 1.5	4.0 2.5	1.5 3.0	1.5 3.0	5.0	000.0132039
4.5	0.5	4.0 1.5	4.0 2.5	1.5 3.0	1.5 3.0	7.0	-001.2473881
4.5	0.5	4.0 1.5	4.0 2.5	1.5 4.0	1.5 2.0	2.0	000.4119244
4.5	0.5	4.0 1.5	4.0 2.5	1.5 4.0	1.5 2.0	4.0	000.0225151
4.5	0.5	4.0 1.5	4.0 2.5	1.5 4.0	1.5 2.0	6.0	-000.6256237
4.5	0.5	4.0 1.5	4.0 2.5	1.5 4.0	1.5 4.0	2.0	-000.0458640
4.5	0.5	4.0 1.5	4.0 2.5	1.5 4.0	1.5 4.0	4.0	-000.2481758
4.5	0.5	4.0 1.5	4.0 2.5	1.5 4.0	1.5 4.0	6.0	-000.4788927
4.5	0.5	4.0 1.5	4.0 3.5	0.5 3.0	1.5 3.0	1.0	000.7092046
4.5	0.5	4.0 1.5	4.0 3.5	0.5 3.0	1.5 3.0	3.0	000.0845893

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	0.5	4.0 1.5 4.0 3.5	0.5 3.0 1.5 3.0	5.0	-000.0180553
4.5	0.5	4.0 1.5 4.0 3.5	0.5 3.0 1.5 3.0	7.0	-000.0426767
4.5	0.5	4.0 1.5 4.0 3.5	0.5 3.0 1.5 5.0	1.0	-000.0288327
4.5	0.5	4.0 1.5 4.0 3.5	0.5 3.0 1.5 5.0	3.0	-000.0378295
4.5	0.5	4.0 1.5 4.0 3.5	0.5 3.0 1.5 5.0	5.0	-000.0403744
4.5	0.5	4.0 1.5 4.0 3.5	0.5 3.0 1.5 5.0	7.0	-000.0333993
4.5	0.5	4.0 1.5 4.0 3.5	0.5 4.0 1.5 2.0	2.0	000.3640339
4.5	0.5	4.0 1.5 4.0 3.5	0.5 4.0 1.5 2.0	4.0	000.4377422
4.5	0.5	4.0 1.5 4.0 3.5	0.5 4.0 1.5 2.0	6.0	000.3801098
4.5	0.5	4.0 1.5 4.0 3.5	0.5 4.0 1.5 4.0	2.0	000.3502686
4.5	0.5	4.0 1.5 4.0 3.5	0.5 4.0 1.5 4.0	4.0	000.3764699
4.5	0.5	4.0 1.5 4.0 3.5	0.5 4.0 1.5 4.0	6.0	000.1926556
4.5	0.5	4.0 1.5 4.0 3.5	0.5 4.0 1.5 4.0	8.0	-000.6847027
4.5	0.5	4.0 1.5 4.0 3.5	1.5 2.0 1.5 2.0	2.0	-001.0090065
4.5	0.5	4.0 1.5 4.0 3.5	1.5 2.0 1.5 2.0	4.0	-000.9559382
4.5	0.5	4.0 1.5 4.0 3.5	1.5 2.0 1.5 2.0	6.0	-000.4788937
4.5	0.5	4.0 1.5 4.0 3.5	1.5 2.0 1.5 4.0	2.0	-000.9708518
4.5	0.5	4.0 1.5 4.0 3.5	1.5 2.0 1.5 4.0	4.0	-000.8221323
4.5	0.5	4.0 1.5 4.0 3.5	1.5 2.0 1.5 4.0	6.0	-000.2427225
4.5	0.5	4.0 1.5 4.0 3.5	1.5 3.0 1.5 3.0	1.0	-001.6378396
4.5	0.5	4.0 1.5 4.0 3.5	1.5 3.0 1.5 3.0	3.0	000.2930257
4.5	0.5	4.0 1.5 4.0 3.5	1.5 3.0 1.5 3.0	5.0	-000.2501886
4.5	0.5	4.0 1.5 4.0 3.5	1.5 3.0 1.5 3.0	7.0	-001.2319877
4.5	0.5	4.0 1.5 4.0 3.5	1.5 3.0 1.5 5.0	1.0	000.0665869
4.5	0.5	4.0 1.5 4.0 3.5	1.5 3.0 1.5 5.0	3.0	-000.1310456
4.5	0.5	4.0 1.5 4.0 3.5	1.5 3.0 1.5 5.0	5.0	-000.5594396
4.5	0.5	4.0 1.5 4.0 3.5	1.5 3.0 1.5 5.0	7.0	-000.9641828
4.5	0.5	4.0 1.5 4.0 3.5	1.5 4.0 1.5 2.0	2.0	-000.4922633

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	0.5	4.0 1.5	4.0 3.5	1.5 4.0 1.5 2.0 4.0	-000.2466391
4.5	0.5	4.0 1.5	4.0 3.5	1.5 4.0 1.5 2.0 6.0	000.2570010
4.5	0.5	4.0 1.5	4.0 3.5	1.5 4.0 1.5 4.0 2.0	-000.4736485
4.5	0.5	4.0 1.5	4.0 3.5	1.5 4.0 1.5 4.0 4.0	-000.2121160
4.5	0.5	4.0 1.5	4.0 3.5	1.5 4.0 1.5 4.0 6.0	000.1302586
4.5	0.5	4.0 1.5	4.0 3.5	1.5 4.0 1.5 4.0 8.0	-001.6203034
4.5	0.5	4.0 1.5	4.0 3.5	1.5 5.0 1.5 3.0 1.0	000.3662317
4.5	0.5	4.0 1.5	4.0 3.5	1.5 5.0 1.5 3.0 3.0	000.2620911
4.5	0.5	4.0 1.5	4.0 3.5	1.5 5.0 1.5 3.0 5.0	-000.1398590
4.5	0.5	4.0 1.5	4.0 3.5	1.5 5.0 1.5 3.0 7.0	-000.6170773
4.5	0.5	4.0 1.5	4.0 3.5	1.5 5.0 1.5 5.0 1.0	-000.0148878
4.5	0.5	4.0 1.5	4.0 3.5	1.5 5.0 1.5 5.0 3.0	-000.1172095
4.5	0.5	4.0 1.5	4.0 3.5	1.5 5.0 1.5 5.0 5.0	-000.3127356
4.5	0.5	4.0 1.5	4.0 3.5	1.5 5.0 1.5 5.0 7.0	-000.4829395
4.5	0.5	4.0 1.5	4.0 4.5	0.5 4.0 1.5 4.0 2.0	000.0000000
4.5	0.5	4.0 1.5	4.0 4.5	0.5 4.0 1.5 4.0 4.0	000.0000000
4.5	0.5	4.0 1.5	4.0 4.5	0.5 4.0 1.5 4.0 6.0	000.0000000
4.5	0.5	4.0 1.5	4.0 4.5	0.5 4.0 1.5 4.0 8.0	000.0000000
4.5	0.5	4.0 1.5	4.0 4.5	0.5 4.0 1.5 6.0 2.0	000.0000000
4.5	0.5	4.0 1.5	4.0 4.5	0.5 4.0 1.5 6.0 4.0	000.0000000
4.5	0.5	4.0 1.5	4.0 4.5	0.5 4.0 1.5 6.0 6.0	000.0000000
4.5	0.5	4.0 1.5	4.0 4.5	0.5 4.0 1.5 6.0 8.0	000.0000000
4.5	0.5	4.0 1.5	4.0 4.5	0.5 5.0 1.5 3.0 1.0	000.3223652
4.5	0.5	4.0 1.5	4.0 4.5	0.5 5.0 1.5 3.0 3.0	000.4229473
4.5	0.5	4.0 1.5	4.0 4.5	0.5 5.0 1.5 3.0 5.0	000.4513972
4.5	0.5	4.0 1.5	4.0 4.5	0.5 5.0 1.5 3.0 7.0	000.3734255
4.5	0.5	4.0 1.5	4.0 4.5	0.5 5.0 1.5 5.0 1.0	000.3315589
4.5	0.5	4.0 1.5	4.0 4.5	0.5 5.0 1.5 5.0 3.0	000.4140952

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	0.5	4.0 1.5 4.0 4.5	0.5 5.0	1.5 5.0 5.0	000.3830211
4.5	0.5	4.0 1.5 4.0 4.5	0.5 5.0	1.5 5.0 7.0	000.1553251
4.5	0.5	4.0 1.5 4.0 4.5	0.5 5.0	1.5 5.0 9.0	-000.7936157
4.5	0.5	4.0 1.5 4.0 4.5	1.5 3.0	1.5 3.0 1.0	-000.8189191
4.5	0.5	4.0 1.5 4.0 4.5	1.5 3.0	1.5 3.0 3.0	-000.9523360
4.5	0.5	4.0 1.5 4.0 4.5	1.5 3.0	1.5 3.0 5.0	-000.7818411
4.5	0.5	4.0 1.5 4.0 4.5	1.5 3.0	1.5 3.0 7.0	-000.3665155
4.5	0.5	4.0 1.5 4.0 4.5	1.5 3.0	1.5 5.0 1.0	-000.8422746
4.5	0.5	4.0 1.5 4.0 4.5	1.5 3.0	1.5 5.0 3.0	-000.9324038
4.5	0.5	4.0 1.5 4.0 4.5	1.5 3.0	1.5 5.0 5.0	-000.6634145
4.5	0.5	4.0 1.5 4.0 4.5	1.5 3.0	1.5 5.0 7.0	-000.1524506
4.5	0.5	4.0 1.5 4.0 4.5	1.5 4.0	1.5 4.0 2.0	000.6500534
4.5	0.5	4.0 1.5 4.0 4.5	1.5 4.0	1.5 4.0 4.0	000.3307096
4.5	0.5	4.0 1.5 4.0 4.5	1.5 4.0	1.5 4.0 6.0	-000.4632203
4.5	0.5	4.0 1.5 4.0 4.5	1.5 4.0	1.5 4.0 8.0	-001.2625730
4.5	0.5	4.0 1.5 4.0 4.5	1.5 4.0	1.5 6.0 2.0	-000.0059493
4.5	0.5	4.0 1.5 4.0 4.5	1.5 4.0	1.5 6.0 4.0	-000.0252218
4.5	0.5	4.0 1.5 4.0 4.5	1.5 4.0	1.5 6.0 6.0	-000.0546655
4.5	0.5	4.0 1.5 4.0 4.5	1.5 4.0	1.5 6.0 8.0	-000.0758298
4.5	0.5	4.0 1.5 4.0 4.5	1.5 5.0	1.5 3.0 1.0	-000.3684936
4.5	0.5	4.0 1.5 4.0 4.5	1.5 5.0	1.5 3.0 3.0	-000.3108005
4.5	0.5	4.0 1.5 4.0 4.5	1.5 5.0	1.5 3.0 5.0	000.0000000
4.5	0.5	4.0 1.5 4.0 4.5	1.5 5.0	1.5 3.0 7.0	000.3963707
4.5	0.5	4.0 1.5 4.0 4.5	1.5 5.0	1.5 5.0 1.0	-000.3790021
4.5	0.5	4.0 1.5 4.0 4.5	1.5 5.0	1.5 5.0 3.0	-000.3042971
4.5	0.5	4.0 1.5 4.0 4.5	1.5 5.0	1.5 5.0 5.0	000.0000000
4.5	0.5	4.0 1.5 4.0 4.5	1.5 5.0	1.5 5.0 7.0	000.1648696
4.5	0.5	4.0 1.5 4.0 4.5	1.5 5.0	1.5 5.0 9.0	-001.9439544

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	0.5	4.0 1.5	4.0	4.5 1.5	6.0 1.5 4.0 2.0 000.0231361
4.5	0.5	4.0 1.5	4.0	4.5 1.5	6.0 1.5 4.0 4.0 000.0117703
4.5	0.5	4.0 1.5	4.0	4.5 1.5	6.0 1.5 4.0 6.0 -000.0164864
4.5	0.5	4.0 1.5	4.0	4.5 1.5	6.0 1.5 4.0 8.0 -000.0449363
4.5	0.5	4.0 1.5	4.0	4.5 1.5	6.0 1.5 6.0 2.0 -000.0002117
4.5	0.5	4.0 1.5	4.0	4.5 1.5	6.0 1.5 6.0 4.0 -000.0008977
4.5	0.5	4.0 1.5	4.0	4.5 1.5	6.0 1.5 6.0 6.0 -000.0019456
4.5	0.5	4.0 1.5	4.0	4.5 1.5	6.0 1.5 6.0 8.0 -000.0026988
4.5	0.5	4.0 1.5	6.0	0.5 0.5	0.0 1.5 2.0 4.0 000.3669878
4.5	0.5	4.0 1.5	6.0	0.5 0.5	1.0 1.5 1.0 5.0 000.4065578
4.5	0.5	4.0 1.5	6.0	0.5 1.5	1.0 1.5 1.0 5.0 000.5749595
4.5	0.5	4.0 1.5	6.0	0.5 1.5	2.0 1.5 2.0 4.0 000.5189992
4.5	0.5	4.0 1.5	6.0	1.5 0.5	1.0 1.5 1.0 5.0 -000.1285647
4.5	0.5	4.0 1.5	6.0	1.5 0.5	1.0 1.5 3.0 3.0 000.5662747
4.5	0.5	4.0 1.5	6.0	1.5 0.5	1.0 1.5 3.0 5.0 000.0999948
4.5	0.5	4.0 1.5	6.0	1.5 0.5	2.0 1.5 0.0 6.0 -000.5214885
4.5	0.5	4.0 1.5	6.0	1.5 0.5	2.0 1.5 2.0 4.0 000.3302722
4.5	0.5	4.0 1.5	6.0	1.5 0.5	2.0 1.5 2.0 6.0 000.3318562
4.5	0.5	4.0 1.5	6.0	1.5 1.5	0.0 1.5 2.0 4.0 -001.0379984
4.5	0.5	4.0 1.5	6.0	1.5 1.5	1.0 1.5 1.0 5.0 -000.8049430
4.5	0.5	4.0 1.5	6.0	1.5 1.5	1.0 1.5 3.0 3.0 -001.0129827
4.5	0.5	4.0 1.5	6.0	1.5 1.5	1.0 1.5 3.0 5.0 000.6260670
4.5	0.5	4.0 1.5	6.0	1.5 1.5	2.0 1.5 0.0 6.0 -001.0429770
4.5	0.5	4.0 1.5	6.0	1.5 1.5	2.0 1.5 2.0 4.0 -000.3774537
4.5	0.5	4.0 1.5	6.0	1.5 1.5	2.0 1.5 2.0 6.0 000.6637125
4.5	0.5	4.0 1.5	6.0	1.5 1.5	3.0 1.5 1.0 5.0 -000.4599677
4.5	0.5	4.0 1.5	6.0	1.5 1.5	3.0 1.5 3.0 3.0 000.5064916
4.5	0.5	4.0 1.5	6.0	1.5 1.5	3.0 1.5 3.0 5.0 000.3577523

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	0.5	4.0	1.5	6.0	2.5	0.5	2.0	1.5	2.0	4.0	-000.0756590
4.5	0.5	4.0	1.5	6.0	2.5	0.5	2.0	1.5	2.0	6.0	-000.0760218
4.5	0.5	4.0	1.5	6.0	2.5	0.5	2.0	1.5	4.0	2.0	000.0523622
4.5	0.5	4.0	1.5	6.0	2.5	0.5	2.0	1.5	4.0	4.0	000.0116601
4.5	0.5	4.0	1.5	6.0	2.5	0.5	2.0	1.5	4.0	6.0	000.0031242
4.5	0.5	4.0	1.5	6.0	2.5	0.5	3.0	1.5	1.0	5.0	-000.1291968
4.5	0.5	4.0	1.5	6.0	2.5	0.5	3.0	1.5	1.0	7.0	-000.7085634
4.5	0.5	4.0	1.5	6.0	2.5	0.5	3.0	1.5	3.0	3.0	000.3088773
4.5	0.5	4.0	1.5	6.0	2.5	0.5	3.0	1.5	3.0	5.0	000.3692119
4.5	0.5	4.0	1.5	6.0	2.5	0.5	3.0	1.5	3.0	7.0	000.3155673
4.5	0.5	4.0	1.5	6.0	2.5	1.5	1.0	1.5	1.0	5.0	000.2299836
4.5	0.5	4.0	1.5	6.0	2.5	1.5	1.0	1.5	3.0	3.0	-000.9304840
4.5	0.5	4.0	1.5	6.0	2.5	1.5	1.0	1.5	3.0	5.0	-000.6572331
4.5	0.5	4.0	1.5	6.0	2.5	1.5	2.0	1.5	2.0	4.0	-000.2628692
4.5	0.5	4.0	1.5	6.0	2.5	1.5	2.0	1.5	2.0	6.0	-000.9346151
4.5	0.5	4.0	1.5	6.0	2.5	1.5	2.0	1.5	4.0	2.0	-000.1119550
4.5	0.5	4.0	1.5	6.0	2.5	1.5	2.0	1.5	4.0	4.0	000.0405116
4.5	0.5	4.0	1.5	6.0	2.5	1.5	2.0	1.5	4.0	6.0	000.0384097
4.5	0.5	4.0	1.5	6.0	2.5	1.5	3.0	1.5	1.0	5.0	-000.0072217
4.5	0.5	4.0	1.5	6.0	2.5	1.5	3.0	1.5	1.0	7.0	-001.5843961
4.5	0.5	4.0	1.5	6.0	2.5	1.5	3.0	1.5	3.0	3.0	-000.4489356
4.5	0.5	4.0	1.5	6.0	2.5	1.5	3.0	1.5	3.0	5.0	000.0206389
4.5	0.5	4.0	1.5	6.0	2.5	1.5	3.0	1.5	3.0	7.0	000.7056293
4.5	0.5	4.0	1.5	6.0	2.5	1.5	4.0	1.5	2.0	4.0	-000.2228864
4.5	0.5	4.0	1.5	6.0	2.5	1.5	4.0	1.5	2.0	6.0	-000.4976808
4.5	0.5	4.0	1.5	6.0	2.5	1.5	4.0	1.5	4.0	2.0	000.0342790
4.5	0.5	4.0	1.5	6.0	2.5	1.5	4.0	1.5	4.0	4.0	000.0343499
4.5	0.5	4.0	1.5	6.0	2.5	1.5	4.0	1.5	4.0	6.0	000.0204531

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	0.5	4.0	1.5	6.0	3.5	0.5	3.0	1.5	3.0	3.0	-000.0332293
4.5	0.5	4.0	1.5	6.0	3.5	0.5	3.0	1.5	3.0	5.0	-000.0397203
4.5	0.5	4.0	1.5	6.0	3.5	0.5	3.0	1.5	3.0	7.0	-000.0339489
4.5	0.5	4.0	1.5	6.0	3.5	0.5	3.0	1.5	5.0	1.0	000.1201943
4.5	0.5	4.0	1.5	6.0	3.5	0.5	3.0	1.5	5.0	3.0	000.0238490
4.5	0.5	4.0	1.5	6.0	3.5	0.5	3.0	1.5	5.0	5.0	000.0083113
4.5	0.5	4.0	1.5	6.0	3.5	0.5	3.0	1.5	5.0	7.0	000.0024862
4.5	0.5	4.0	1.5	6.0	3.5	0.5	4.0	1.5	2.0	4.0	-000.0555568
4.5	0.5	4.0	1.5	6.0	3.5	0.5	4.0	1.5	2.0	6.0	-000.2150224
4.5	0.5	4.0	1.5	6.0	3.5	0.5	4.0	1.5	2.0	8.0	-000.8506229
4.5	0.5	4.0	1.5	6.0	3.5	0.5	4.0	1.5	4.0	2.0	000.0221234
4.5	0.5	4.0	1.5	6.0	3.5	0.5	4.0	1.5	4.0	4.0	000.0281376
4.5	0.5	4.0	1.5	6.0	3.5	0.5	4.0	1.5	4.0	6.0	000.0290405
4.5	0.5	4.0	1.5	6.0	3.5	0.5	4.0	1.5	4.0	8.0	000.0234988
4.5	0.5	4.0	1.5	6.0	3.5	1.5	2.0	1.5	2.0	4.0	000.1213240
4.5	0.5	4.0	1.5	6.0	3.5	1.5	2.0	1.5	2.0	6.0	000.2709023
4.5	0.5	4.0	1.5	6.0	3.5	1.5	2.0	1.5	4.0	2.0	-000.0613203
4.5	0.5	4.0	1.5	6.0	3.5	1.5	2.0	1.5	4.0	4.0	-000.0614469
4.5	0.5	4.0	1.5	6.0	3.5	1.5	2.0	1.5	4.0	6.0	-000.0365876
4.5	0.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	3.0	3.0	-000.1151112
4.5	0.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	3.0	5.0	-000.5503882
4.5	0.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	3.0	7.0	-000.9800405
4.5	0.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	5.0	1.0	-000.2775768
4.5	0.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	5.0	3.0	000.0826157
4.5	0.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	5.0	5.0	000.1151644
4.5	0.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	5.0	7.0	000.0717730
4.5	0.5	4.0	1.5	6.0	3.5	1.5	4.0	1.5	2.0	4.0	000.0313019
4.5	0.5	4.0	1.5	6.0	3.5	1.5	4.0	1.5	2.0	6.0	-000.1453811

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.5	0.5	4.0 1.5 6.0	3.5 1.5	4.0 1.5	2.0 8.0	-002.0129409	
4.5	0.5	4.0 1.5 6.0	3.5 1.5	4.0 1.5	4.0 2.0	-000.0299163	
4.5	0.5	4.0 1.5 6.0	3.5 1.5	4.0 1.5	4.0 4.0	-000.0158537	
4.5	0.5	4.0 1.5 6.0	3.5 1.5	4.0 1.5	4.0 6.0	000.0196349	
4.5	0.5	4.0 1.5 6.0	3.5 1.5	4.0 1.5	4.0 8.0	000.0556085	
4.5	0.5	4.0 1.5 6.0	3.5 1.5	5.0 1.5	3.0 3.0	-000.1029585	
4.5	0.5	4.0 1.5 6.0	3.5 1.5	5.0 1.5	3.0 5.0	-000.3076771	
4.5	0.5	4.0 1.5 6.0	3.5 1.5	5.0 1.5	3.0 7.0	-000.4908822	
4.5	0.5	4.0 1.5 6.0	3.5 1.5	5.0 1.5	5.0 1.0	000.0620679	
4.5	0.5	4.0 1.5 6.0	3.5 1.5	5.0 1.5	5.0 3.0	000.0738937	
4.5	0.5	4.0 1.5 6.0	3.5 1.5	5.0 1.5	5.0 5.0	000.0643790	
4.5	0.5	4.0 1.5 6.0	3.5 1.5	5.0 1.5	5.0 7.0	000.0359496	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	4.0 1.5	4.0 2.0	000.0000000	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	4.0 1.5	4.0 4.0	000.0000000	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	4.0 1.5	4.0 6.0	000.0000000	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	4.0 1.5	4.0 8.0	000.0000000	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	4.0 1.5	6.0 2.0	000.0000000	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	4.0 1.5	6.0 4.0	000.0000000	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	4.0 1.5	6.0 6.0	000.0000000	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	4.0 1.5	6.0 8.0	000.0000000	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	5.0 1.5	3.0 3.0	-000.0255608	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	5.0 1.5	3.0 5.0	-000.0993009	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	5.0 1.5	3.0 7.0	-000.2795857	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	5.0 1.5	3.0 9.0	-000.9699744	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	5.0 1.5	5.0 1.0	000.0431916	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	5.0 1.5	5.0 3.0	000.0580134	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	5.0 1.5	5.0 5.0	000.0657062	
4.5	0.5	4.0 1.5 6.0	4.5 0.5	5.0 1.5	5.0 7.0	000.0647488	

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.5	0.5	4.0 1.5 6.0	4.5 0.5	5.0	1.5	5.0 9.0	000.0510535
4.5	0.5	4.0 1.5 6.0	4.5 1.5	3.0	1.5	3.0 3.0	000.0575552
4.5	0.5	4.0 1.5 6.0	4.5 1.5	3.0	1.5	3.0 5.0	000.1719952
4.5	0.5	4.0 1.5 6.0	4.5 1.5	3.0	1.5	3.0 7.0	000.2744103
4.5	0.5	4.0 1.5 6.0	4.5 1.5	3.0	1.5	5.0 1.0	-000.1097220
4.5	0.5	4.0 1.5 6.0	4.5 1.5	3.0	1.5	5.0 3.0	-000.1306268
4.5	0.5	4.0 1.5 6.0	4.5 1.5	3.0	1.5	5.0 5.0	-000.1138071
4.5	0.5	4.0 1.5 6.0	4.5 1.5	3.0	1.5	5.0 7.0	-000.0635505
4.5	0.5	4.0 1.5 6.0	4.5 1.5	4.0	1.5	4.0 2.0	-000.0059493
4.5	0.5	4.0 1.5 6.0	4.5 1.5	4.0	1.5	4.0 4.0	-000.0252218
4.5	0.5	4.0 1.5 6.0	4.5 1.5	4.0	1.5	4.0 6.0	-000.0546655
4.5	0.5	4.0 1.5 6.0	4.5 1.5	4.0	1.5	4.0 8.0	-000.0758298
4.5	0.5	4.0 1.5 6.0	4.5 1.5	4.0	1.5	6.0 2.0	000.1800151
4.5	0.5	4.0 1.5 6.0	4.5 1.5	4.0	1.5	6.0 4.0	000.2035134
4.5	0.5	4.0 1.5 6.0	4.5 1.5	4.0	1.5	6.0 6.0	000.1687845
4.5	0.5	4.0 1.5 6.0	4.5 1.5	4.0	1.5	6.0 8.0	000.0910507
4.5	0.5	4.0 1.5 6.0	4.5 1.5	5.0	1.5	3.0 3.0	000.0187843
4.5	0.5	4.0 1.5 6.0	4.5 1.5	5.0	1.5	3.0 5.0	000.0000000
4.5	0.5	4.0 1.5 6.0	4.5 1.5	5.0	1.5	3.0 7.0	-000.2967636
4.5	0.5	4.0 1.5 6.0	4.5 1.5	5.0	1.5	3.0 9.0	-002.3759450
4.5	0.5	4.0 1.5 6.0	4.5 1.5	5.0	1.5	5.0 1.0	-000.0493723
4.5	0.5	4.0 1.5 6.0	4.5 1.5	5.0	1.5	5.0 3.0	-000.0426312
4.5	0.5	4.0 1.5 6.0	4.5 1.5	5.0	1.5	5.0 5.0	000.0000000
4.5	0.5	4.0 1.5 6.0	4.5 1.5	5.0	1.5	5.0 7.0	000.0687270
4.5	0.5	4.0 1.5 6.0	4.5 1.5	5.0	1.5	5.0 9.0	000.1250547
4.5	0.5	4.0 1.5 6.0	4.5 1.5	6.0	1.5	4.0 2.0	-000.0002117
4.5	0.5	4.0 1.5 6.0	4.5 1.5	6.0	1.5	4.0 4.0	-000.0008977
4.5	0.5	4.0 1.5 6.0	4.5 1.5	6.0	1.5	4.0 6.0	-000.0019456

J_1 , S''	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
4.5	0.5	4.0 1.5 6.0	4.5 1.5 6.0	1.5 4.0 8.0	-000.0026988
4.5	0.5	4.0 1.5 6.0	4.5 1.5 6.0	1.5 6.0 2.0	000.0064068
4.5	0.5	4.0 1.5 6.0	4.5 1.5 6.0	1.5 6.0 4.0	000.0072432
4.5	0.5	4.0 1.5 6.0	4.5 1.5 6.0	1.5 6.0 6.0	000.0060071
4.5	0.5	4.0 1.5 6.0	4.5 1.5 6.0	1.5 6.0 8.0	000.0032405
4.5	0.5	5.0 0.5 5.0	0.5 0.5 0.0	0.5 0.0 5.0	-000.4494666
4.5	0.5	5.0 0.5 5.0	0.5 0.5 1.0	0.5 1.0 4.0	-000.4057204
4.5	0.5	5.0 0.5 5.0	0.5 1.5 1.0	0.5 1.0 4.0	-000.5737752
4.5	0.5	5.0 0.5 5.0	0.5 1.5 2.0	0.5 0.0 5.0	-000.6356416
4.5	0.5	5.0 0.5 5.0	1.5 0.5 1.0	0.5 1.0 4.0	-000.2581857
4.5	0.5	5.0 0.5 5.0	1.5 0.5 1.0	0.5 1.0 6.0	-000.6670903
4.5	0.5	5.0 0.5 5.0	1.5 0.5 2.0	0.5 2.0 3.0	-000.5939138
4.5	0.5	5.0 0.5 5.0	1.5 0.5 2.0	0.5 2.0 5.0	-000.1498222
4.5	0.5	5.0 0.5 5.0	1.5 1.5 0.0	0.5 2.0 5.0	000.8989329
4.5	0.5	5.0 0.5 5.0	1.5 1.5 1.0	0.5 1.0 4.0	-000.6268053
4.5	0.5	5.0 0.5 5.0	1.5 1.5 1.0	0.5 1.0 6.0	001.1933272
4.5	0.5	5.0 0.5 5.0	1.5 1.5 2.0	0.5 2.0 3.0	-001.1878275
4.5	0.5	5.0 0.5 5.0	1.5 1.5 2.0	0.5 2.0 5.0	000.5992884
4.5	0.5	5.0 0.5 5.0	1.5 1.5 3.0	0.5 1.0 4.0	-000.5938155
4.5	0.5	5.0 0.5 5.0	1.5 1.5 3.0	0.5 1.0 6.0	-000.5966636
4.5	0.5	5.0 0.5 5.0	2.5 0.5 2.0	0.5 2.0 3.0	-000.2159685
4.5	0.5	5.0 0.5 5.0	2.5 0.5 2.0	0.5 2.0 5.0	-000.3687928
4.5	0.5	5.0 0.5 5.0	2.5 0.5 2.0	0.5 2.0 7.0	-000.8274235
4.5	0.5	5.0 0.5 5.0	2.5 0.5 3.0	0.5 3.0 2.0	-000.7098630
4.5	0.5	5.0 0.5 5.0	2.5 0.5 3.0	0.5 3.0 4.0	-000.1896870
4.5	0.5	5.0 0.5 5.0	2.5 0.5 3.0	0.5 3.0 6.0	-000.0741205
4.5	0.5	5.0 0.5 5.0	2.5 1.5 1.0	0.5 3.0 4.0	000.7272726
4.5	0.5	5.0 0.5 5.0	2.5 1.5 1.0	0.5 3.0 6.0	000.7307603

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	0.5	5.0	0.5	5.0	2.5	1.5	2.0	0.5	2.0	3.0	-000.4906205
4.5	0.5	5.0	0.5	5.0	2.5	1.5	2.0	0.5	2.0	5.0	-000.1724869
4.5	0.5	5.0	0.5	5.0	2.5	1.5	2.0	0.5	2.0	7.0	001.7691060
4.5	0.5	5.0	0.5	5.0	2.5	1.5	3.0	0.5	3.0	2.0	-001.5873008
4.5	0.5	5.0	0.5	5.0	2.5	1.5	3.0	0.5	3.0	4.0	000.4665691
4.5	0.5	5.0	0.5	5.0	2.5	1.5	3.0	0.5	3.0	6.0	000.7292552
4.5	0.5	5.0	0.5	5.0	2.5	1.5	4.0	0.5	2.0	3.0	-000.5301927
4.5	0.5	5.0	0.5	5.0	2.5	1.5	4.0	0.5	2.0	5.0	-000.6337585
4.5	0.5	5.0	0.5	5.0	2.5	1.5	4.0	0.5	2.0	7.0	-000.5416759
4.5	0.5	5.0	0.5	5.0	3.5	0.5	3.0	0.5	3.0	2.0	-000.1935989
4.5	0.5	5.0	0.5	5.0	3.5	0.5	3.0	0.5	3.0	4.0	-000.2954743
4.5	0.5	5.0	0.5	5.0	3.5	0.5	3.0	0.5	3.0	6.0	-000.4447261
4.5	0.5	5.0	0.5	5.0	3.5	0.5	3.0	0.5	3.0	8.0	-000.9596319
4.5	0.5	5.0	0.5	5.0	3.5	0.5	4.0	0.5	4.0	1.0	-000.7407402
4.5	0.5	5.0	0.5	5.0	3.5	0.5	4.0	0.5	4.0	3.0	-000.1619767
4.5	0.5	5.0	0.5	5.0	3.5	0.5	4.0	0.5	4.0	5.0	-000.0691479
4.5	0.5	5.0	0.5	5.0	3.5	0.5	4.0	0.5	4.0	7.0	-000.0306441
4.5	0.5	5.0	0.5	5.0	3.5	1.5	2.0	0.5	4.0	3.0	000.6122125
4.5	0.5	5.0	0.5	5.0	3.5	1.5	2.0	0.5	4.0	5.0	000.7318002
4.5	0.5	5.0	0.5	5.0	3.5	1.5	2.0	0.5	4.0	7.0	000.6254731
4.5	0.5	5.0	0.5	5.0	3.5	1.5	3.0	0.5	3.0	2.0	-000.3725810
4.5	0.5	5.0	0.5	5.0	3.5	1.5	3.0	0.5	3.0	4.0	-000.3032754
4.5	0.5	5.0	0.5	5.0	3.5	1.5	3.0	0.5	3.0	6.0	000.1711751
4.5	0.5	5.0	0.5	5.0	3.5	1.5	3.0	0.5	3.0	8.0	002.2161762
4.5	0.5	5.0	0.5	5.0	3.5	1.5	4.0	0.5	4.0	1.0	-001.7529118
4.5	0.5	5.0	0.5	5.0	3.5	1.5	4.0	0.5	4.0	3.0	000.4380633
4.5	0.5	5.0	0.5	5.0	3.5	1.5	4.0	0.5	4.0	5.0	000.8181771
4.5	0.5	5.0	0.5	5.0	3.5	1.5	4.0	0.5	4.0	7.0	000.7666410

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	0.5	5.0	0.5	5.0	3.5	1.5	5.0	0.5	3.0	2.0	-000.0424131
4.5	0.5	5.0	0.5	5.0	3.5	1.5	5.0	0.5	3.0	4.0	-000.0539434
4.5	0.5	5.0	0.5	5.0	3.5	1.5	5.0	0.5	3.0	6.0	-000.0556742
4.5	0.5	5.0	0.5	5.0	3.5	1.5	5.0	0.5	3.0	8.0	-000.0450501
4.5	0.5	5.0	0.5	5.0	4.5	0.5	4.0	0.5	4.0	1.0	-000.1683495
4.5	0.5	5.0	0.5	5.0	4.5	0.5	4.0	0.5	4.0	3.0	-000.2491949
4.5	0.5	5.0	0.5	5.0	4.5	0.5	4.0	0.5	4.0	5.0	-000.3457436
4.5	0.5	5.0	0.5	5.0	4.5	0.5	4.0	0.5	4.0	7.0	-000.5047456
4.5	0.5	5.0	0.5	5.0	4.5	0.5	4.0	0.5	4.0	9.0	-001.0745599
4.5	0.5	5.0	0.5	5.0	4.5	0.5	5.0	0.5	5.0	2.0	000.0000000
4.5	0.5	5.0	0.5	5.0	4.5	0.5	5.0	0.5	5.0	4.0	000.0000000
4.5	0.5	5.0	0.5	5.0	4.5	0.5	5.0	0.5	5.0	6.0	000.0000000
4.5	0.5	5.0	0.5	5.0	4.5	0.5	5.0	0.5	5.0	8.0	000.0000000
4.5	0.5	5.0	0.5	5.0	4.5	1.5	3.0	0.5	5.0	2.0	000.0474193
4.5	0.5	5.0	0.5	5.0	4.5	1.5	3.0	0.5	5.0	4.0	000.0603105
4.5	0.5	5.0	0.5	5.0	4.5	1.5	3.0	0.5	5.0	6.0	000.0622454
4.5	0.5	5.0	0.5	5.0	4.5	1.5	3.0	0.5	5.0	8.0	000.0503676
4.5	0.5	5.0	0.5	5.0	4.5	1.5	4.0	0.5	4.0	1.0	-000.2639499
4.5	0.5	5.0	0.5	5.0	4.5	1.5	4.0	0.5	4.0	3.0	-000.2779982
4.5	0.5	5.0	0.5	5.0	4.5	1.5	4.0	0.5	4.0	5.0	-000.1042437
4.5	0.5	5.0	0.5	5.0	4.5	1.5	4.0	0.5	4.0	7.0	000.4413417
4.5	0.5	5.0	0.5	5.0	4.5	1.5	4.0	0.5	4.0	9.0	002.5919383
4.5	0.5	5.0	0.5	5.0	4.5	1.5	5.0	0.5	5.0	2.0	000.0060965
4.5	0.5	5.0	0.5	5.0	4.5	1.5	5.0	0.5	5.0	4.0	000.0077538
4.5	0.5	5.0	0.5	5.0	4.5	1.5	5.0	0.5	5.0	6.0	000.0080026
4.5	0.5	5.0	0.5	5.0	4.5	1.5	5.0	0.5	5.0	8.0	000.0064755
4.5	0.5	5.0	0.5	5.0	4.5	1.5	6.0	0.5	4.0	1.0	-000.0634788
4.5	0.5	5.0	0.5	5.0	4.5	1.5	6.0	0.5	4.0	3.0	-000.0852618

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	0.5	5.0 0.5 5.0	4.5 1.5 6.0	0.5 4.0 5.0	-000.0965682
4.5	0.5	5.0 0.5 5.0	4.5 1.5 6.0	0.5 4.0 7.0	-000.0951607
4.5	0.5	5.0 0.5 5.0	4.5 1.5 6.0	0.5 4.0 9.0	-000.0750327
4.5	0.5	5.0 1.5 3.0	0.5 0.5 0.0	1.5 2.0 5.0	000.3669879
4.5	0.5	5.0 1.5 3.0	0.5 0.5 1.0	1.5 1.0 4.0	000.3312693
4.5	0.5	5.0 1.5 3.0	0.5 1.5 1.0	1.5 1.0 4.0	000.4684855
4.5	0.5	5.0 1.5 3.0	0.5 1.5 2.0	1.5 2.0 5.0	000.5189991
4.5	0.5	5.0 1.5 3.0	1.5 0.5 1.0	1.5 1.0 4.0	-000.3666479
4.5	0.5	5.0 1.5 3.0	1.5 0.5 1.0	1.5 3.0 4.0	000.0999945
4.5	0.5	5.0 1.5 3.0	1.5 0.5 1.0	1.5 3.0 6.0	000.5741399
4.5	0.5	5.0 1.5 3.0	1.5 0.5 2.0	1.5 0.0 3.0	-000.5143444
4.5	0.5	5.0 1.5 3.0	1.5 0.5 2.0	1.5 2.0 3.0	000.1714481
4.5	0.5	5.0 1.5 3.0	1.5 0.5 2.0	1.5 2.0 5.0	000.1729995
4.5	0.5	5.0 1.5 3.0	1.5 1.5 0.0	1.5 2.0 5.0	-001.0379984
4.5	0.5	5.0 1.5 3.0	1.5 1.5 1.0	1.5 1.0 4.0	-000.8901224
4.5	0.5	5.0 1.5 3.0	1.5 1.5 1.0	1.5 3.0 4.0	000.2427606
4.5	0.5	5.0 1.5 3.0	1.5 1.5 1.0	1.5 3.0 6.0	-001.0270528
4.5	0.5	5.0 1.5 3.0	1.5 1.5 2.0	1.5 0.0 3.0	-001.0286889
4.5	0.5	5.0 1.5 3.0	1.5 1.5 2.0	1.5 2.0 3.0	000.3428962
4.5	0.5	5.0 1.5 3.0	1.5 1.5 2.0	1.5 2.0 5.0	-000.6919992
4.5	0.5	5.0 1.5 3.0	1.5 1.5 3.0	1.5 1.0 4.0	-000.8432741
4.5	0.5	5.0 1.5 3.0	1.5 1.5 3.0	1.5 3.0 4.0	000.2299840
4.5	0.5	5.0 1.5 3.0	1.5 1.5 3.0	1.5 3.0 6.0	000.5135265
4.5	0.5	5.0 1.5 3.0	2.5 0.5 2.0	1.5 2.0 3.0	-000.3665715
4.5	0.5	5.0 1.5 3.0	2.5 0.5 2.0	1.5 2.0 5.0	-000.3698890
4.5	0.5	5.0 1.5 3.0	2.5 0.5 2.0	1.5 4.0 3.0	000.0408141
4.5	0.5	5.0 1.5 3.0	2.5 0.5 2.0	1.5 4.0 5.0	000.1742384
4.5	0.5	5.0 1.5 3.0	2.5 0.5 2.0	1.5 4.0 7.0	000.7297187

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	0.5	5.0 1.5 3.0 2.5 0.5 3.0	1.5	1.0 2.0	-000.6734350
4.5	0.5	5.0 1.5 3.0 2.5 0.5 3.0	1.5	1.0 4.0	-000.1099716
4.5	0.5	5.0 1.5 3.0 2.5 0.5 3.0	1.5	3.0 2.0	000.0916425
4.5	0.5	5.0 1.5 3.0 2.5 0.5 3.0	1.5	3.0 4.0	000.1101982
4.5	0.5	5.0 1.5 3.0 2.5 0.5 3.0	1.5	3.0 6.0	000.0956899
4.5	0.5	5.0 1.5 3.0 2.5 1.5 1.0	1.5	1.0 4.0	000.4216370
4.5	0.5	5.0 1.5 3.0 2.5 1.5 1.0	1.5	3.0 4.0	-000.4225069
4.5	0.5	5.0 1.5 3.0 2.5 1.5 1.0	1.5	3.0 6.0	-000.9434077
4.5	0.5	5.0 1.5 3.0 2.5 1.5 2.0	1.5	2.0 3.0	-000.8327477
4.5	0.5	5.0 1.5 3.0 2.5 1.5 2.0	1.5	2.0 5.0	-000.1729995
4.5	0.5	5.0 1.5 3.0 2.5 1.5 2.0	1.5	4.0 3.0	000.0927184
4.5	0.5	5.0 1.5 3.0 2.5 1.5 2.0	1.5	4.0 5.0	000.0814921
4.5	0.5	5.0 1.5 3.0 2.5 1.5 2.0	1.5	4.0 7.0	-001.5602049
4.5	0.5	5.0 1.5 3.0 2.5 1.5 3.0	1.5	1.0 2.0	-001.5058461
4.5	0.5	5.0 1.5 3.0 2.5 1.5 3.0	1.5	1.0 4.0	000.2704939

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.5	0.5	5.0	1.5	3.0	2.5	1.5	000.2049196
4.5	0.5	5.0	1.5	3.0	2.5	1.5	-000.2710523
4.5	0.5	5.0	1.5	3.0	2.5	1.5	-000.9414643
4.5	0.5	5.0	1.5	3.0	2.5	1.5	-000.8999146
4.5	0.5	5.0	1.5	3.0	2.5	1.5	-000.6356419
4.5	0.5	5.0	1.5	3.0	2.5	1.5	000.1001967
4.5	0.5	5.0	1.5	3.0	2.5	1.5	000.2994227
4.5	0.5	5.0	1.5	3.0	2.5	1.5	000.4777128
4.5	0.5	5.0	1.5	3.0	3.5	0.5	-000.3549309
4.5	0.5	5.0	1.5	3.0	3.5	0.5	-000.4267969
4.5	0.5	5.0	1.5	3.0	3.5	0.5	-000.3706055
4.5	0.5	5.0	1.5	3.0	3.5	0.5	000.0144292
4.5	0.5	5.0	1.5	3.0	3.5	0.5	000.0734112
4.5	0.5	5.0	1.5	3.0	3.5	0.5	000.2320361
4.5	0.5	5.0	1.5	3.0	3.5	0.5	000.8583209
4.5	0.5	5.0	1.5	3.0	3.5	0.5	-000.7273926
4.5	0.5	5.0	1.5	3.0	3.5	0.5	-000.1296021
4.5	0.5	5.0	1.5	3.0	3.5	0.5	-000.0326937
4.5	0.5	5.0	1.5	3.0	3.5	0.5	000.0361439
4.5	0.5	5.0	1.5	3.0	3.5	0.5	000.0474215
4.5	0.5	5.0	1.5	3.0	3.5	0.5	000.0506120
4.5	0.5	5.0	1.5	3.0	3.5	0.5	000.0418692
4.5	0.5	5.0	1.5	3.0	3.5	1.5	000.4898515
4.5	0.5	5.0	1.5	3.0	3.5	1.5	000.3459996
4.5	0.5	5.0	1.5	3.0	3.5	1.5	-000.1792373
4.5	0.5	5.0	1.5	3.0	3.5	1.5	-000.5356234
4.5	0.5	5.0	1.5	3.0	3.5	1.5	-000.8545592
4.5	0.5	5.0	1.5	3.0	3.5	1.5	-000.6830652

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	0.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	4.0	-000.4380649
4.5	0.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	6.0	000.1426465
4.5	0.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	2.0	000.0277707
4.5	0.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	4.0	000.0753497
4.5	0.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	6.0	-000.0893109
4.5	0.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	8.0	-001.9822082
4.5	0.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	1.0	-001.7213257
4.5	0.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	3.0	000.3505096
4.5	0.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	5.0	000.3868397
4.5	0.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	1.0	000.0855326
4.5	0.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	3.0	-000.1282525
4.5	0.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	5.0	-000.5988446
4.5	0.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	7.0	-001.0474299
4.5	0.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	3.0	2.0	-000.0777576
4.5	0.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	3.0	4.0	-000.0779181
4.5	0.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	3.0	6.0	-000.0463952
4.5	0.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	5.0	2.0	000.0031612
4.5	0.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	5.0	4.0	000.0134022
4.5	0.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	5.0	6.0	000.0290480
4.5	0.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	5.0	8.0	000.0402941
4.5	0.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	1.0	-000.3223652
4.5	0.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	3.0	-000.4229473
4.5	0.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	5.0	-000.4513972
4.5	0.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	7.0	-000.3734255
4.5	0.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	3.0	000.0255608
4.5	0.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	5.0	000.0993009
4.5	0.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	7.0	000.2795857
4.5	0.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	9.0	000.9699744

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	0.5	5.0	1.5	3.0	4.5	0.5	5.0	1.5	3.0	2.0	000.0000000
4.5	0.5	5.0	1.5	3.0	4.5	0.5	5.0	1.5	3.0	4.0	-000.0000000
4.5	0.5	5.0	1.5	3.0	4.5	0.5	5.0	1.5	3.0	6.0	000.0000000
4.5	0.5	5.0	1.5	3.0	4.5	0.5	5.0	1.5	5.0	2.0	000.0000000
4.5	0.5	5.0	1.5	3.0	4.5	0.5	5.0	1.5	5.0	4.0	-000.0000000
4.5	0.5	5.0	1.5	3.0	4.5	0.5	5.0	1.5	5.0	6.0	000.0000000
4.5	0.5	5.0	1.5	3.0	4.5	0.5	5.0	1.5	5.0	8.0	-000.0000000
4.5	0.5	5.0	1.5	3.0	4.5	1.5	3.0	1.5	3.0	2.0	000.4781460
4.5	0.5	5.0	1.5	3.0	4.5	1.5	3.0	1.5	3.0	4.0	000.4791328
4.5	0.5	5.0	1.5	3.0	4.5	1.5	3.0	1.5	3.0	6.0	000.2852927
4.5	0.5	5.0	1.5	3.0	4.5	1.5	3.0	1.5	5.0	2.0	-000.0614731
4.5	0.5	5.0	1.5	3.0	4.5	1.5	3.0	1.5	5.0	4.0	-000.2606127
4.5	0.5	5.0	1.5	3.0	4.5	1.5	3.0	1.5	5.0	6.0	-000.5648486
4.5	0.5	5.0	1.5	3.0	4.5	1.5	3.0	1.5	5.0	8.0	-000.7835347
4.5	0.5	5.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	1.0	-000.5054242
4.5	0.5	5.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	3.0	-000.4718354
4.5	0.5	5.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	5.0	-000.1360996
4.5	0.5	5.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	7.0	000.3265171
4.5	0.5	5.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	3.0	000.0285161
4.5	0.5	5.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	5.0	000.0299389
4.5	0.5	5.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	7.0	-000.2444644
4.5	0.5	5.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	9.0	-002.3396676
4.5	0.5	5.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	2.0	000.0614727
4.5	0.5	5.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	4.0	000.0615996
4.5	0.5	5.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	6.0	000.0366786
4.5	0.5	5.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	2.0	-000.0079032
4.5	0.5	5.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	4.0	-000.0335056
4.5	0.5	5.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	6.0	-000.0726199

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	0.5	5.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	8.0	-000.1007353
4.5	0.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	1.0	-000.1215524
4.5	0.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	3.0	-000.1447116
4.5	0.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	5.0	-000.1260780
4.5	0.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	7.0	-000.0704030
4.5	0.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	3.0	000.0087455
4.5	0.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	5.0	000.0277356
4.5	0.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	7.0	000.0527105
4.5	0.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	9.0	000.0677299
4.5	0.5	5.0	1.5	5.0	0.5	0.5	0.0	1.5	2.0	5.0	-000.2594996
4.5	0.5	5.0	1.5	5.0	0.5	0.5	1.0	1.5	1.0	4.0	-000.2342427
4.5	0.5	5.0	1.5	5.0	0.5	1.5	1.0	1.5	1.0	4.0	-000.3312692
4.5	0.5	5.0	1.5	5.0	0.5	1.5	2.0	1.5	2.0	5.0	-000.3669880
4.5	0.5	5.0	1.5	5.0	1.5	0.5	1.0	1.5	1.0	4.0	-000.3771042
4.5	0.5	5.0	1.5	5.0	1.5	0.5	1.0	1.5	1.0	6.0	000.3653802
4.5	0.5	5.0	1.5	5.0	1.5	0.5	1.0	1.5	3.0	4.0	-000.2828278
4.5	0.5	5.0	1.5	5.0	1.5	0.5	1.0	1.5	3.0	6.0	-000.2841844
4.5	0.5	5.0	1.5	5.0	1.5	0.5	2.0	1.5	0.0	5.0	000.1834939
4.5	0.5	5.0	1.5	5.0	1.5	0.5	2.0	1.5	2.0	3.0	-000.4849284
4.5	0.5	5.0	1.5	5.0	1.5	0.5	2.0	1.5	2.0	5.0	000.0611644
4.5	0.5	5.0	1.5	5.0	1.5	1.5	0.0	1.5	0.0	5.0	-001.1009637
4.5	0.5	5.0	1.5	5.0	1.5	1.5	0.0	1.5	2.0	5.0	-000.3669876
4.5	0.5	5.0	1.5	5.0	1.5	1.5	1.0	1.5	1.0	4.0	-000.9155078
4.5	0.5	5.0	1.5	5.0	1.5	1.5	1.0	1.5	1.0	6.0	-000.6536123
4.5	0.5	5.0	1.5	5.0	1.5	1.5	1.0	1.5	3.0	4.0	-000.6866309
4.5	0.5	5.0	1.5	5.0	1.5	1.5	1.0	1.5	3.0	6.0	000.5083649
4.5	0.5	5.0	1.5	5.0	1.5	1.5	2.0	1.5	0.0	5.0	-000.7339758
4.5	0.5	5.0	1.5	5.0	1.5	1.5	2.0	1.5	2.0	3.0	-000.9698575

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	0.5	5.0 1.5	5.0 1.5	1.5 2.0	1.5 2.0 5.0 -000.2446584
4.5	0.5	5.0 1.5	5.0 1.5	1.5 3.0	1.5 1.0 4.0 -000.8673236
4.5	0.5	5.0 1.5	5.0 1.5	1.5 3.0	1.5 1.0 6.0 000.3268060
4.5	0.5	5.0 1.5	5.0 1.5	1.5 3.0	1.5 3.0 4.0 -000.6504927
4.5	0.5	5.0 1.5	5.0 1.5	1.5 3.0	1.5 3.0 6.0 -000.2541823
4.5	0.5	5.0 1.5	5.0 2.5	0.5 2.0	1.5 2.0 3.0 -000.3770257
4.5	0.5	5.0 1.5	5.0 2.5	0.5 2.0	1.5 2.0 5.0 -000.2816702
4.5	0.5	5.0 1.5	5.0 2.5	0.5 2.0	1.5 2.0 7.0 000.5416759
4.5	0.5	5.0 1.5	5.0 2.5	0.5 2.0	1.5 4.0 3.0 -000.2886001
4.5	0.5	5.0 1.5	5.0 2.5	0.5 2.0	1.5 4.0 5.0 -000.3449744
4.5	0.5	5.0 1.5	5.0 2.5	0.5 2.0	1.5 4.0 7.0 -000.2948508
4.5	0.5	5.0 1.5	5.0 2.5	0.5 3.0	1.5 1.0 4.0 000.0989689
4.5	0.5	5.0 1.5	5.0 2.5	0.5 3.0	1.5 1.0 6.0 000.0994437
4.5	0.5	5.0 1.5	5.0 2.5	0.5 3.0	1.5 3.0 2.0 -000.6480132
4.5	0.5	5.0 1.5	5.0 2.5	0.5 3.0	1.5 3.0 4.0 -000.0519473
4.5	0.5	5.0 1.5	5.0 2.5	0.5 3.0	1.5 3.0 6.0 000.0541307
4.5	0.5	5.0 1.5	5.0 2.5	1.5 1.0	1.5 1.0 4.0 -000.3794535
4.5	0.5	5.0 1.5	5.0 2.5	1.5 1.0	1.5 1.0 6.0 -000.9804185
4.5	0.5	5.0 1.5	5.0 2.5	1.5 1.0	1.5 3.0 4.0 000.1991720
4.5	0.5	5.0 1.5	5.0 2.5	1.5 1.0	1.5 3.0 6.0 -000.5336714
4.5	0.5	5.0 1.5	5.0 2.5	1.5 2.0	1.5 2.0 3.0 -000.8564974
4.5	0.5	5.0 1.5	5.0 2.5	1.5 2.0	1.5 2.0 5.0 -000.1317393
4.5	0.5	5.0 1.5	5.0 2.5	1.5 2.0	1.5 2.0 7.0 -001.1581522
4.5	0.5	5.0 1.5	5.0 2.5	1.5 2.0	1.5 4.0 3.0 -000.6556192
4.5	0.5	5.0 1.5	5.0 2.5	1.5 2.0	1.5 4.0 5.0 -000.1613464
4.5	0.5	5.0 1.5	5.0 2.5	1.5 2.0	1.5 4.0 7.0 000.6304175
4.5	0.5	5.0 1.5	5.0 2.5	1.5 3.0	1.5 1.0 4.0 -000.2434325
4.5	0.5	5.0 1.5	5.0 2.5	1.5 3.0	1.5 1.0 6.0 -000.9783990

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	0.5	5.0	1.5	5.0	2.5	1.5	3.0	1.5	3.0	2.0	-001.4490013
4.5	0.5	5.0	1.5	5.0	2.5	1.5	3.0	1.5	3.0	4.0	000.1277750
4.5	0.5	5.0	1.5	5.0	2.5	1.5	3.0	1.5	3.0	6.0	-000.5325735
4.5	0.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	2.0	3.0	-000.9255794
4.5	0.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	2.0	5.0	-000.4840406
4.5	0.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	2.0	7.0	000.3546105
4.5	0.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	4.0	3.0	-000.7084989
4.5	0.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	4.0	5.0	-000.5928266
4.5	0.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	4.0	7.0	-000.1930250
4.5	0.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	2.0	-000.3650527
4.5	0.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	4.0	-000.3946490
4.5	0.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	6.0	-000.2096457
4.5	0.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	8.0	000.6785622
4.5	0.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	2.0	-000.0259726
4.5	0.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	4.0	-000.0330333
4.5	0.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	6.0	-000.0340933
4.5	0.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	8.0	-000.0275874
4.5	0.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	2.0	3.0	000.0416555
4.5	0.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	2.0	5.0	000.0497925
4.5	0.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	2.0	7.0	000.0425575
4.5	0.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	1.0	-000.7156227
4.5	0.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	3.0	-000.1005967
4.5	0.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	5.0	000.0000000
4.5	0.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	7.0	000.0274919
4.5	0.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	2.0	3.0	-000.1574439
4.5	0.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	2.0	5.0	-000.5269570
4.5	0.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	2.0	7.0	-000.8686130
4.5	0.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	4.0	3.0	000.3802201

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.5	0.5	5.0 1.5 5.0	3.5 1.5	2.0	1.5	4.0 5.0	-000.0000000
4.5	0.5	5.0 1.5 5.0	3.5 1.5	2.0	1.5	4.0 7.0	-000.5611035
4.5	0.5	5.0 1.5 5.0	3.5 1.5	3.0	1.5	3.0 2.0	-000.7025451
4.5	0.5	5.0 1.5 5.0	3.5 1.5	3.0	1.5	3.0 4.0	-000.4050682
4.5	0.5	5.0 1.5 5.0	3.5 1.5	3.0	1.5	3.0 6.0	000.0806934
4.5	0.5	5.0 1.5 5.0	3.5 1.5	3.0	1.5	3.0 8.0	-001.5670730
4.5	0.5	5.0 1.5 5.0	3.5 1.5	3.0	1.5	5.0 2.0	-000.0499844
4.5	0.5	5.0 1.5 5.0	3.5 1.5	3.0	1.5	5.0 4.0	-000.0339054
4.5	0.5	5.0 1.5 5.0	3.5 1.5	3.0	1.5	5.0 6.0	000.0131225
4.5	0.5	5.0 1.5 5.0	3.5 1.5	3.0	1.5	5.0 8.0	000.0637105
4.5	0.5	5.0 1.5 5.0	3.5 1.5	4.0	1.5	2.0 3.0	-000.1126585
4.5	0.5	5.0 1.5 5.0	3.5 1.5	4.0	1.5	2.0 5.0	-000.5891559
4.5	0.5	5.0 1.5 5.0	3.5 1.5	4.0	1.5	2.0 7.0	-001.0646564
4.5	0.5	5.0 1.5 5.0	3.5 1.5	4.0	1.5	4.0 1.0	-001.6934749
4.5	0.5	5.0 1.5 5.0	3.5 1.5	4.0	1.5	4.0 3.0	000.2720641
4.5	0.5	5.0 1.5 5.0	3.5 1.5	4.0	1.5	4.0 5.0	000.0000000
4.5	0.5	5.0 1.5 5.0	3.5 1.5	4.0	1.5	4.0 7.0	-000.6877420
4.5	0.5	5.0 1.5 5.0	3.5 1.5	5.0	1.5	3.0 2.0	-000.0799751
4.5	0.5	5.0 1.5 5.0	3.5 1.5	5.0	1.5	3.0 4.0	-000.0720492
4.5	0.5	5.0 1.5 5.0	3.5 1.5	5.0	1.5	3.0 6.0	-000.0262450
4.5	0.5	5.0 1.5 5.0	3.5 1.5	5.0	1.5	3.0 8.0	000.0318551
4.5	0.5	5.0 1.5 5.0	3.5 1.5	5.0	1.5	5.0 2.0	-000.0056900
4.5	0.5	5.0 1.5 5.0	3.5 1.5	5.0	1.5	5.0 4.0	-000.0060307
4.5	0.5	5.0 1.5 5.0	3.5 1.5	5.0	1.5	5.0 6.0	-000.0042681
4.5	0.5	5.0 1.5 5.0	3.5 1.5	5.0	1.5	5.0 8.0	-000.0012951
4.5	0.5	5.0 1.5 5.0	4.5 0.5	4.0	1.5	4.0 1.0	-000.3315589
4.5	0.5	5.0 1.5 5.0	4.5 0.5	4.0	1.5	4.0 3.0	-000.4140952
4.5	0.5	5.0 1.5 5.0	4.5 0.5	4.0	1.5	4.0 5.0	-000.3830231

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	0.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	7.0	-000.1553251
4.5	0.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	9.0	000.7936157
4.5	0.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	1.0	-000.0431916
4.5	0.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	3.0	-000.0580134
4.5	0.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	5.0	-000.0657062
4.5	0.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	7.0	-000.0647488
4.5	0.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	9.0	-000.0510535
4.5	0.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	2.0	000.0000000
4.5	0.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	4.0	-000.0000000
4.5	0.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	6.0	000.0000000
4.5	0.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	8.0	-000.0000000
4.5	0.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	2.0	000.0000000
4.5	0.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	4.0	-000.0000000
4.5	0.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	6.0	000.0000000
4.5	0.5	5.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	8.0	-000.0000000
4.5	0.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	2.0	-000.0614731
4.5	0.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	4.0	-000.2606127
4.5	0.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	6.0	-000.5648486
4.5	0.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	8.0	-000.7835347
4.5	0.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	2.0	000.0395161
4.5	0.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	4.0	000.0268046
4.5	0.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	6.0	-000.0103742
4.5	0.5	5.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	8.0	-000.0503676
4.5	0.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	1.0	-000.5198381
4.5	0.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	3.0	-000.4619620
4.5	0.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	5.0	-000.1154835
4.5	0.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	7.0	000.1358125
4.5	0.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	9.0	-001.9142729

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	0.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	1.0	-000.0677185
4.5	0.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	3.0	-000.0647194
4.5	0.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	5.0	-000.0198111
4.5	0.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	7.0	000.0566149
4.5	0.5	5.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	9.0	000.1231457
4.5	0.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	2.0	-000.0079032
4.5	0.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	4.0	-000.0335056
4.5	0.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	6.0	-000.0726199
4.5	0.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	8.0	-000.1007353
4.5	0.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	2.0	000.0050804
4.5	0.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	4.0	000.0034461
4.5	0.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	6.0	-000.0013337
4.5	0.5	5.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	8.0	-000.0064755
4.5	0.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	1.0	-000.1250189
4.5	0.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	3.0	-000.1416832
4.5	0.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	5.0	-000.1069808
4.5	0.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	7.0	-000.0292834
4.5	0.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	9.0	000.0554151
4.5	0.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	1.0	-000.0162861
4.5	0.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	3.0	-000.0198494
4.5	0.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	5.0	-000.0183522
4.5	0.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	7.0	-000.0122072
4.5	0.5	5.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	9.0	-000.0035649
4.5	1.5	3.0	0.5	5.0	0.5	0.5	1.0	0.5	1.0	4.0	-000.2342428
4.5	1.5	3.0	0.5	5.0	0.5	1.5	1.0	0.5	1.0	4.0	001.1594427
4.5	1.5	3.0	0.5	5.0	0.5	1.5	2.0	0.5	0.0	5.0	001.1009637
4.5	1.5	3.0	0.5	5.0	1.5	0.5	1.0	0.5	1.0	4.0	000.2342426
4.5	1.5	3.0	0.5	5.0	1.5	0.5	2.0	0.5	2.0	3.0	-000.3428962

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	3.0 0.5 5.0 1.5 0.5	2.0	0.5 2.0 5.0	-000.3459991
4.5	1.5	3.0 0.5 5.0 1.5 1.5	0.0	0.5 2.0 3.0	-001.5430333
4.5	1.5	3.0 0.5 5.0 1.5 1.5	1.0	0.5 1.0 4.0	-000.5761609
4.5	1.5	3.0 0.5 5.0 1.5 1.5	2.0	0.5 2.0 3.0	000.8572403
4.5	1.5	3.0 0.5 5.0 1.5 1.5	2.0	0.5 2.0 5.0	000.8649988
4.5	1.5	3.0 0.5 5.0 1.5 1.5	3.0	0.5 1.0 4.0	000.2999843
4.5	1.5	3.0 0.5 5.0 1.5 1.5	3.0	0.5 1.0 6.0	001.7224195
4.5	1.5	3.0 0.5 5.0 2.5 0.5	2.0	0.5 2.0 3.0	000.3428964
4.5	1.5	3.0 0.5 5.0 2.5 0.5	2.0	0.5 2.0 5.0	000.3459991
4.5	1.5	3.0 0.5 5.0 2.5 0.5	3.0	0.5 3.0 2.0	-000.4098391
4.5	1.5	3.0 0.5 5.0 2.5 0.5	3.0	0.5 3.0 4.0	-000.4928224
4.5	1.5	3.0 0.5 5.0 2.5 0.5	3.0	0.5 3.0 6.0	-000.4279385
4.5	1.5	3.0 0.5 5.0 2.5 1.5	1.0	0.5 3.0 2.0	-002.0203054
4.5	1.5	3.0 0.5 5.0 2.5 1.5	1.0	0.5 3.0 4.0	-000.3299139
4.5	1.5	3.0 0.5 5.0 2.5 1.5	2.0	0.5 2.0 3.0	-000.4582143
4.5	1.5	3.0 0.5 5.0 2.5 1.5	2.0	0.5 2.0 5.0	-000.4623610
4.5	1.5	3.0 0.5 5.0 2.5 1.5	3.0	0.5 3.0 2.0	000.7331432
4.5	1.5	3.0 0.5 5.0 2.5 1.5	3.0	0.5 3.0 4.0	000.8815872
4.5	1.5	3.0 0.5 5.0 2.5 1.5	3.0	0.5 3.0 6.0	000.7655195
4.5	1.5	3.0 0.5 5.0 2.5 1.5	4.0	0.5 2.0 3.0	000.1224424
4.5	1.5	3.0 0.5 5.0 2.5 1.5	4.0	0.5 2.0 5.0	000.5227145
4.5	1.5	3.0 0.5 5.0 2.5 1.5	4.0	0.5 2.0 7.0	002.1891568
4.5	1.5	3.0 0.5 5.0 3.5 0.5	3.0	0.5 3.0 2.0	000.4098391
4.5	1.5	3.0 0.5 5.0 3.5 0.5	3.0	0.5 3.0 4.0	000.4928221
4.5	1.5	3.0 0.5 5.0 3.5 0.5	3.0	0.5 3.0 6.0	000.4279382
4.5	1.5	3.0 0.5 5.0 3.5 0.5	4.0	0.5 4.0 1.0	-000.4276667
4.5	1.5	3.0 0.5 5.0 3.5 0.5	4.0	0.5 4.0 3.0	-000.5611033
4.5	1.5	3.0 0.5 5.0 3.5 0.5	4.0	0.5 4.0 5.0	-000.5988446

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
4.5	1.5	3.0	0.5	5.0	3.5	0.5	4.0	0.5	4.0	7.0	-000.4954063
4.5	1.5	3.0	0.5	5.0	3.5	1.5	2.0	0.5	4.0	1.0	-002.1821778
4.5	1.5	3.0	0.5	5.0	3.5	1.5	2.0	0.5	4.0	3.0	-000.3888073
4.5	1.5	3.0	0.5	5.0	3.5	1.5	2.0	0.5	4.0	5.0	-000.0980820
4.5	1.5	3.0	0.5	5.0	3.5	1.5	3.0	0.5	3.0	2.0	-000.3549309
4.5	1.5	3.0	0.5	5.0	3.5	1.5	3.0	0.5	3.0	4.0	-000.4267969
4.5	1.5	3.0	0.5	5.0	3.5	1.5	3.0	0.5	3.0	6.0	-000.3706045
4.5	1.5	3.0	0.5	5.0	3.5	1.5	4.0	0.5	4.0	1.0	000.6144559
4.5	1.5	3.0	0.5	5.0	3.5	1.5	4.0	0.5	4.0	3.0	000.8061710
4.5	1.5	3.0	0.5	5.0	3.5	1.5	4.0	0.5	4.0	5.0	000.8603969
4.5	1.5	3.0	0.5	5.0	3.5	1.5	4.0	0.5	4.0	7.0	000.7117805
4.5	1.5	3.0	0.5	5.0	3.5	1.5	5.0	0.5	3.0	2.0	000.0432900
4.5	1.5	3.0	0.5	5.0	3.5	1.5	5.0	0.5	3.0	4.0	000.2202323
4.5	1.5	3.0	0.5	5.0	3.5	1.5	5.0	0.5	3.0	6.0	000.6961071
4.5	1.5	3.0	0.5	5.0	3.5	1.5	5.0	0.5	3.0	8.0	002.5749638
4.5	1.5	3.0	0.5	5.0	4.5	0.5	4.0	0.5	4.0	1.0	000.4276654
4.5	1.5	3.0	0.5	5.0	4.5	0.5	4.0	0.5	4.0	3.0	000.5611024
4.5	1.5	3.0	0.5	5.0	4.5	0.5	4.0	0.5	4.0	5.0	000.5988437
4.5	1.5	3.0	0.5	5.0	4.5	0.5	4.0	0.5	4.0	7.0	000.4954058
4.5	1.5	3.0	0.5	5.0	4.5	0.5	5.0	0.5	5.0	2.0	-000.0474193
4.5	1.5	3.0	0.5	5.0	4.5	0.5	5.0	0.5	5.0	4.0	-000.0603105
4.5	1.5	3.0	0.5	5.0	4.5	0.5	5.0	0.5	5.0	6.0	-000.0622454
4.5	1.5	3.0	0.5	5.0	4.5	0.5	5.0	0.5	5.0	8.0	-000.0503676
4.5	1.5	3.0	0.5	5.0	4.5	1.5	3.0	0.5	5.0	2.0	000.0000000
4.5	1.5	3.0	0.5	5.0	4.5	1.5	3.0	0.5	5.0	4.0	-000.0000000
4.5	1.5	3.0	0.5	5.0	4.5	1.5	3.0	0.5	5.0	6.0	000.0000000
4.5	1.5	3.0	0.5	5.0	4.5	1.5	4.0	0.5	4.0	1.0	-000.2578902
4.5	1.5	3.0	0.5	5.0	4.5	1.5	4.0	0.5	4.0	3.0	-000.3383560

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	3.0	0.5	5.0	4.5	1.5	4.0	0.5	4.0	5.0	-000.3611165
4.5	1.5	3.0	0.5	5.0	4.5	1.5	4.0	0.5	4.0	7.0	-000.2987391
4.5	1.5	3.0	0.5	5.0	4.5	1.5	5.0	0.5	5.0	2.0	000.0580766
4.5	1.5	3.0	0.5	5.0	4.5	1.5	5.0	0.5	5.0	4.0	000.0738648
4.5	1.5	3.0	0.5	5.0	4.5	1.5	5.0	0.5	5.0	6.0	000.0762348
4.5	1.5	3.0	0.5	5.0	4.5	1.5	5.0	0.5	5.0	8.0	000.0616873
4.5	1.5	3.0	0.5	5.0	4.5	1.5	6.0	0.5	4.0	3.0	000.0766843
4.5	1.5	3.0	0.5	5.0	4.5	1.5	6.0	0.5	4.0	5.0	000.2979064
4.5	1.5	3.0	0.5	5.0	4.5	1.5	6.0	0.5	4.0	7.0	000.8387553
4.5	1.5	3.0	0.5	5.0	4.5	1.5	6.0	0.5	4.0	9.0	002.9099233
4.5	1.5	3.0	1.5	3.0	0.5	0.5	1.0	1.5	1.0	4.0	000.1912585
4.5	1.5	3.0	1.5	3.0	0.5	1.5	1.0	1.5	1.0	4.0	-000.9466809
4.5	1.5	3.0	1.5	3.0	0.5	1.5	2.0	1.5	2.0	5.0	-000.8989330
4.5	1.5	3.0	1.5	3.0	1.5	0.5	1.0	1.5	1.0	4.0	000.3326466
4.5	1.5	3.0	1.5	3.0	1.5	0.5	1.0	1.5	3.0	4.0	-000.0907217
4.5	1.5	3.0	1.5	3.0	1.5	0.5	2.0	1.5	0.0	3.0	-000.2969569
4.5	1.5	3.0	1.5	3.0	1.5	0.5	2.0	1.5	2.0	3.0	000.0989854
4.5	1.5	3.0	1.5	3.0	1.5	0.5	2.0	1.5	2.0	5.0	000.3995258
4.5	1.5	3.0	1.5	3.0	1.5	1.5	0.0	1.5	0.0	3.0	-001.3363062
4.5	1.5	3.0	1.5	3.0	1.5	1.5	0.0	1.5	2.0	3.0	000.4454352
4.5	1.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	1.0	4.0	-000.8182027
4.5	1.5	3.0	1.5	3.0	1.5	1.5	1.0	1.5	3.0	4.0	000.2231461
4.5	1.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	0.0	3.0	000.7423922
4.5	1.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	3.0	-000.2474640
4.5	1.5	3.0	1.5	3.0	1.5	1.5	2.0	1.5	2.0	5.0	-000.9988143
4.5	1.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	1.0	4.0	000.4260065
4.5	1.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	4.0	-000.1161833
4.5	1.5	3.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	6.0	-001.4824225

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	3.0 1.5 3.0 2.5 0.5	2.0	1.5 2.0 3.0	000.5820101
4.5	1.5	3.0 1.5 3.0 2.5 0.5	2.0	1.5 2.0 5.0	000.3470274
4.5	1.5	3.0 1.5 3.0 2.5 0.5	2.0	1.5 4.0 3.0	-000.0648010
4.5	1.5	3.0 1.5 3.0 2.5 0.5	2.0	1.5 4.0 5.0	-000.1634693
4.5	1.5	3.0 1.5 3.0 2.5 0.5	3.0	1.5 1.0 2.0	-000.3888076
4.5	1.5	3.0 1.5 3.0 2.5 0.5	3.0	1.5 1.0 4.0	-000.2857141
4.5	1.5	3.0 1.5 3.0 2.5 0.5	3.0	1.5 3.0 2.0	000.0529103
4.5	1.5	3.0 1.5 3.0 2.5 0.5	3.0	1.5 3.0 4.0	000.2863036
4.5	1.5	3.0 1.5 3.0 2.5 0.5	3.0	1.5 3.0 6.0	000.5524661
4.5	1.5	3.0 1.5 3.0 2.5 1.5	1.0	1.5 1.0 2.0	-001.9166294
4.5	1.5	3.0 1.5 3.0 2.5 1.5	1.0	1.5 1.0 4.0	-000.1912680
4.5	1.5	3.0 1.5 3.0 2.5 1.5	1.0	1.5 3.0 2.0	000.2608198
4.5	1.5	3.0 1.5 3.0 2.5 1.5	1.0	1.5 3.0 4.0	000.1916629
4.5	1.5	3.0 1.5 3.0 2.5 1.5	2.0	1.5 2.0 3.0	-000.7777442
4.5	1.5	3.0 1.5 3.0 2.5 1.5	2.0	1.5 2.0 5.0	-000.4637354
4.5	1.5	3.0 1.5 3.0 2.5 1.5	2.0	1.5 4.0 3.0	000.0865936
4.5	1.5	3.0 1.5 3.0 2.5 1.5	2.0	1.5 4.0 5.0	000.2184456
4.5	1.5	3.0 1.5 3.0 2.5 1.5	3.0	1.5 1.0 2.0	000.6955207
4.5	1.5	3.0 1.5 3.0 2.5 1.5	3.0	1.5 1.0 4.0	000.5111016
4.5	1.5	3.0 1.5 3.0 2.5 1.5	3.0	1.5 3.0 2.0	-000.0946480
4.5	1.5	3.0 1.5 3.0 2.5 1.5	3.0	1.5 3.0 4.0	-000.5121562
4.5	1.5	3.0 1.5 3.0 2.5 1.5	3.0	1.5 3.0 6.0	-000.9882810
4.5	1.5	3.0 1.5 3.0 2.5 1.5	4.0	1.5 2.0 3.0	000.2078251
4.5	1.5	3.0 1.5 3.0 2.5 1.5	4.0	1.5 2.0 5.0	000.5242680
4.5	1.5	3.0 1.5 3.0 2.5 1.5	4.0	1.5 4.0 3.0	-000.0231396
4.5	1.5	3.0 1.5 3.0 2.5 1.5	4.0	1.5 4.0 5.0	-000.2469595
4.5	1.5	3.0 1.5 3.0 2.5 1.5	4.0	1.5 4.0 7.0	-001.9306547
4.5	1.5	3.0 1.5 3.0 3.5 0.5	3.0	1.5 3.0 2.0	000.7513721

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	4.0	000.7118543
4.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	6.0	000.3566151
4.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	2.0	-000.0305469
4.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	4.0	-000.1224418
4.5	1.5	3.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	6.0	-000.2232764
4.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	1.0	-000.4199599
4.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	3.0	-000.4489563
4.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	5.0	-000.2831375
4.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	1.0	000.0208669
4.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	3.0	000.1642735
4.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	5.0	000.4383097
4.5	1.5	3.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	7.0	000.6768532
4.5	1.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	1.0	-002.1428568
4.5	1.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	3.0	-000.3110979
4.5	1.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	5.0	-000.0463736
4.5	1.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	1.0	000.1064799
4.5	1.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	3.0	000.1138308
4.5	1.5	3.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	5.0	000.0717885
4.5	1.5	3.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	2.0	-000.6507075
4.5	1.5	3.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	4.0	-000.6164843
4.5	1.5	3.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	6.0	-000.3088364
4.5	1.5	3.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	2.0	000.0264549
4.5	1.5	3.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	4.0	000.1060378
4.5	1.5	3.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	6.0	000.1933632
4.5	1.5	3.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	1.0	000.6033827
4.5	1.5	3.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	3.0	000.6450433
4.5	1.5	3.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	5.0	000.4068001
4.5	1.5	3.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	1.0	-000.0299820

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.5	<u>1.5</u>	<u>3.0</u> - <u>1.5</u>	<u>3.0</u> <u>3.5</u>	1.5	4.0	1.5	-000.2360212
4.5	1.5	3.0	1.5	3.0	3.5	1.5	-000.6297460
4.5	1.5	3.0	1.5	3.0	3.5	1.5	-000.9724781
4.5	1.5	3.0	<u>1.5</u> <u>3.0</u>	<u>3.5</u> <u>1.5</u>	5.0	1.5	000.0793647
4.5	1.5	3.0	1.5	3.0	3.5	1.5	000.3181153
4.5	1.5	3.0	1.5	3.0	3.5	1.5	000.5800895
4.5	1.5	3.0	1.5	3.0	3.5	1.5	-000.0032254
4.5	1.5	3.0	1.5	3.0	3.5	1.5	-000.0547180
4.5	1.5	3.0	1.5	3.0	3.5	1.5	-000.3631936
4.5	1.5	3.0	1.5	3.0	3.5	1.5	-002.3031181
4.5	1.5	3.0	1.5	3.0	4.5	0.5	000.8189191
4.5	1.5	3.0	1.5	3.0	4.5	0.5	000.9523360
4.5	1.5	3.0	1.5	3.0	4.5	0.5	000.7818411
4.5	1.5	3.0	1.5	3.0	4.5	0.5	000.3665155
4.5	1.5	3.0	1.5	3.0	4.5	0.5	-000.0575552
4.5	1.5	<u>3.0</u> - <u>1.5</u>	3.0	4.5	0.5	4.0	-000.1719952
4.5	1.5	3.0	1.5	3.0	4.5	0.5	-000.2744103
4.5	1.5	3.0	1.5	3.0	4.5	0.5	-000.4781460
4.5	1.5	3.0	1.5	<u>3.0</u> <u>4.5</u>	0.5	5.0	-000.4791328
4.5	1.5	3.0	1.5	3.0	4.5	0.5	-000.2852927
4.5	1.5	3.0	1.5	3.0	4.5	0.5	000.0614731
4.5	1.5	3.0	1.5	3.0	<u>4.5</u> 0.5	5.0	000.2606127
4.5	1.5	3.0	1.5	3.0	4.5	0.5	000.5648486
4.5	1.5	3.0	1.5	3.0	4.5	0.5	000.7835347
4.5	1.5	3.0	1.5	3.0	4.5	1.5	000.0000000
4.5	1.5	3.0	1.5	3.0	4.5	1.5	000.0000000
4.5	1.5	3.0	1.5	3.0	4.5	1.5	000.0000000
4.5	1.5	3.0	1.5	3.0	4.5	1.5	000.0000000

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	3.0	1.5	3.0	4.5	1.5	3.0	1.5	5.0	4.0	000.0000000
4.5	1.5	3.0	1.5	3.0	4.5	1.5	3.0	1.5	5.0	6.0	000.0000000
4.5	1.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	1.0	-000.4938268
4.5	1.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	3.0	-000.5742803
4.5	1.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	5.0	-000.4714693
4.5	1.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	4.0	7.0	-000.2210166
4.5	1.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	3.0	000.0347085
4.5	1.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	5.0	000.1077166
4.5	1.5	3.0	1.5	3.0	4.5	1.5	4.0	1.5	6.0	7.0	000.1654740
4.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	2.0	000.5856064
4.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	4.0	000.5868152
4.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	3.0	6.0	000.3494086
4.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	2.0	-000.0752875
4.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	4.0	-000.3191866
4.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	6.0	-000.6917957
4.5	1.5	3.0	1.5	3.0	4.5	1.5	5.0	1.5	5.0	8.0	-000.9596294
4.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	3.0	000.1301507
4.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	5.0	000.3889409
4.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	4.0	7.0	000.6205367
4.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	3.0	-000.0078660
4.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	5.0	-000.0855618
4.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	7.0	-000.4645950
4.5	1.5	3.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	9.0	-002.6267041
4.5	1.5	3.0	1.5	5.0	0.5	0.5	1.0	1.5	1.0	4.0	-000.1352401
4.5	1.5	3.0	1.5	5.0	0.5	1.5	1.0	1.5	1.0	4.0	000.6694046
4.5	1.5	3.0	1.5	5.0	0.5	1.5	2.0	1.5	2.0	5.0	000.6356416
4.5	1.5	3.0	1.5	5.0	1.5	0.5	1.0	1.5	1.0	4.0	000.3421332
4.5	1.5	3.0	1.5	5.0	1.5	0.5	1.0	1.5	3.0	4.0	000.2566001

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	1.0	1.5	5.0	1.5	0.5	2.0	1.5	0.0	5.0	000.4237611
4.5	1.5	3.0	1.5	5.0	1.5	0.5	2.0	1.5	2.0	3.0	-000.2799737
4.5	1.5	3.0	1.5	5.0	1.5	0.5	2.0	1.5	2.0	5.0	000.1412534
4.5	1.5	3.0	1.5	5.0	1.5	1.5	0.0	1.5	2.0	3.0	-001.2598815
4.5	1.5	3.0	1.5	5.0	1.5	1.5	1.0	1.5	1.0	4.0	-000.8415369
4.5	1.5	3.0	1.5	5.0	1.5	1.5	1.0	1.5	3.0	4.0	-000.6311524
4.5	1.5	3.0	1.5	5.0	1.5	1.5	2.0	1.5	0.0	5.0	-001.0594027
4.5	1.5	3.0	1.5	5.0	1.5	1.5	2.0	1.5	2.0	3.0	000.6999340
4.5	1.5	3.0	1.5	5.0	1.5	1.5	2.0	1.5	2.0	5.0	-000.3531341
4.5	1.5	3.0	1.5	5.0	1.5	1.5	3.0	1.5	1.0	4.0	000.4381557
4.5	1.5	3.0	1.5	5.0	1.5	1.5	3.0	1.5	1.0	6.0	-000.9434081
4.5	1.5	3.0	1.5	5.0	1.5	1.5	3.0	1.5	3.0	4.0	000.3286165
4.5	1.5	3.0	1.5	5.0	1.5	1.5	3.0	1.5	3.0	6.0	000.7337614
4.5	1.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	2.0	3.0	000.5986084
4.5	1.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	2.0	5.0	000.2642613
4.5	1.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	4.0	3.0	000.4582137
4.5	1.5	3.0	1.5	5.0	2.5	0.5	2.0	1.5	4.0	5.0	000.3236529
4.5	1.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	1.0	4.0	000.2571294
4.5	1.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	1.0	6.0	000.5741398
4.5	1.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	2.0	-000.3741302
4.5	1.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	4.0	-000.1349643
4.5	1.5	3.0	1.5	5.0	2.5	0.5	3.0	1.5	3.0	6.0	000.3125216
4.5	1.5	3.0	1.5	5.0	2.5	1.5	1.0	1.5	1.0	4.0	000.1721326
4.5	1.5	3.0	1.5	5.0	2.5	1.5	1.0	1.5	3.0	2.0	-001.8442775
4.5	1.5	3.0	1.5	5.0	2.5	1.5	1.0	1.5	3.0	4.0	-000.0903504
4.5	1.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	2.0	3.0	-000.7999251
4.5	1.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	2.0	5.0	-000.3531348
4.5	1.5	3.0	1.5	5.0	2.5	1.5	2.0	1.5	4.0	3.0	-000.6123135

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	3.0 1.5 5.0	2.5 1.5 2.0	1.5 4.0 5.0	-000.4324983
4.5	1.5	3.0 1.5 5.0	2.5 1.5 3.0	1.5 1.0 4.0	-000.4599670
4.5	1.5	3.0 1.5 5.0	2.5 1.5 3.0	1.5 1.0 6.0	-001.0270518
4.5	1.5	3.0 1.5 5.0	2.5 1.5 3.0	1.5 3.0 2.0	000.6692649
4.5	1.5	3.0 1.5 5.0	2.5 1.5 3.0	1.5 3.0 4.0	000.2414317
4.5	1.5	3.0 1.5 5.0	2.5 1.5 3.0	1.5 3.0 6.0	-000.5590557
4.5	1.5	3.0 1.5 5.0	2.5 1.5 4.0	1.5 2.0 3.0	000.2137535
4.5	1.5	3.0 1.5 5.0	2.5 1.5 4.0	1.5 2.0 5.0	000.3992296
4.5	1.5	3.0 1.5 5.0	2.5 1.5 4.0	1.5 2.0 7.0	-001.4331392
4.5	1.5	3.0 1.5 5.0	2.5 1.5 4.0	1.5 4.0 3.0	000.1636197
4.5	1.5	3.0 1.5 5.0	2.5 1.5 4.0	1.5 4.0 5.0	000.4889544
4.5	1.5	3.0 1.5 5.0	2.5 1.5 4.0	1.5 4.0 7.0	000.7801018
4.5	1.5	3.0 1.5 5.0	3.5 0.5 3.0	1.5 3.0 2.0	000.7728002
4.5	1.5	3.0 1.5 5.0	3.5 0.5 3.0	1.5 3.0 4.0	000.6582363
4.5	1.5	3.0 1.5 5.0	3.5 0.5 3.0	1.5 3.0 6.0	000.2017319
4.5	1.5	3.0 1.5 5.0	3.5 0.5 3.0	1.5 5.0 2.0	000.0549829
4.5	1.5	3.0 1.5 5.0	3.5 0.5 3.0	1.5 5.0 4.0	000.0550965
4.5	1.5	3.0 1.5 5.0	3.5 0.5 3.0	1.5 5.0 6.0	000.0328063
4.5	1.5	3.0 1.5 5.0	3.5 0.5 4.0	1.5 2.0 3.0	000.1443004
4.5	1.5	3.0 1.5 5.0	3.5 0.5 4.0	1.5 2.0 5.0	000.4312175
4.5	1.5	3.0 1.5 5.0	3.5 0.5 4.0	1.5 2.0 7.0	000.6879861
4.5	1.5	3.0 1.5 5.0	3.5 0.5 4.0	1.5 4.0 1.0	-000.4131653
4.5	1.5	3.0 1.5 5.0	3.5 0.5 4.0	1.5 4.0 3.0	-000.3484779
4.5	1.5	3.0 1.5 5.0	3.5 0.5 4.0	1.5 4.0 5.0	000.0000000
4.5	1.5	3.0 1.5 5.0	3.5 0.5 4.0	1.5 4.0 7.0	000.4444216
4.5	1.5	3.0 1.5 5.0	3.5 1.5 2.0	1.5 2.0 3.0	000.0999897
4.5	1.5	3.0 1.5 5.0	3.5 1.5 2.0	1.5 2.0 5.0	000.0706265
4.5	1.5	3.0 1.5 5.0	3.5 1.5 2.0	1.5 4.0 1.0	-002.1081841

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
4.5	1.5	2.0	1.5	5.0	3.5	1.5	2.0	1.5	4.0	3.0	-000.2414715
4.5	1.5	3.0	1.5	5.0	3.5	1.5	2.0	1.5	4.0	5.0	000.0000000
4.5	1.5	4.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	2.0	-000.6692644
4.5	1.5	3.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	4.0	-000.5700492
4.5	1.5	2.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	6.0	-000.1747038
4.5	1.5	3.0	1.5	5.0	3.5	1.5	2.0	1.5	5.0	2.0	-000.0476166
4.5	1.5	3.0	1.5	5.0	3.5	1.5	3.0	1.5	5.0	4.0	-000.0477149
4.5	1.5	3.0	1.5	5.0	3.5	1.5	3.0	1.5	5.0	6.0	-000.0284110
4.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	3.0	-000.2073246
4.5	1.5	2.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	5.0	-000.6195571
4.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	7.0	-000.9884711
4.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	1.0	000.5936192
4.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	3.0	000.5006793
4.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	5.0	000.0000000
4.5	1.5	3.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	7.0	-000.6385273
4.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	2.0	000.0816274
4.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	4.0	000.2941548
4.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	6.0	000.3281481
4.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	8.0	-001.8207728
4.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	2.0	000.0058075
4.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	4.0	000.0246216
4.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	6.0	000.0533644
4.5	1.5	3.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	8.0	000.0740248
4.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	1.0	000.8422746
4.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	3.0	000.9324038
4.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	5.0	000.6634145
4.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	7.0	000.1524506
4.5	1.5	4.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	1.0	000.1097220

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	3.0	000.1306268
4.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	5.0	000.1138071
4.5	1.5	3.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	7.0	000.0635505
4.5	1.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	2.0	000.0614731
4.5	1.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	4.0	000.2606127
4.5	1.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	6.0	000.5648486
4.5	1.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	3.0	8.0	000.7835347
4.5	1.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	2.0	-000.0395161
4.5	1.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	4.0	-000.0268046
4.5	1.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	6.0	000.0103742
4.5	1.5	3.0	1.5	5.0	4.5	0.5	5.0	1.5	5.0	8.0	000.0503676
4.5	1.5	3.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	2.0	000.0000000
4.5	1.5	3.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	4.0	000.0000000
4.5	1.5	3.0	1.5	5.0	4.5	1.5	3.0	1.5	3.0	6.0	000.0000000
4.5	1.5	3.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	2.0	000.0000000
4.5	1.5	3.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	4.0	000.0000000
4.5	1.5	3.0	1.5	5.0	4.5	1.5	3.0	1.5	5.0	6.0	000.0000000
4.5	1.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	1.0	-000.5079114
4.5	1.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	3.0	-000.5622618
4.5	1.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	5.0	-000.4000541
4.5	1.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	4.0	7.0	-000.0919297
4.5	1.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	1.0	-000.0661650
4.5	1.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	3.0	-000.0787711
4.5	1.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	5.0	-000.0686283
4.5	1.5	3.0	1.5	5.0	4.5	1.5	4.0	1.5	6.0	7.0	-000.0383221
4.5	1.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	2.0	-000.0752875
4.5	1.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	4.0	-000.3191866
4.5	1.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	6.0	-000.6917957

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	3.0	8.0	-000.9596294
4.5	1.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	2.0	000.0483971
4.5	1.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	4.0	000.0328289
4.5	1.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	6.0	-000.0127058
4.5	1.5	3.0	1.5	5.0	4.5	1.5	5.0	1.5	5.0	8.0	-000.0616873
4.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	3.0	000.1274301
4.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	5.0	000.3300259
4.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	7.0	000.2581063
4.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	4.0	9.0	-002.1491204
4.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	3.0	000.0178527
4.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	5.0	000.0566150
4.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	7.0	000.1075951
4.5	1.5	3.0	1.5	5.0	4.5	1.5	6.0	1.5	6.0	9.0	000.1382530
4.5	1.5	4.0	0.5	4.0	0.5	0.5	0.0	0.5	0.0	4.0	-001.3456223
4.5	1.5	4.0	0.5	4.0	0.5	0.5	1.0	0.5	1.0	5.0	-001.0841541
4.5	1.5	4.0	0.5	4.0	0.5	1.5	1.0	0.5	1.0	5.0	000.1916531
4.5	1.5	4.0	0.5	4.0	0.5	1.5	2.0	0.5	0.0	4.0	000.4324993
4.5	1.5	4.0	0.5	4.0	1.5	0.5	1.0	0.5	1.0	3.0	-001.9697893
4.5	1.5	4.0	0.5	4.0	1.5	0.5	1.0	0.5	1.0	5.0	-000.9034618
4.5	1.5	4.0	0.5	4.0	1.5	0.5	2.0	0.5	2.0	4.0	-000.2557793
4.5	1.5	4.0	0.5	4.0	1.5	0.5	2.0	0.5	2.0	6.0	-001.6090823
4.5	1.5	4.0	0.5	4.0	1.5	1.5	0.0	0.5	2.0	4.0	-000.0611643
4.5	1.5	4.0	0.5	4.0	1.5	1.5	1.0	0.5	1.0	3.0	-000.4404581
4.5	1.5	4.0	0.5	4.0	1.5	1.5	1.0	0.5	1.0	5.0	000.1616160
4.5	1.5	4.0	0.5	4.0	1.5	1.5	2.0	0.5	2.0	4.0	-000.2724610
4.5	1.5	4.0	0.5	4.0	1.5	1.5	2.0	0.5	2.0	6.0	000.4022705
4.5	1.5	4.0	0.5	4.0	1.5	1.5	3.0	0.5	1.0	3.0	000.5205417
4.5	1.5	4.0	0.5	4.0	1.5	1.5	3.0	0.5	1.0	5.0	000.5252527

J_1 , S''	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
4.5	1.5	4.0 0.5	4.0 2.5 0.5	2.0 0.5 2.0 2.0	-002.3543484
4.5	1.5	4.0 0.5	4.0 2.5 0.5	2.0 0.5 2.0 4.0	-001.2296479
4.5	1.5	4.0 0.5	4.0 2.5 0.5	2.0 0.5 2.0 6.0	-000.8492375
4.5	1.5	4.0 0.5	4.0 2.5 0.5	3.0 0.5 3.0 3.0	000.0162788
4.5	1.5	4.0 0.5	4.0 2.5 0.5	3.0 0.5 3.0 5.0	-000.3474851
4.5	1.5	4.0 0.5	4.0 2.5 0.5	3.0 0.5 3.0 7.0	-001.9958209
4.5	1.5	4.0 0.5	4.0 2.5 1.5	1.0 0.5 3.0 3.0	000.0980819
4.5	1.5	4.0 0.5	4.0 2.5 1.5	1.0 0.5 3.0 5.0	000.0989688
4.5	1.5	4.0 0.5	4.0 2.5 1.5	2.0 0.5 2.0 2.0	-000.6292264
4.5	1.5	4.0 0.5	4.0 2.5 1.5	2.0 0.5 2.0 4.0	-000.0076421
4.5	1.5	4.0 0.5	4.0 2.5 1.5	2.0 0.5 2.0 6.0	000.0955649
4.5	1.5	4.0 0.5	4.0 2.5 1.5	3.0 0.5 3.0 3.0	-000.3348929
4.5	1.5	4.0 0.5	4.0 2.5 1.5	3.0 0.5 3.0 5.0	-000.2362077
4.5	1.5	4.0 0.5	4.0 2.5 1.5	3.0 0.5 3.0 7.0	000.5578479
4.5	1.5	4.0 0.5	4.0 2.5 1.5	4.0 0.5 2.0 2.0	000.5604667
4.5	1.5	4.0 0.5	4.0 2.5 1.5	4.0 0.5 2.0 4.0	000.6739473
4.5	1.5	4.0 0.5	4.0 2.5 1.5	4.0 0.5 2.0 6.0	000.5852166
4.5	1.5	4.0 0.5	4.0 3.5 0.5	3.0 0.5 3.0 1.0	-002.4567594
4.5	1.5	4.0 0.5	4.0 3.5 0.5	3.0 0.5 3.0 3.0	-001.2697813
4.5	1.5	4.0 0.5	4.0 3.5 0.5	3.0 0.5 3.0 5.0	-001.1050032
4.5	1.5	4.0 0.5	4.0 3.5 0.5	3.0 0.5 3.0 7.0	-000.8500719
4.5	1.5	4.0 0.5	4.0 3.5 0.5	4.0 0.5 4.0 2.0	000.1751169
4.5	1.5	4.0 0.5	4.0 3.5 0.5	4.0 0.5 4.0 4.0	000.0593926
4.5	1.5	4.0 0.5	4.0 3.5 0.5	4.0 0.5 4.0 6.0	-000.4022693
4.5	1.5	4.0 0.5	4.0 3.5 0.5	4.0 0.5 4.0 8.0	-002.3147207
4.5	1.5	4.0 0.5	4.0 3.5 1.5	2.0 0.5 4.0 2.0	000.2022398
4.5	1.5	4.0 0.5	4.0 3.5 1.5	2.0 0.5 4.0 4.0	000.2431897
4.5	1.5	4.0 0.5	4.0 3.5 1.5	2.0 0.5 4.0 6.0	000.2111713

J_1 , S''	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
4.5 1.5	4.0 0.5	4.0 3.5 1.5	3.0 0.5	3.0 1.0	-000.7092046
4.5 1.5	4.0 0.5	4.0 3.5 1.5	3.0 0.5	3.0 3.0	-000.0845893
4.5 1.5	4.0 0.5	4.0 3.5 1.5	3.0 0.5	3.0 5.0	000.0180553
4.5 1.5	4.0 0.5	4.0 3.5 1.5	3.0 0.5	3.0 7.0	000.0426767
4.5 1.5	4.0 0.5	4.0 3.5 1.5	4.0 0.5	4.0 2.0	-000.3502673
4.5 1.5	4.0 0.5	4.0 3.5 1.5	4.0 0.5	4.0 4.0	-000.3764699
4.5 1.5	4.0 0.5	4.0 3.5 1.5	4.0 0.5	4.0 6.0	-000.1926556
4.5 1.5	4.0 0.5	4.0 3.5 1.5	4.0 0.5	4.0 8.0	000.6847027
4.5 1.5	4.0 0.5	4.0 3.5 1.5	5.0 0.5	3.0 1.0	000.5478316
4.5 1.5	4.0 0.5	4.0 3.5 1.5	5.0 0.5	3.0 3.0	000.7187606
4.5 1.5	4.0 0.5	4.0 3.5 1.5	5.0 0.5	3.0 5.0	000.7671082
4.5 1.5	4.0 0.5	4.0 3.5 1.5	5.0 0.5	3.0 7.0	000.6346051
4.5 1.5	4.0 0.5	4.0 4.5 0.5	4.0 0.5	4.0 2.0	-000.8172113
4.5 1.5	4.0 0.5	4.0 4.5 0.5	4.0 0.5	4.0 4.0	-001.0393720
4.5 1.5	4.0 0.5	4.0 4.5 0.5	4.0 0.5	4.0 6.0	-001.0727202
4.5 1.5	4.0 0.5	4.0 4.5 0.5	4.0 0.5	4.0 8.0	-000.8680193
4.5 1.5	4.0 0.5	4.0 4.5 0.5	5.0 0.5	5.0 1.0	000.2639499
4.5 1.5	4.0 0.5	4.0 4.5 0.5	5.0 0.5	5.0 3.0	000.2779982
4.5 1.5	4.0 0.5	4.0 4.5 0.5	5.0 0.5	5.0 5.0	000.1042437
4.5 1.5	4.0 0.5	4.0 4.5 0.5	5.0 0.5	5.0 7.0	-000.4413417
4.5 1.5	4.0 0.5	4.0 4.5 0.5	5.0 0.5	5.0 9.0	-002.5919383
4.5 1.5	4.0 0.5	4.0 4.5 1.5	3.0 0.5	5.0 1.0	000.2578902
4.5 1.5	4.0 0.5	4.0 4.5 1.5	3.0 0.5	5.0 3.0	000.3383560
4.5 1.5	4.0 0.5	4.0 4.5 1.5	3.0 0.5	5.0 5.0	000.3611165
4.5 1.5	4.0 0.5	4.0 4.5 1.5	3.0 0.5	5.0 7.0	000.2987391
4.5 1.5	4.0 0.5	4.0 4.5 1.5	4.0 0.5	4.0 2.0	000.0000000
4.5 1.5	4.0 0.5	4.0 4.5 1.5	4.0 0.5	4.0 4.0	000.0000000
4.5 1.5	4.0 0.5	4.0 4.5 1.5	4.0 0.5	4.0 6.0	000.0000000

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	4.0 0.5	4.0 4.5 1.5	4.0 0.5 4.0 8.0	000.0000000
4.5	1.5	4.0 0.5	4.0 4.5 1.5	5.0 0.5 5.0 1.0	-000.3315589
4.5	1.5	4.0 0.5	4.0 4.5 1.5	5.0 0.5 5.0 3.0	-000.4140932
4.5	1.5	4.0 0.5	4.0 4.5 1.5	5.0 0.5 5.0 5.0	-000.3830231
4.5	1.5	4.0 0.5	4.0 4.5 1.5	5.0 0.5 5.0 7.0	-000.1553231
4.5	1.5	4.0 0.5	4.0 4.5 1.5	5.0 0.5 5.0 9.0	000.7936157
4.5	1.5	4.0 0.5	4.0 4.5 1.5	6.0 0.5 4.0 2.0	000.0482326
4.5	1.5	4.0 0.5	4.0 4.5 1.5	6.0 0.5 4.0 4.0	000.0613445
4.5	1.5	4.0 0.5	4.0 4.5 1.5	6.0 0.5 4.0 6.0	000.0633128
4.5	1.5	4.0 0.5	4.0 4.5 1.5	6.0 0.5 4.0 8.0	000.0512313
4.5	1.5	4.0 1.5	4.0 0.5 0.5	0.0 1.5 2.0 4.0	000.5737753
4.5	1.5	4.0 1.5	4.0 0.5 0.5	1.0 1.5 1.0 5.0	000.4622848
4.5	1.5	4.0 1.5	4.0 0.5 1.5	1.0 1.5 1.0 5.0	-000.0817210
4.5	1.5	4.0 1.5	4.0 0.5 1.5	2.0 1.5 2.0 4.0	-000.1844183
4.5	1.5	4.0 1.5	4.0 1.5 0.5	1.0 1.5 1.0 3.0	-001.4608348
4.5	1.5	4.0 1.5	4.0 1.5 0.5	1.0 1.5 1.0 5.0	000.9745820
4.5	1.5	4.0 1.5	4.0 1.5 0.5	1.0 1.5 3.0 3.0	000.3984094
4.5	1.5	4.0 1.5	4.0 1.5 0.5	1.0 1.5 3.0 5.0	000.7309363
4.5	1.5	4.0 1.5	4.0 1.5 0.5	2.0 1.5 0.0 4.0	-000.4241621
4.5	1.5	4.0 1.5	4.0 1.5 0.5	2.0 1.5 2.0 4.0	-000.2699210
4.5	1.5	4.0 1.5	4.0 1.5 0.5	2.0 1.5 2.0 6.0	000.9703132
4.5	1.5	4.0 1.5	4.0 1.5 1.5	0.0 1.5 0.0 4.0	-000.1014300
4.5	1.5	4.0 1.5	4.0 1.5 1.5	0.0 1.5 2.0 4.0	-000.0645462
4.5	1.5	4.0 1.5	4.0 1.5 1.5	1.0 1.5 1.0 3.0	-000.3266525
4.5	1.5	4.0 1.5	4.0 1.5 1.5	1.0 1.5 1.0 5.0	-000.1743384
4.5	1.5	4.0 1.5	4.0 1.5 1.5	1.0 1.5 3.0 3.0	000.0890873
4.5	1.5	4.0 1.5	4.0 1.5 1.5	1.0 1.5 3.0 5.0	-000.1307534
4.5	1.5	4.0 1.5	4.0 1.5 1.5	2.0 1.5 0.0 4.0	-000.4518249

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	4.0	1.5	4.0	1.5	2.0	1.5	2.0	4.0	-000.2875248	
4.5	1.5	4.0	1.5	4.0	1.5	2.0	1.5	2.0	6.0	-000.2425781	
4.5	1.5	4.0	1.5	4.0	1.5	3.0	1.5	1.0	3.0	000.3860441	
4.5	1.5	4.0	1.5	4.0	1.5	3.0	1.5	1.0	5.0	-000.5666001	
4.5	1.5	4.0	1.5	4.0	1.5	3.0	1.5	3.0	3.0	-000.1052846	
4.5	1.5	4.0	1.5	4.0	1.5	3.0	1.5	3.0	5.0	-000.4249496	
4.5	1.5	4.0	1.5	4.0	2.5	0.5	2.0	1.5	2.0	2.0	-002.0869070
4.5	1.5	4.0	1.5	4.0	2.5	0.5	2.0	1.5	2.0	4.0	-000.0495442
4.5	1.5	4.0	1.5	4.0	2.5	0.5	2.0	1.5	2.0	6.0	001.0949363
4.5	1.5	4.0	1.5	4.0	2.5	0.5	2.0	1.5	4.0	2.0	000.2323569
4.5	1.5	4.0	1.5	4.0	2.5	0.5	2.0	1.5	4.0	4.0	000.5461072
4.5	1.5	4.0	1.5	4.0	2.5	0.5	2.0	1.5	4.0	6.0	000.8381355
4.5	1.5	4.0	1.5	4.0	2.5	0.5	3.0	1.5	1.0	3.0	000.0295723
4.5	1.5	4.0	1.5	4.0	2.5	0.5	3.0	1.5	1.0	5.0	-000.3730042
4.5	1.5	4.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	3.0	000.0252436
4.5	1.5	4.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	5.0	-000.2225608
4.5	1.5	4.0	1.5	4.0	2.5	0.5	3.0	1.5	3.0	7.0	001.3455826
4.5	1.5	4.0	1.5	4.0	2.5	1.5	1.0	1.5	1.0	3.0	000.1781741
4.5	1.5	4.0	1.5	4.0	2.5	1.5	1.0	1.5	1.0	5.0	000.1062370
4.5	1.5	4.0	1.5	4.0	2.5	1.5	1.0	1.5	3.0	3.0	000.1520913
4.5	1.5	4.0	1.5	4.0	2.5	1.5	1.0	1.5	3.0	5.0	000.0633881
4.5	1.5	4.0	1.5	4.0	2.5	1.5	2.0	1.5	2.0	2.0	-000.5577487
4.5	1.5	4.0	1.5	4.0	2.5	1.5	2.0	1.5	2.0	4.0	-000.0003078
4.5	1.5	4.0	1.5	4.0	2.5	1.5	2.0	1.5	2.0	6.0	-000.1232140
4.5	1.5	4.0	1.5	4.0	2.5	1.5	2.0	1.5	4.0	2.0	000.0620986
4.5	1.5	4.0	1.5	4.0	2.5	1.5	2.0	1.5	4.0	4.0	000.0033935
4.5	1.5	4.0	1.5	4.0	2.5	1.5	2.0	1.5	4.0	6.0	-000.0943150
4.5	1.5	4.0	1.5	4.0	2.5	1.5	3.0	1.5	1.0	3.0	-000.6083653

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5.	1.5	4.0	1.5	4.0	2.5	1.5	3.0	1.5	1.0	5.0	-000.2535555
4.5	1.5	4.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	3.0	-000.5193070
4.5	1.5	4.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	5.0	-000.1512877
4.5	1.5	4.0	1.5	4.0	2.5	1.5	3.0	1.5	3.0	7.0	-000.3761009
4.5	1.5	4.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	2.0	000.4968004
4.5	1.5	4.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	4.0	000.0271537
4.5	1.5	4.0	1.5	4.0	2.5	1.5	4.0	1.5	2.0	6.0	-000.7545305
4.5	1.5	4.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	2.0	-000.0553146
4.5	1.5	4.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	4.0	-000.2993118
4.5	1.5	4.0	1.5	4.0	2.5	1.5	4.0	1.5	4.0	6.0	-000.5775663
4.5	1.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	1.0	-002.3521671
4.5	1.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	3.0	-000.6631211
4.5	1.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	5.0	000.2885339
4.5	1.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	3.0	7.0	001.1838277
4.5	1.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	1.0	000.0956291
4.5	1.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	3.0	000.2965569
4.5	1.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	5.0	000.6451813
4.5	1.5	4.0	1.5	4.0	3.5	0.5	3.0	1.5	5.0	7.0	000.9264916
4.5	1.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	2.0	000.3292802
4.5	1.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	4.0	000.0879894
4.5	1.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	2.0	6.0	-000.3438224
4.5	1.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	2.0	000.3168287
4.5	1.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	4.0	000.0756735
4.5	1.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	6.0	-000.1742628
4.5	1.5	4.0	1.5	4.0	3.5	0.5	4.0	1.5	4.0	8.0	001.6515676
4.5	1.5	4.0	1.5	4.0	3.5	1.5	2.0	1.5	2.0	2.0	000.3802838
4.5	1.5	4.0	1.5	4.0	3.5	1.5	2.0	1.5	2.0	4.0	000.3602822
4.5	1.5	4.0	1.5	4.0	3.5	1.5	2.0	1.5	2.0	6.0	000.1804896

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	4.0 1.5 4.0 3.5 1.5	2.0	1.5 4.0 2.0	000.3659041
4.5	1.5	4.0 1.5 4.0 3.5 1.5	2.0	1.5 4.0 4.0	000.3098520
4.5	1.5	4.0 1.5 4.0 3.5 1.5	2.0	1.5 4.0 6.0	000.0914784
4.5	1.5	4.0 1.5 4.0 3.5 1.5	3.0	1.5 3.0 1.0	-000.6790110

J_1 , S"	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
4.5	1.5	4.0 1.5	4.0 3.5	1.5 3.0	-000.0441746
4.5	1.5	4.0 1.5	4.0 3.5	1.5 3.0 5.0	-000.0047134
4.5	1.5	4.0 1.5	4.0 3.5	1.5 3.0 7.0	-000.0594337
4.5	1.5	4.0 1.5	4.0 3.5	1.5 3.0 1.0	000.0276045
4.5	1.5	4.0 1.5	4.0 3.5	1.5 3.0 3.0	000.0197550
4.5	1.5	4.0 1.5	4.0 3.5	1.5 3.0 5.0	-000.0105409
4.5	1.5	4.0 1.5	4.0 3.5	1.5 3.0 7.0	-000.0465129
4.5	1.5	4.0 1.5	4.0 3.5	1.5 4.0 2.0	-000.6586273
4.5	1.5	4.0 1.5	4.0 3.5	1.5 4.0 4.0	-000.5577345
4.5	1.5	4.0 1.5	4.0 3.5	1.5 4.0 6.0	-000.1646631
4.5	1.5	4.0 1.5	4.0 3.5	1.5 4.0 2.0	-000.6337207
4.5	1.5	4.0 1.5	4.0 3.5	1.5 4.0 4.0	-000.4796652
4.5	1.5	4.0 1.5	4.0 3.5	1.5 4.0 6.0	-000.0834572
4.5	1.5	4.0 1.5	4.0 3.5	1.5 4.0 8.0	-000.4885402
4.5	1.5	4.0 1.5	4.0 3.5	1.5 5.0 1.0	000.5245081
4.5	1.5	4.0 1.5	4.0 3.5	1.5 5.0 3.0	000.3753610
4.5	1.5	4.0 1.5	4.0 3.5	1.5 5.0 5.0	-000.2003051
4.5	1.5	4.0 1.5	4.0 3.5	1.5 5.0 7.0	-000.8837633
4.5	1.5	4.0 1.5	4.0 3.5	1.5 5.0 1.0	-000.0213238
4.5	1.5	4.0 1.5	4.0 3.5	1.5 5.0 3.0	-000.1678660
4.5	1.5	4.0 1.5	4.0 3.5	1.5 5.0 5.0	-000.4478950
4.5	1.5	4.0 1.5	4.0 3.5	1.5 5.0 7.0	-000.6916536
4.5	1.5	4.0 1.5	4.0 4.5	0.5 4.0 2.0	-000.6500534
4.5	1.5	4.0 1.5	4.0 4.5	0.5 4.0 4.0	-000.3307096
4.5	1.5	4.0 1.5	4.0 4.5	0.5 4.0 6.0	000.4632203
4.5	1.5	4.0 1.5	4.0 4.5	0.5 4.0 8.0	001.2625730
4.5	1.5	4.0 1.5	4.0 4.5	0.5 4.0 2.0	000.0059493
4.5	1.5	4.0 1.5	4.0 4.5	0.5 4.0 4.0	000.0252218

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	6.0	000.0546655
4.5	1.5	4.0	1.5	4.0	4.5	0.5	4.0	1.5	6.0	8.0	000.0758298
4.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	1.0	000.5054242
4.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	3.0	000.4718354
4.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	5.0	000.1360996
4.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	3.0	7.0	-000.3265171
4.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	1.0	000.5198381
4.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	3.0	000.4619620
4.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	5.0	000.1154835
4.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	7.0	-000.1358125
4.5	1.5	4.0	1.5	4.0	4.5	0.5	5.0	1.5	5.0	9.0	001.9142729
4.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	1.0	000.4938268
4.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	3.0	000.5742803
4.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	5.0	000.4714668
4.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	3.0	7.0	000.2210166
4.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	1.0	000.5079114
4.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	3.0	000.5622618
4.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	5.0	000.4000541
4.5	1.5	4.0	1.5	4.0	4.5	1.5	3.0	1.5	5.0	7.0	000.0919297
4.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	2.0	-000.0000000
4.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	4.0	000.0000000
4.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	6.0	-000.0000000
4.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	4.0	8.0	000.0000000
4.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	2.0	-000.0000000
4.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	4.0	000.0000000
4.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	6.0	-000.0000000
4.5	1.5	4.0	1.5	4.0	4.5	1.5	4.0	1.5	6.0	8.0	000.0000000
4.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	1.0	-000.6348869

J_1 , S''	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	3.0	-000.7028241
4.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	5.0	-000.5000677
4.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	3.0	7.0	-000.1149113
4.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	1.0	-000.6529921
4.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	3.0	-000.6881173
4.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	5.0	-000.4243219
4.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	7.0	-000.0477972
4.5	1.5	4.0	1.5	4.0	4.5	1.5	5.0	1.5	5.0	9.0	-000.5861236
4.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	2.0	000.0383667
4.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	4.0	000.0195186
4.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	6.0	-000.0273395
4.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	4.0	8.0	-000.0745181
4.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	2.0	-000.0003511
4.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	4.0	-000.0014886
4.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	6.0	-000.0032264
4.5	1.5	4.0	1.5	4.0	4.5	1.5	6.0	1.5	6.0	8.0	-000.0044755
4.5	1.5	4.0	1.5	6.0	0.5	0.5	0.0	1.5	2.0	4.0	-001.2171612
4.5	1.5	4.0	1.5	6.0	0.5	0.5	1.0	1.5	1.0	5.0	-000.9806544
4.5	1.5	4.0	1.5	6.0	0.5	1.5	1.0	1.5	1.0	5.0	000.1733568
4.5	1.5	4.0	1.5	6.0	0.5	1.5	2.0	1.5	2.0	4.0	000.3912102
4.5	1.5	4.0	1.5	6.0	1.5	0.5	1.0	1.5	1.0	5.0	000.7752753
4.5	1.5	4.0	1.5	6.0	1.5	0.5	1.0	1.5	3.0	3.0	-001.8781201
4.5	1.5	4.0	1.5	6.0	1.5	0.5	1.0	1.5	3.0	5.0	-000.6029917
4.5	1.5	4.0	1.5	6.0	1.5	0.5	2.0	1.5	0.0	6.0	001.2578775
4.5	1.5	4.0	1.5	6.0	1.5	0.5	2.0	1.5	2.0	4.0	-000.3271943
4.5	1.5	4.0	1.5	6.0	1.5	0.5	2.0	1.5	2.0	6.0	-000.8004676
4.5	1.5	4.0	1.5	6.0	1.5	1.5	0.0	1.5	2.0	4.0	-000.0782417
4.5	1.5	4.0	1.5	6.0	1.5	1.5	1.0	1.5	1.0	5.0	-000.1386854

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	4.0	1.5	6.0	1.5	1.5	1.0	1.5	3.0	3.0	-000.4199603
4.5	1.5	4.0	1.5	6.0	1.5	1.5	1.0	1.5	3.0	5.0	000.1078658
4.5	1.5	4.0	1.5	6.0	1.5	1.5	2.0	1.5	0.0	6.0	-000.3144691
4.5	1.5	4.0	1.5	6.0	1.5	1.5	2.0	1.5	2.0	4.0	-000.3485325
4.5	1.5	4.0	1.5	6.0	1.5	1.5	2.0	1.5	2.0	6.0	000.2001168
4.5	1.5	4.0	1.5	6.0	1.5	1.5	3.0	1.5	1.0	5.0	-000.4507274
4.5	1.5	4.0	1.5	6.0	1.5	1.5	3.0	1.5	3.0	3.0	000.4963167
4.5	1.5	4.0	1.5	6.0	1.5	1.5	3.0	1.5	3.0	5.0	000.3505653
4.5	1.5	4.0	1.5	6.0	2.5	0.5	2.0	1.5	2.0	4.0	000.4904592
4.5	1.5	4.0	1.5	6.0	2.5	0.5	2.0	1.5	2.0	6.0	000.8710164
4.5	1.5	4.0	1.5	6.0	2.5	0.5	2.0	1.5	4.0	2.0	-000.1736657
4.5	1.5	4.0	1.5	6.0	2.5	0.5	2.0	1.5	4.0	4.0	-000.0755863
4.5	1.5	4.0	1.5	6.0	2.5	0.5	2.0	1.5	4.0	6.0	-000.0357960
4.5	1.5	4.0	1.5	6.0	2.5	0.5	3.0	1.5	1.0	5.0	000.1217325
4.5	1.5	4.0	1.5	6.0	2.5	0.5	3.0	1.5	1.0	7.0	001.7091190
4.5	1.5	4.0	1.5	6.0	2.5	0.5	3.0	1.5	3.0	3.0	000.0232821
4.5	1.5	4.0	1.5	6.0	2.5	0.5	3.0	1.5	3.0	5.0	-000.3478792
4.5	1.5	4.0	1.5	6.0	2.5	0.5	3.0	1.5	3.0	7.0	-000.7611753
4.5	1.5	4.0	1.5	6.0	2.5	1.5	1.0	1.5	1.0	5.0	-000.0346714
4.5	1.5	4.0	1.5	6.0	2.5	1.5	1.0	1.5	3.0	3.0	000.1402758
4.5	1.5	4.0	1.5	6.0	2.5	1.5	1.0	1.5	3.0	5.0	000.0990812
4.5	1.5	4.0	1.5	6.0	2.5	1.5	2.0	1.5	2.0	4.0	000.0030477
4.5	1.5	4.0	1.5	6.0	2.5	1.5	2.0	1.5	2.0	6.0	-000.0980158
4.5	1.5	4.0	1.5	6.0	2.5	1.5	2.0	1.5	4.0	2.0	-000.0464141
4.5	1.5	4.0	1.5	6.0	2.5	1.5	2.0	1.5	4.0	4.0	-000.0004698
4.5	1.5	4.0	1.5	6.0	2.5	1.5	2.0	1.5	4.0	6.0	000.0040281
4.5	1.5	4.0	1.5	6.0	2.5	1.5	3.0	1.5	1.0	5.0	000.0827486
4.5	1.5	4.0	1.5	6.0	2.5	1.5	3.0	1.5	1.0	7.0	-000.4777135

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	4.0 1.5 6.0 2.5 1.5	3.0 1.5	3.0 3.0	-000.4789625
4.5	1.5	4.0 1.5 6.0 2.5 1.5	3.0 1.5	3.0 5.0	-000.2364756
4.5	1.5	4.0 1.5 6.0 2.5 1.5	3.0 1.5	3.0 7.0	000.2127539
4.5	1.5	4.0 1.5 6.0 2.5 1.5	4.0 1.5	2.0 4.0	-000.2688116
4.5	1.5	4.0 1.5 6.0 2.5 1.5	4.0 1.5	2.0 6.0	-000.6002248
4.5	1.5	4.0 1.5 6.0 2.5 1.5	4.0 1.5	4.0 2.0	000.0413420
4.5	1.5	4.0 1.5 6.0 2.5 1.5	4.0 1.5	4.0 4.0	000.0414274
4.5	1.5	4.0 1.5 6.0 2.5 1.5	4.0 1.5	4.0 6.0	000.0246674
4.5	1.5	4.0 1.5 6.0 3.5 0.5	3.0 1.5	3.0 3.0	000.2604994
4.5	1.5	4.0 1.5 6.0 3.5 0.5	3.0 1.5	3.0 5.0	000.6347428
4.5	1.5	4.0 1.5 6.0 3.5 0.5	3.0 1.5	3.0 7.0	000.9417283
4.5	1.5	4.0 1.5 6.0 3.5 0.5	3.0 1.5	5.0 1.0	-000.3986396
4.5	1.5	4.0 1.5 6.0 3.5 0.5	3.0 1.5	5.0 3.0	-000.1869603
4.5	1.5	4.0 1.5 6.0 3.5 0.5	3.0 1.5	5.0 5.0	-000.1328153
4.5	1.5	4.0 1.5 6.0 3.5 0.5	3.0 1.5	5.0 7.0	-000.0689672
4.5	1.5	4.0 1.5 6.0 3.5 0.5	4.0 1.5	2.0 4.0	-000.0111679
4.5	1.5	4.0 1.5 6.0 3.5 0.5	4.0 1.5	2.0 6.0	000.1944955
4.5	1.5	4.0 1.5 6.0 3.5 0.5	4.0 1.5	2.0 8.0	002.0517805
4.5	1.5	4.0 1.5 6.0 3.5 0.5	4.0 1.5	4.0 2.0	000.0200113
4.5	1.5	4.0 1.5 6.0 3.5 0.5	4.0 1.5	4.0 4.0	000.0056558
4.5	1.5	4.0 1.5 6.0 3.5 0.5	4.0 1.5	4.0 6.0	-000.0262680
4.5	1.5	4.0 1.5 6.0 3.5 0.5	4.0 1.5	4.0 8.0	-000.0566814
4.5	1.5	4.0 1.5 6.0 3.5 1.5	2.0 1.5	2.0 4.0	-000.0457259
4.5	1.5	4.0 1.5 6.0 3.5 1.5	2.0 1.5	2.0 6.0	-000.1021006
4.5	1.5	4.0 1.5 6.0 3.5 1.5	2.0 1.5	4.0 2.0	000.0231108
4.5	1.5	4.0 1.5 6.0 3.5 1.5	2.0 1.5	4.0 4.0	000.0231587
4.5	1.5	4.0 1.5 6.0 3.5 1.5	2.0 1.5	4.0 6.0	000.0137895
4.5	1.5	4.0 1.5 6.0 3.5 1.5	3.0 1.5	3.0 3.0	000.0173530

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
4.5	1.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	3.0	5.0	-000.0103701
4.5	1.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	3.0	7.0	-000.0472786
4.5	1.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	5.0	1.0	-000.1150775
4.5	1.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	5.0	3.0	-000.0124545
4.5	1.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	5.0	5.0	000.0021701
4.5	1.5	4.0	1.5	6.0	3.5	1.5	3.0	1.5	5.0	7.0	000.0034623
4.5	1.5	4.0	1.5	6.0	3.5	1.5	4.0	1.5	2.0	4.0	000.0707864
4.5	1.5	4.0	1.5	6.0	3.5	1.5	4.0	1.5	2.0	6.0	000.0931466
4.5	1.5	4.0	1.5	6.0	3.5	1.5	4.0	1.5	2.0	8.0	-000.6069247
4.5	1.5	4.0	1.5	6.0	3.5	1.5	4.0	1.5	4.0	2.0	-000.0400266
4.5	1.5	4.0	1.5	6.0	3.5	1.5	4.0	1.5	4.0	4.0	-000.0358507
4.5	1.5	4.0	1.5	6.0	3.5	1.5	4.0	1.5	4.0	6.0	-000.0125802
4.5	1.5	4.0	1.5	6.0	3.5	1.5	4.0	1.5	4.0	8.0	000.0167664
4.5	1.5	4.0	1.5	6.0	3.5	1.5	5.0	1.5	3.0	3.0	-000.1474550
4.5	1.5	4.0	1.5	6.0	3.5	1.5	5.0	1.5	3.0	5.0	-000.4406460
4.5	1.5	4.0	1.5	6.0	3.5	1.5	5.0	1.5	3.0	7.0	-000.7030296
4.5	1.5	4.0	1.5	6.0	3.5	1.5	5.0	1.5	5.0	1.0	000.0888927
4.5	1.5	4.0	1.5	6.0	3.5	1.5	5.0	1.5	5.0	3.0	000.1058289
4.5	1.5	4.0	1.5	6.0	3.5	1.5	5.0	1.5	5.0	5.0	000.0922017
4.5	1.5	4.0	1.5	6.0	3.5	1.5	5.0	1.5	5.0	7.0	000.0514863
4.5	1.5	4.0	1.5	6.0	4.5	0.5	4.0	1.5	4.0	2.0	000.0059493
4.5	1.5	4.0	1.5	6.0	4.5	0.5	4.0	1.5	4.0	4.0	000.0252218
4.5	1.5	4.0	1.5	6.0	4.5	0.5	4.0	1.5	4.0	6.0	000.0546655
4.5	1.5	4.0	1.5	6.0	4.5	0.5	4.0	1.5	4.0	8.0	000.0758298
4.5	1.5	4.0	1.5	6.0	4.5	0.5	4.0	1.5	6.0	2.0	-000.1800151
4.5	1.5	4.0	1.5	6.0	4.5	0.5	4.0	1.5	6.0	4.0	-000.2035134
4.5	1.5	4.0	1.5	6.0	4.5	0.5	4.0	1.5	6.0	6.0	-000.1687845
4.5	1.5	4.0	1.5	6.0	4.5	0.5	4.0	1.5	6.0	8.0	-000.0910507

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	4.0	1.5	6.0	4.5	0.5	5.0	1.5	3.0	3.0	-000.0285161
4.5	1.5	4.0	1.5	6.0	4.5	0.5	5.0	1.5	3.0	5.0	-000.0299389
4.5	1.5	4.0	1.5	6.0	4.5	0.5	5.0	1.5	3.0	7.0	000.2444644
4.5	1.5	4.0	1.5	6.0	4.5	0.5	5.0	1.5	3.0	9.0	002.3396676
4.5	1.5	4.0	1.5	6.0	4.5	0.5	5.0	1.5	5.0	1.0	000.0677185
4.5	1.5	4.0	1.5	6.0	4.5	0.5	5.0	1.5	5.0	3.0	000.0647194
4.5	1.5	4.0	1.5	6.0	4.5	0.5	5.0	1.5	5.0	5.0	000.0198111
4.5	1.5	4.0	1.5	6.0	4.5	0.5	5.0	1.5	5.0	7.0	-000.0566149
4.5	1.5	4.0	1.5	6.0	4.5	0.5	5.0	1.5	5.0	9.0	-000.1231457
4.5	1.5	4.0	1.5	6.0	4.5	1.5	3.0	1.5	3.0	3.0	-000.0347085
4.5	1.5	4.0	1.5	6.0	4.5	1.5	3.0	1.5	3.0	5.0	-000.1037166
4.5	1.5	4.0	1.5	6.0	4.5	1.5	3.0	1.5	3.0	7.0	-000.1654740
4.5	1.5	4.0	1.5	6.0	4.5	1.5	3.0	1.5	5.0	1.0	000.0661650
4.5	1.5	4.0	1.5	6.0	4.5	1.5	3.0	1.5	5.0	3.0	000.0787711
4.5	1.5	4.0	1.5	6.0	4.5	1.5	3.0	1.5	5.0	5.0	000.0686283
4.5	1.5	4.0	1.5	6.0	4.5	1.5	3.0	1.5	5.0	7.0	000.0383221
4.5	1.5	4.0	1.5	6.0	4.5	1.5	4.0	1.5	4.0	2.0	-000.0000000
4.5	1.5	4.0	1.5	6.0	4.5	1.5	4.0	1.5	4.0	4.0	000.0000000
4.5	1.5	4.0	1.5	6.0	4.5	1.5	4.0	1.5	4.0	6.0	-000.0000000
4.5	1.5	4.0	1.5	6.0	4.5	1.5	4.0	1.5	4.0	8.0	000.0000000
4.5	1.5	4.0	1.5	6.0	4.5	1.5	4.0	1.5	6.0	2.0	-000.0000000
4.5	1.5	4.0	1.5	6.0	4.5	1.5	4.0	1.5	6.0	4.0	000.0000000
4.5	1.5	4.0	1.5	6.0	4.5	1.5	4.0	1.5	6.0	6.0	-000.0000000
4.5	1.5	4.0	1.5	6.0	4.5	1.5	4.0	1.5	6.0	8.0	000.0000000
4.5	1.5	4.0	1.5	6.0	4.5	1.5	5.0	1.5	3.0	3.0	000.0424767
4.5	1.5	4.0	1.5	6.0	4.5	1.5	5.0	1.5	3.0	5.0	000.1100074
4.5	1.5	4.0	1.5	6.0	4.5	1.5	5.0	1.5	3.0	7.0	000.0860354
4.5	1.5	4.0	1.5	6.0	4.5	1.5	5.0	1.5	3.0	9.0	-000.7163747

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	4.0	1.5	6.0	4.5	1.5	5.0	1.5	5.0	1.0	-000.0850644
4.5	1.5	4.0	1.5	6.0	4.5	1.5	5.0	1.5	5.0	3.0	-000.0964028
4.5	1.5	4.0	1.5	6.0	4.5	1.5	5.0	1.5	5.0	5.0	-000.0727908
4.5	1.5	4.0	1.5	6.0	4.5	1.5	5.0	1.5	5.0	7.0	-000.0199248
4.5	1.5	4.0	1.5	6.0	4.5	1.5	5.0	1.5	5.0	9.0	000.0377055
4.5	1.5	4.0	1.5	6.0	4.5	1.5	6.0	1.5	4.0	2.0	-000.0003511
4.5	1.5	4.0	1.5	6.0	4.5	1.5	6.0	1.5	4.0	4.0	-000.0014886
4.5	1.5	4.0	1.5	6.0	4.5	1.5	6.0	1.5	4.0	6.0	-000.0032264
4.5	1.5	4.0	1.5	6.0	4.5	1.5	6.0	1.5	4.0	8.0	-000.0044755
4.5	1.5	4.0	1.5	6.0	4.5	1.5	6.0	1.5	6.0	2.0	000.0106246
4.5	1.5	4.0	1.5	6.0	4.5	1.5	6.0	1.5	6.0	4.0	000.0120115
4.5	1.5	4.0	1.5	6.0	4.5	1.5	6.0	1.5	6.0	6.0	000.0099618
4.5	1.5	4.0	1.5	6.0	4.5	1.5	6.0	1.5	6.0	8.0	000.0053739
4.5	1.5	5.0	0.5	5.0	0.5	0.5	0.0	0.5	0.0	5.0	-001.1009637
4.5	1.5	5.0	0.5	5.0	0.5	0.5	1.0	0.5	1.0	4.0	-001.3250773
4.5	1.5	5.0	0.5	5.0	0.5	1.5	1.0	0.5	1.0	4.0	000.2342427
4.5	1.5	5.0	0.5	5.0	0.5	1.5	2.0	0.5	0.0	5.0	-000.0000000
4.5	1.5	5.0	0.5	5.0	1.5	0.5	1.0	0.5	1.0	4.0	-000.3011539
4.5	1.5	5.0	0.5	5.0	1.5	0.5	1.0	0.5	1.0	6.0	-001.6340309
4.5	1.5	5.0	0.5	5.0	1.5	0.5	2.0	0.5	2.0	3.0	-001.9397144
4.5	1.5	5.0	0.5	5.0	1.5	0.5	2.0	0.5	2.0	5.0	-000.8563049
4.5	1.5	5.0	0.5	5.0	1.5	1.5	0.0	0.5	2.0	5.0	-000.5504815
4.5	1.5	5.0	0.5	5.0	1.5	1.5	1.0	0.5	1.0	4.0	000.3771039
4.5	1.5	5.0	0.5	5.0	1.5	1.5	1.0	0.5	1.0	6.0	-000.3653802
4.5	1.5	5.0	0.5	5.0	1.5	1.5	2.0	0.5	2.0	3.0	000.4849284
4.5	1.5	5.0	0.5	5.0	1.5	1.5	2.0	0.5	2.0	5.0	-000.0611644
4.5	1.5	5.0	0.5	5.0	1.5	1.5	3.0	0.5	1.0	4.0	-000.1212115
4.5	1.5	5.0	0.5	5.0	1.5	1.5	3.0	0.5	1.0	6.0	-000.1217938

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	5.0	0.5	5.0	2.5	0.5	2.0	0.5	2.0	3.0	-000.0440845
4.5	1.5	5.0	0.5	5.0	2.5	0.5	2.0	0.5	2.0	5.0	-000.4140375
4.5	1.5	5.0	0.5	5.0	2.5	0.5	2.0	0.5	2.0	7.0	-002.0267658
4.5	1.5	5.0	0.5	5.0	2.5	0.5	3.0	0.5	3.0	2.0	-002.3184024
4.5	1.5	5.0	0.5	5.0	2.5	0.5	3.0	0.5	3.0	4.0	-001.1615932
4.5	1.5	5.0	0.5	5.0	2.5	0.5	3.0	0.5	3.0	6.0	-000.7867554
4.5	1.5	5.0	0.5	5.0	2.5	1.5	1.0	0.5	3.0	4.0	-000.5938158
4.5	1.5	5.0	0.5	5.0	2.5	1.5	1.0	0.5	3.0	6.0	-000.5966637
4.5	1.5	5.0	0.5	5.0	2.5	1.5	2.0	0.5	2.0	3.0	000.3770250
4.5	1.5	5.0	0.5	5.0	2.5	1.5	2.0	0.5	2.0	5.0	000.2816695
4.5	1.5	5.0	0.5	5.0	2.5	1.5	2.0	0.5	2.0	7.0	-000.5416752
4.5	1.5	5.0	0.5	5.0	2.5	1.5	3.0	0.5	3.0	2.0	000.6480123
4.5	1.5	5.0	0.5	5.0	2.5	1.5	3.0	0.5	3.0	4.0	000.0519473
4.5	1.5	5.0	0.5	5.0	2.5	1.5	3.0	0.5	3.0	6.0	-000.0541298
4.5	1.5	5.0	0.5	5.0	2.5	1.5	4.0	0.5	2.0	3.0	-000.2164510
4.5	1.5	5.0	0.5	5.0	2.5	1.5	4.0	0.5	2.0	5.0	-000.2587310
4.5	1.5	5.0	0.5	5.0	2.5	1.5	4.0	0.5	2.0	7.0	-000.2211370
4.5	1.5	5.0	0.5	5.0	3.5	0.5	3.0	0.5	3.0	2.0	000.1053819
4.5	1.5	5.0	0.5	5.0	3.5	0.5	3.0	0.5	3.0	4.0	-000.0268055
4.5	1.5	5.0	0.5	5.0	3.5	0.5	3.0	0.5	3.0	6.0	-000.4841569
4.5	1.5	5.0	0.5	5.0	3.5	0.5	3.0	0.5	3.0	8.0	-002.3506094
4.5	1.5	5.0	0.5	5.0	3.5	0.5	4.0	0.5	4.0	1.0	-002.4192473
4.5	1.5	5.0	0.5	5.0	3.5	0.5	4.0	0.5	4.0	3.0	-001.1902803
4.5	1.5	5.0	0.5	5.0	3.5	0.5	4.0	0.5	4.0	5.0	-001.0162727
4.5	1.5	5.0	0.5	5.0	3.5	0.5	4.0	0.5	4.0	7.0	-000.7756754
4.5	1.5	5.0	0.5	5.0	3.5	1.5	2.0	0.5	4.0	3.0	-000.6248369
4.5	1.5	5.0	0.5	5.0	3.5	1.5	2.0	0.5	4.0	5.0	-000.7468895
4.5	1.5	5.0	0.5	5.0	3.5	1.5	2.0	0.5	4.0	7.0	-000.6383718

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	5.0 0.5 5.0 3.5 1.5	3.0 0.5 3.0 2.0	000.3650515	
4.5	1.5	5.0 0.5 5.0 3.5 1.5	3.0 0.5 3.0 4.0	000.3946490	
4.5	1.5	5.0 0.5 5.0 3.5 1.5	3.0 0.5 3.0 6.0	000.2096470	
4.5	1.5	5.0 0.5 5.0 3.5 1.5	3.0 0.5 3.0 8.0	-000.6785610	
4.5	1.5	5.0 0.5 5.0 3.5 1.5	4.0 0.5 4.0 1.0	000.7156227	
4.5	1.5	5.0 0.5 5.0 3.5 1.5	4.0 0.5 4.0 3.0	000.1005967	
4.5	1.5	5.0 0.5 5.0 3.5 1.5	4.0 0.5 4.0 5.0	000.0000000	
4.5	1.5	5.0 0.5 5.0 3.5 1.5	4.0 0.5 4.0 7.0	-000.0274919	
4.5	1.5	5.0 0.5 5.0 3.5 1.5	5.0 0.5 3.0 2.0	-000.0259728	
4.5	1.5	5.0 0.5 5.0 3.5 1.5	5.0 0.5 3.0 4.0	-000.0330332	
4.5	1.5	5.0 0.5 5.0 3.5 1.5	5.0 0.5 3.0 6.0	-000.0340932	
4.5	1.5	5.0 0.5 5.0 3.5 1.5	5.0 0.5 3.0 8.0	-000.0275874	
4.5	1.5	5.0 0.5 5.0 4.5 0.5	4.0 0.5 4.0 1.0	000.1924398	
4.5	1.5	5.0 0.5 5.0 4.5 0.5	4.0 0.5 4.0 3.0	000.1831209	
4.5	1.5	5.0 0.5 5.0 4.5 0.5	4.0 0.5 4.0 5.0	000.0000000	
4.5	1.5	5.0 0.5 5.0 4.5 0.5	4.0 0.5 4.0 7.0	-000.5357597	
4.5	1.5	5.0 0.5 5.0 4.5 0.5	4.0 0.5 4.0 9.0	-002.6321259	
4.5	1.5	5.0 0.5 5.0 4.5 0.5	5.0 0.5 5.0 2.0	-000.0060965	
4.5	1.5	5.0 0.5 5.0 4.5 0.5	5.0 0.5 5.0 4.0	-000.0077538	
4.5	1.5	5.0 0.5 5.0 4.5 0.5	5.0 0.5 5.0 6.0	-000.0080026	
4.5	1.5	5.0 0.5 5.0 4.5 0.5	5.0 0.5 5.0 8.0	-000.0064755	
4.5	1.5	5.0 0.5 5.0 4.5 1.5	3.0 0.5 5.0 2.0	-000.0580766	
4.5	1.5	5.0 0.5 5.0 4.5 1.5	3.0 0.5 5.0 4.0	-000.0738648	
4.5	1.5	5.0 0.5 5.0 4.5 1.5	3.0 0.5 5.0 6.0	-000.0762348	
4.5	1.5	5.0 0.5 5.0 4.5 1.5	3.0 0.5 5.0 8.0	-000.0616873	
4.5	1.5	5.0 0.5 5.0 4.5 1.5	4.0 0.5 4.0 1.0	000.3315589	
4.5	1.5	5.0 0.5 5.0 4.5 1.5	4.0 0.5 4.0 3.0	000.4140932	
4.5	1.5	5.0 0.5 5.0 4.5 1.5	4.0 0.5 4.0 5.0	000.3830231	

J_1 , S"	ℓ_1' , S	$\ell_1 ; J_2 , S'$	ℓ_2' , S	$\ell_2 ; L$	H
4.5	1.5	5.0 0.5	5.0 4.5 1.5	4.0 0.5	4.0 7.0 000.1553231
4.5	1.5	5.0 0.5	5.0 4.5 1.5	4.0 0.5	4.0 9.0 -000.7936157
4.5	1.5	5.0 0.5	5.0 4.5 1.5	5.0 0.5	5.0 2.0 000.0000000
4.5	1.5	5.0 0.5	5.0 4.5 1.5	5.0 0.5	5.0 4.0 -000.0000000
4.5	1.5	5.0 0.5	5.0 4.5 1.5	5.0 0.5	5.0 6.0 000.0000000
4.5	1.5	5.0 0.5	5.0 4.5 1.5	5.0 0.5	5.0 8.0 -000.0000000
4.5	1.5	5.0 0.5	5.0 4.5 1.5	6.0 0.5	4.0 1.0 -000.0518302
4.5	1.5	5.0 0.5	5.0 4.5 1.5	6.0 0.5	4.0 3.0 -000.0696164
4.5	1.5	5.0 0.5	5.0 4.5 1.5	6.0 0.5	4.0 5.0 -000.0788473
4.5	1.5	5.0 0.5	5.0 4.5 1.5	6.0 0.5	4.0 7.0 -000.0776985
4.5	1.5	5.0 0.5	5.0 4.5 1.5	6.0 0.5	4.0 9.0 -000.0612638
4.5	1.5	5.0 1.5	3.0 0.5 0.5	0.0 1.5	2.0 5.0 000.8989331
4.5	1.5	5.0 1.5	3.0 0.5 0.5	1.0 1.5	1.0 4.0 001.0819209
4.5	1.5	5.0 1.5	3.0 0.5 1.5	1.0 1.5	1.0 4.0 -000.1912584
4.5	1.5	5.0 1.5	3.0 0.5 1.5	2.0 1.5	2.0 5.0 000.0000000
4.5	1.5	5.0 1.5	3.0 1.5 0.5	1.0 1.5	1.0 4.0 -000.4276667
4.5	1.5	5.0 1.5	3.0 1.5 0.5	1.0 1.5	3.0 4.0 000.1166364
4.5	1.5	5.0 1.5	3.0 1.5 0.5	1.0 1.5	3.0 6.0 001.4063500
4.5	1.5	5.0 1.5	3.0 1.5 0.5	2.0 1.5	0.0 3.0 -001.6798420
4.5	1.5	5.0 1.5	3.0 1.5 0.5	2.0 1.5	2.0 3.0 000.5599473
4.5	1.5	5.0 1.5	3.0 1.5 0.5	2.0 1.5	2.0 5.0 000.9887760
4.5	1.5	5.0 1.5	3.0 1.5 1.5	0.0 1.5	2.0 5.0 000.6356416
4.5	1.5	5.0 1.5	3.0 1.5 1.5	1.0 1.5	1.0 4.0 000.5355233
4.5	1.5	5.0 1.5	3.0 1.5 1.5	1.0 1.5	3.0 4.0 -000.1460517
4.5	1.5	5.0 1.5	3.0 1.5 1.5	1.0 1.5	3.0 6.0 000.3144689
4.5	1.5	5.0 1.5	3.0 1.5 1.5	2.0 1.5	0.0 3.0 000.4199605
4.5	1.5	5.0 1.5	3.0 1.5 1.5	2.0 1.5	2.0 3.0 -000.1399867
4.5	1.5	5.0 1.5	3.0 1.5 1.5	2.0 1.5	2.0 5.0 000.0706265

J_1	, S"	ℓ_1'	, S	ℓ_1	; J_2	, S'	ℓ_2'	, S	ℓ_2	; L	H
4.5	1.5	5.0	1.5	3.0	1.5	1.5	3.0	1.5	1.0	4.0	-000.1721322
4.5	1.5	5.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	4.0	000.0469452
4.5	1.5	5.0	1.5	3.0	1.5	1.5	3.0	1.5	3.0	6.0	000.1048231
4.5	1.5	5.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	3.0	-000.0748259
4.5	1.5	5.0	1.5	3.0	2.5	0.5	2.0	1.5	2.0	5.0	-000.4152681
4.5	1.5	5.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	3.0	000.0083313
4.5	1.5	5.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	5.0	000.1956142
4.5	1.5	5.0	1.5	3.0	2.5	0.5	2.0	1.5	4.0	7.0	001.7874392
4.5	1.5	5.0	1.5	3.0	2.5	0.5	3.0	1.5	1.0	2.0	-002.1994290
4.5	1.5	5.0	1.5	3.0	2.5	0.5	3.0	1.5	1.0	4.0	-000.6734352
4.5	1.5	5.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	2.0	000.2993038
4.5	1.5	5.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	4.0	000.6748246
4.5	1.5	5.0	1.5	3.0	2.5	0.5	3.0	1.5	3.0	6.0	001.0156966
4.5	1.5	5.0	1.5	3.0	2.5	1.5	1.0	1.5	1.0	4.0	-000.3442652
4.5	1.5	5.0	1.5	3.0	2.5	1.5	1.0	1.5	3.0	4.0	000.3449750
4.5	1.5	5.0	1.5	3.0	2.5	1.5	1.0	1.5	3.0	6.0	000.7702896
4.5	1.5	5.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	3.0	000.6399403
4.5	1.5	5.0	1.5	3.0	2.5	1.5	2.0	1.5	2.0	5.0	000.2825072
4.5	1.5	5.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	3.0	-000.0712516
4.5	1.5	5.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	5.0	-000.1330761
4.5	1.5	5.0	1.5	3.0	2.5	1.5	2.0	1.5	4.0	7.0	000.4777131
4.5	1.5	5.0	1.5	3.0	2.5	1.5	3.0	1.5	1.0	2.0	000.6147592
4.5	1.5	5.0	1.5	3.0	2.5	1.5	3.0	1.5	1.0	4.0	000.0301165
4.5	1.5	5.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	2.0	-000.0836576
4.5	1.5	5.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	4.0	-000.0301797
4.5	1.5	5.0	1.5	3.0	2.5	1.5	3.0	1.5	3.0	6.0	000.0698812
4.5	1.5	5.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	3.0	-000.3673892
4.5	1.5	5.0	1.5	3.0	2.5	1.5	4.0	1.5	2.0	5.0	-000.2594995

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
4.5	1.5	5.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	3.0	000.0409045
4.5	1.5	5.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	5.0	000.1222376
4.5	1.5	5.0	1.5	3.0	2.5	1.5	4.0	1.5	4.0	7.0	000.1950264
4.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	2.0	000.1932008
4.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	4.0	-000.0387194
4.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	3.0	6.0	-000.4034637
4.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	2.0	-000.0078543
4.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	4.0	000.0066591
4.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	6.0	000.2526072
4.5	1.5	5.0	1.5	3.0	3.5	0.5	3.0	1.5	5.0	8.0	002.1024486
4.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	1.0	-002.3756548
4.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	3.0	-000.9523813
4.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	2.0	5.0	-000.4804995
4.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	1.0	000.1180470
4.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	3.0	000.3484779
4.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	5.0	000.7438358
4.5	1.5	5.0	1.5	3.0	3.5	0.5	4.0	1.5	4.0	7.0	001.0597744
4.5	1.5	5.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	3.0	-000.4999525
4.5	1.5	5.0	1.5	3.0	3.5	1.5	2.0	1.5	2.0	5.0	-000.3531341
4.5	1.5	5.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	3.0	000.1829331
4.5	1.5	5.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	5.0	000.5466690
4.5	1.5	5.0	1.5	3.0	3.5	1.5	2.0	1.5	4.0	7.0	000.8721817
4.5	1.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	2.0	000.6692644
4.5	1.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	4.0	000.5700492
4.5	1.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	3.0	6.0	000.1747038
4.5	1.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	2.0	-000.0272100
4.5	1.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	4.0	-000.0980500
4.5	1.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	6.0	-000.1093819

J_1	S''	ℓ_1'	S	ℓ_1	J_2	S'	ℓ_2'	S	ℓ_2	L	H
4.5	1.5	5.0	1.5	3.0	3.5	1.5	3.0	1.5	5.0	8.0	000.6069226
4.5	1.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	1.0	000.7027280
4.5	1.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	3.0	000.0804905
4.5	1.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	2.0	5.0	000.0000000
4.5	1.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	1.0	-000.0349182
4.5	1.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	3.0	-000.0294519
4.5	1.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	5.0	000.0000000
4.5	1.5	5.0	1.5	3.0	3.5	1.5	4.0	1.5	4.0	7.0	000.0375591
4.5	1.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	3.0	2.0	-000.0476166
4.5	1.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	3.0	4.0	-000.0477149
4.5	1.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	3.0	6.0	-000.0284110
4.5	1.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	5.0	2.0	000.0019358
4.5	1.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	5.0	4.0	000.0082072
4.5	1.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	5.0	6.0	000.0177880
4.5	1.5	5.0	1.5	3.0	3.5	1.5	5.0	1.5	5.0	8.0	000.0246749
4.5	1.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	1.0	000.3684936
4.5	1.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	3.0	000.3108005
4.5	1.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	5.0	000.0000000
4.5	1.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	4.0	7.0	-000.3963707
4.5	1.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	3.0	-000.0187843
4.5	1.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	5.0	000.0000000
4.5	1.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	7.0	000.2967636
4.5	1.5	5.0	1.5	3.0	4.5	0.5	4.0	1.5	6.0	9.0	002.3759450
4.5	1.5	5.0	1.5	3.0	4.5	0.5	5.0	1.5	3.0	2.0	-000.0614727
4.5	1.5	5.0	1.5	3.0	4.5	0.5	5.0	1.5	3.0	4.0	-000.0615996
4.5	1.5	5.0	1.5	3.0	4.5	0.5	5.0	1.5	3.0	6.0	-000.0366786
4.5	1.5	5.0	1.5	3.0	4.5	0.5	5.0	1.5	5.0	2.0	000.0079032
4.5	1.5	5.0	1.5	3.0	4.5	0.5	5.0	1.5	5.0	4.0	000.0335056

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	5.0 1.5 3.0	4.5 0.5 5.0	1.5 5.0 6.0	000.0726199
4.5	1.5	5.0 1.5 3.0	4.5 0.5 5.0	1.5 5.0 8.0	000.1007353
4.5	1.5	5.0 1.5 3.0	4.5 1.5 3.0	1.5 3.0 2.0	-000.5856064
4.5	1.5	5.0 1.5 3.0	4.5 1.5 3.0	1.5 3.0 4.0	-000.5868152
4.5	1.5	5.0 1.5 3.0	4.5 1.5 3.0	1.5 3.0 6.0	-000.3494086
4.5	1.5	5.0 1.5 3.0	4.5 1.5 3.0	1.5 5.0 2.0	000.0752875
4.5	1.5	5.0 1.5 3.0	4.5 1.5 3.0	1.5 5.0 4.0	000.3191866
4.5	1.5	5.0 1.5 3.0	4.5 1.5 3.0	1.5 5.0 6.0	000.6917957
4.5	1.5	5.0 1.5 3.0	4.5 1.5 3.0	1.5 5.0 8.0	000.9596294
4.5	1.5	5.0 1.5 3.0	4.5 1.5 4.0	1.5 4.0 1.0	000.6348869
4.5	1.5	5.0 1.5 3.0	4.5 1.5 4.0	1.5 4.0 3.0	000.7028241
4.5	1.5	5.0 1.5 3.0	4.5 1.5 4.0	1.5 4.0 5.0	000.5000677
4.5	1.5	5.0 1.5 3.0	4.5 1.5 4.0	1.5 4.0 7.0	000.1149113
4.5	1.5	5.0 1.5 3.0	4.5 1.5 4.0	1.5 6.0 3.0	-000.0424767
4.5	1.5	5.0 1.5 3.0	4.5 1.5 4.0	1.5 6.0 5.0	-000.1100074
4.5	1.5	5.0 1.5 3.0	4.5 1.5 4.0	1.5 6.0 7.0	-000.0860354
4.5	1.5	5.0 1.5 3.0	4.5 1.5 4.0	1.5 6.0 9.0	000.7163747
4.5	1.5	5.0 1.5 3.0	4.5 1.5 5.0	1.5 3.0 2.0	000.0000000
4.5	1.5	5.0 1.5 3.0	4.5 1.5 5.0	1.5 3.0 4.0	000.0000000
4.5	1.5	5.0 1.5 3.0	4.5 1.5 5.0	1.5 3.0 6.0	000.0000000
4.5	1.5	5.0 1.5 3.0	4.5 1.5 5.0	1.5 5.0 2.0	000.0000000
4.5	1.5	5.0 1.5 3.0	4.5 1.5 5.0	1.5 5.0 4.0	000.0000000
4.5	1.5	5.0 1.5 3.0	4.5 1.5 5.0	1.5 5.0 6.0	000.0000000
4.5	1.5	5.0 1.5 3.0	4.5 1.5 5.0	1.5 5.0 8.0	000.0000000
4.5	1.5	5.0 1.5 3.0	4.5 1.5 6.0	1.5 4.0 1.0	-000.0992471
4.5	1.5	5.0 1.5 3.0	4.5 1.5 6.0	1.5 4.0 3.0	-000.1181564
4.5	1.5	5.0 1.5 3.0	4.5 1.5 6.0	1.5 4.0 5.0	-000.1029421
4.5	1.5	5.0 1.5 3.0	4.5 1.5 6.0	1.5 4.0 7.0	-000.0574838

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
4.5	1.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	3.0	000.0071412
4.5	1.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	5.0	000.0226461
4.5	1.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	7.0	000.0430379
4.5	1.5	5.0	1.5	3.0	4.5	1.5	6.0	1.5	6.0	9.0	000.0553014
4.5	1.5	5.0	1.5	5.0	0.5	0.5	0.0	1.5	2.0	5.0	-000.6356416
4.5	1.5	5.0	1.5	5.0	0.5	0.5	1.0	1.5	1.0	4.0	-000.7650338
4.5	1.5	5.0	1.5	5.0	0.5	1.5	1.0	1.5	1.0	4.0	000.1352401
4.5	1.5	5.0	1.5	5.0	0.5	1.5	2.0	1.5	2.0	5.0	000.0000000
4.5	1.5	5.0	1.5	5.0	1.5	0.5	1.0	1.5	1.0	4.0	-000.4398632
4.5	1.5	5.0	1.5	5.0	1.5	0.5	1.0	1.5	1.0	6.0	000.8949955
4.5	1.5	5.0	1.5	5.0	1.5	0.5	1.0	1.5	3.0	4.0	-000.3298970
4.5	1.5	5.0	1.5	5.0	1.5	0.5	1.0	1.5	3.0	6.0	-000.6961077
4.5	1.5	5.0	1.5	5.0	1.5	0.5	2.0	1.5	0.0	5.0	001.0487552
4.5	1.5	5.0	1.5	5.0	1.5	0.5	2.0	1.5	2.0	3.0	-001.5837702
4.5	1.5	5.0	1.5	5.0	1.5	0.5	2.0	1.5	2.0	5.0	000.3495854
4.5	1.5	5.0	1.5	5.0	1.5	1.5	0.0	1.5	0.0	5.0	000.6741997
4.5	1.5	5.0	1.5	5.0	1.5	1.5	0.0	1.5	2.0	5.0	000.2247332
4.5	1.5	5.0	1.5	5.0	1.5	1.5	1.0	1.5	1.0	4.0	000.5507959
4.5	1.5	5.0	1.5	5.0	1.5	1.5	1.0	1.5	1.0	6.0	000.2001268
4.5	1.5	5.0	1.5	5.0	1.5	1.5	1.0	1.5	3.0	4.0	000.4130967
4.5	1.5	5.0	1.5	5.0	1.5	1.5	1.0	1.5	3.0	6.0	-000.1556545
4.5	1.5	5.0	1.5	5.0	1.5	1.5	2.0	1.5	0.0	5.0	000.0749111
4.5	1.5	5.0	1.5	5.0	1.5	1.5	2.0	1.5	2.0	3.0	000.3959419
4.5	1.5	5.0	1.5	5.0	1.5	1.5	2.0	1.5	2.0	5.0	000.0249700
4.5	1.5	5.0	1.5	5.0	1.5	1.5	3.0	1.5	1.0	4.0	-000.1770413
4.5	1.5	5.0	1.5	5.0	1.5	1.5	3.0	1.5	1.0	6.0	000.0667092
4.5	1.5	5.0	1.5	5.0	1.5	1.5	3.0	1.5	3.0	4.0	-000.1327813
4.5	1.5	5.0	1.5	5.0	1.5	1.5	3.0	1.5	3.0	6.0	-000.0518844

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	5.0 1.5 5.0 2.5 0.5	2.0 1.5	2.0 3.0	-000.0769601
4.5	1.5	5.0 1.5 5.0 2.5 0.5	2.0 1.5	2.0 5.0	-000.3162257
4.5	1.5	5.0 1.5 5.0 2.5 0.5	2.0 1.5	2.0 7.0	001.3268300
4.5	1.5	5.0 1.5 5.0 2.5 0.5	2.0 1.5	4.0 3.0	-000.0589102
4.5	1.5	5.0 1.5 5.0 2.5 0.5	2.0 1.5	4.0 5.0	-000.3872958
4.5	1.5	5.0 1.5 5.0 2.5 0.5	2.0 1.5	4.0 7.0	-000.7222346
4.5	1.5	5.0 1.5 5.0 2.5 0.5	3.0 1.5	1.0 4.0	000.6060602
4.5	1.5	5.0 1.5 5.0 2.5 0.5	3.0 1.5	1.0 6.0	001.0555434
4.5	1.5	5.0 1.5 5.0 2.5 0.5	3.0 1.5	3.0 2.0	-002.1164010
4.5	1.5	5.0 1.5 5.0 2.5 0.5	3.0 1.5	3.0 4.0	-000.3181151
4.5	1.5	5.0 1.5 5.0 2.5 0.5	3.0 1.5	3.0 6.0	000.5745654
4.5	1.5	5.0 1.5 5.0 2.5 1.5	1.0 1.5	1.0 4.0	000.3098225
4.5	1.5	5.0 1.5 5.0 2.5 1.5	1.0 1.5	1.0 6.0	000.8005085
4.5	1.5	5.0 1.5 5.0 2.5 1.5	1.0 1.5	3.0 4.0	-000.1626225
4.5	1.5	5.0 1.5 5.0 2.5 1.5	1.0 1.5	3.0 6.0	000.4357409
4.5	1.5	5.0 1.5 5.0 2.5 1.5	2.0 1.5	2.0 3.0	000.6581903
4.5	1.5	5.0 1.5 5.0 2.5 1.5	2.0 1.5	2.0 5.0	000.2151296
4.5	1.5	5.0 1.5 5.0 2.5 1.5	2.0 1.5	2.0 7.0	000.3546088
4.5	1.5	5.0 1.5 5.0 2.5 1.5	2.0 1.5	4.0 3.0	000.5038221
4.5	1.5	5.0 1.5 5.0 2.5 1.5	2.0 1.5	4.0 5.0	000.2634772
4.5	1.5	5.0 1.5 5.0 2.5 1.5	2.0 1.5	4.0 7.0	-000.1930247
4.5	1.5	5.0 1.5 5.0 2.5 1.5	3.0 1.5	1.0 4.0	-000.0271044
4.5	1.5	5.0 1.5 5.0 2.5 1.5	3.0 1.5	1.0 6.0	000.0726231
4.5	1.5	5.0 1.5 5.0 2.5 1.5	3.0 1.5	3.0 2.0	000.5915522
4.5	1.5	5.0 1.5 5.0 2.5 1.5	3.0 1.5	3.0 4.0	000.0142259
4.5	1.5	5.0 1.5 5.0 2.5 1.5	3.0 1.5	3.0 6.0	000.0395306
4.5	1.5	5.0 1.5 5.0 2.5 1.5	4.0 1.5	2.0 3.0	-000.3778657
4.5	1.5	5.0 1.5 5.0 2.5 1.5	4.0 1.5	2.0 5.0	-000.1976079

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
4.5	1.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	2.0	7.0	000.1447694
4.5	1.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	4.0	3.0	-000.2892424
4.5	1.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	4.0	5.0	-000.2420194
4.5	1.5	5.0	1.5	5.0	2.5	1.5	4.0	1.5	4.0	7.0	-000.0788024
4.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	2.0	000.1987088
4.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	4.0	-000.0358028
4.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	6.0	-000.2282340
4.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	3.0	8.0	001.6621317
4.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	2.0	000.0141377
4.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	4.0	-000.0029968
4.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	6.0	-000.0371160
4.5	1.5	5.0	1.5	5.0	3.5	0.5	3.0	1.5	5.0	8.0	-000.0675753
4.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	2.0	3.0	000.3061063
4.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	2.0	5.0	000.7318002
4.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	2.0	7.0	001.0772041
4.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	1.0	-002.3372165
4.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	3.0	-000.7392332
4.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	5.0	000.0000000
4.5	1.5	5.0	1.5	5.0	3.5	0.5	4.0	1.5	4.0	7.0	000.6958467
4.5	1.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	2.0	3.0	000.1606898
4.5	1.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	2.0	5.0	000.5378226
4.5	1.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	2.0	7.0	000.8865243
4.5	1.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	4.0	3.0	-000.3880611
4.5	1.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	4.0	5.0	000.0000000
4.5	1.5	5.0	1.5	5.0	3.5	1.5	2.0	1.5	4.0	7.0	000.5726737
4.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	2.0	000.6883504
4.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	4.0	000.5271112
4.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	6.0	000.0988261

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	3.0	8.0	000.4798147
4.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	5.0	2.0	000.0489744
4.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	5.0	4.0	000.0441208
4.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	5.0	6.0	000.0160715
4.5	1.5	5.0	1.5	5.0	3.5	1.5	3.0	1.5	5.0	8.0	-000.0195071
4.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	3.0	-000.0258703
4.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	5.0	000.0000000
4.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	2.0	7.0	000.0381773
4.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	1.0	000.6913590
4.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	3.0	000.0624761
4.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	5.0	000.0000000
4.5	1.5	5.0	1.5	5.0	3.5	1.5	4.0	1.5	4.0	7.0	000.0246597
4.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	2.0	-000.0489747
4.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	4.0	-000.0441208
4.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	6.0	-000.0160715
4.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	3.0	8.0	000.0195071
4.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	2.0	-000.0034844
4.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	4.0	-000.0036931
4.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	6.0	-000.0026136
4.5	1.5	5.0	1.5	5.0	3.5	1.5	5.0	1.5	5.0	8.0	-000.0007931
4.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	1.0	000.3790021
4.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	3.0	000.3042971
4.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	5.0	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	7.0	-000.1648696
4.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	4.0	9.0	001.9439544
4.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	1.0	000.0493723
4.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	3.0	000.0426312
4.5	1.5	5.0	1.5	5.0	4.5	0.5	4.0	1.5	6.0	5.0	000.0000000

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	5.0 1.5 5.0	4.5 0.5 4.0	1.5 6.0 7.0	-000.0687270
4.5	1.5	5.0 1.5 5.0	4.5 0.5 4.0	1.5 6.0 9.0	-000.1250547
4.5	1.5	5.0 1.5 5.0	4.5 0.5 5.0	1.5 3.0 2.0	000.0079032
4.5	1.5	5.0 1.5 5.0	4.5 0.5 5.0	1.5 3.0 4.0	000.0335056
4.5	1.5	5.0 1.5 5.0	4.5 0.5 5.0	1.5 3.0 6.0	000.0726199
4.5	1.5	5.0 1.5 5.0	4.5 0.5 5.0	1.5 3.0 8.0	000.1007353
4.5	1.5	5.0 1.5 5.0	4.5 0.5 5.0	1.5 5.0 2.0	-000.0050804
4.5	1.5	5.0 1.5 5.0	4.5 0.5 5.0	1.5 5.0 4.0	-000.0034461
4.5	1.5	5.0 1.5 5.0	4.5 0.5 5.0	1.5 5.0 6.0	000.0013337
4.5	1.5	5.0 1.5 5.0	4.5 0.5 5.0	1.5 5.0 8.0	000.0064755
4.5	1.5	5.0 1.5 5.0	4.5 1.5 3.0	1.5 3.0 2.0	000.0752875
4.5	1.5	5.0 1.5 5.0	4.5 1.5 3.0	1.5 3.0 4.0	000.3191866
4.5	1.5	5.0 1.5 5.0	4.5 1.5 3.0	1.5 3.0 6.0	000.6917957
4.5	1.5	5.0 1.5 5.0	4.5 1.5 3.0	1.5 3.0 8.0	000.9596294
4.5	1.5	5.0 1.5 5.0	4.5 1.5 3.0	1.5 5.0 2.0	-000.0483971
4.5	1.5	5.0 1.5 5.0	4.5 1.5 3.0	1.5 5.0 4.0	-000.0328289
4.5	1.5	5.0 1.5 5.0	4.5 1.5 3.0	1.5 5.0 6.0	000.0127058
4.5	1.5	5.0 1.5 5.0	4.5 1.5 3.0	1.5 5.0 8.0	000.0616873
4.5	1.5	5.0 1.5 5.0	4.5 1.5 4.0	1.5 4.0 1.0	000.6529921
4.5	1.5	5.0 1.5 5.0	4.5 1.5 4.0	1.5 4.0 3.0	000.6881173
4.5	1.5	5.0 1.5 5.0	4.5 1.5 4.0	1.5 4.0 5.0	000.4243219
4.5	1.5	5.0 1.5 5.0	4.5 1.5 4.0	1.5 4.0 7.0	000.0477972
4.5	1.5	5.0 1.5 5.0	4.5 1.5 4.0	1.5 4.0 9.0	000.5861236
4.5	1.5	5.0 1.5 5.0	4.5 1.5 4.0	1.5 6.0 1.0	000.0850644
4.5	1.5	5.0 1.5 5.0	4.5 1.5 4.0	1.5 6.0 3.0	000.0964028
4.5	1.5	5.0 1.5 5.0	4.5 1.5 4.0	1.5 ^s 6.0 5.0	000.0727908
4.5	1.5	5.0 1.5 5.0	4.5 1.5 4.0	1.5 6.0 7.0	000.0199248
4.5	1.5	5.0 1.5 5.0	4.5 1.5 4.0	1.5 6.0 9.0	-000.0377055

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	000.0000000
4.5	1.5	5.0	1.5	5.0	4.5	1.5	0

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	6.0	0.5	4.0	1.5	1.5	3.0	0.5	1.0	3.0	001.6988237
4.5	1.5	6.0	0.5	4.0	1.5	1.5	3.0	0.5	1.0	5.0	000.2999848
4.5	1.5	6.0	0.5	4.0	2.5	0.5	2.0	0.5	2.0	4.0	-000.2830907
4.5	1.5	6.0	0.5	4.0	2.5	0.5	2.0	0.5	2.0	6.0	-000.2844482
4.5	1.5	6.0	0.5	4.0	2.5	0.5	3.0	0.5	3.0	3.0	000.3453350
4.5	1.5	6.0	0.5	4.0	2.5	0.5	3.0	0.5	3.0	5.0	000.4127911
4.5	1.5	6.0	0.5	4.0	2.5	0.5	3.0	0.5	3.0	7.0	000.3528147
4.5	1.5	6.0	0.5	4.0	2.5	1.5	1.0	0.5	3.0	5.0	-000.3875915
4.5	1.5	6.0	0.5	4.0	2.5	1.5	1.0	0.5	3.0	7.0	-002.1256890
4.5	1.5	6.0	0.5	4.0	2.5	1.5	2.0	0.5	2.0	4.0	-000.7565903
4.5	1.5	6.0	0.5	4.0	2.5	1.5	2.0	0.5	2.0	6.0	-000.7602195
4.5	1.5	6.0	0.5	4.0	2.5	1.5	3.0	0.5	3.0	3.0	000.5405346
4.5	1.5	6.0	0.5	4.0	2.5	1.5	3.0	0.5	3.0	5.0	000.6461211
4.5	1.5	6.0	0.5	4.0	2.5	1.5	3.0	0.5	3.0	7.0	000.5522428
4.5	1.5	6.0	0.5	4.0	2.5	1.5	4.0	0.5	2.0	2.0	000.1570866
4.5	1.5	6.0	0.5	4.0	2.5	1.5	4.0	0.5	2.0	4.0	000.0349802
4.5	1.5	6.0	0.5	4.0	2.5	1.5	4.0	0.5	2.0	6.0	000.0093727
4.5	1.5	6.0	0.5	4.0	3.5	0.5	3.0	0.5	3.0	3.0	-000.3453354
4.5	1.5	6.0	0.5	4.0	3.5	0.5	3.0	0.5	3.0	5.0	-000.4127920
4.5	1.5	6.0	0.5	4.0	3.5	0.5	3.0	0.5	3.0	7.0	-000.3528138
4.5	1.5	6.0	0.5	4.0	3.5	0.5	4.0	0.5	4.0	2.0	000.0290853
4.5	1.5	6.0	0.5	4.0	3.5	0.5	4.0	0.5	4.0	4.0	000.0369921
4.5	1.5	6.0	0.5	4.0	3.5	0.5	4.0	0.5	4.0	6.0	000.0381790
4.5	1.5	6.0	0.5	4.0	3.5	0.5	4.0	0.5	4.0	8.0	000.0308935
4.5	1.5	6.0	0.5	4.0	3.5	1.5	2.0	0.5	4.0	4.0	-000.1666682
4.5	1.5	6.0	0.5	4.0	3.5	1.5	2.0	0.5	4.0	6.0	-000.6450671
4.5	1.5	6.0	0.5	4.0	3.5	1.5	2.0	0.5	4.0	8.0	-002.5518687
4.5	1.5	6.0	0.5	4.0	3.5	1.5	3.0	0.5	3.0	3.0	-000.6978258

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	6.0	0.5	4.0	3.5	1.5	3.0	0.5	3.0	5.0	-000.8341374
4.5	1.5	6.0	0.5	4.0	3.5	1.5	3.0	0.5	3.0	7.0	-000.7129400
4.5	1.5	6.0	0.5	4.0	3.5	1.5	4.0	0.5	4.0	2.0	000.0319559
4.5	1.5	6.0	0.5	4.0	3.5	1.5	4.0	0.5	4.0	4.0	000.0406433
4.5	1.5	6.0	0.5	4.0	3.5	1.5	4.0	0.5	4.0	6.0	000.0419475
4.5	1.5	6.0	0.5	4.0	3.5	1.5	4.0	0.5	4.0	8.0	000.0339428
4.5	1.5	6.0	0.5	4.0	3.5	1.5	5.0	0.5	3.0	1.0	000.3605831
4.5	1.5	6.0	0.5	4.0	3.5	1.5	5.0	0.5	3.0	3.0	000.0715475
4.5	1.5	6.0	0.5	4.0	3.5	1.5	5.0	0.5	3.0	5.0	000.0249338
4.5	1.5	6.0	0.5	4.0	3.5	1.5	5.0	0.5	3.0	7.0	000.0074588
4.5	1.5	6.0	0.5	4.0	4.5	0.5	4.0	0.5	4.0	2.0	-000.0290853
4.5	1.5	6.0	0.5	4.0	4.5	0.5	4.0	0.5	4.0	4.0	-000.0369921
4.5	1.5	6.0	0.5	4.0	4.5	0.5	4.0	0.5	4.0	6.0	-000.0381791
4.5	1.5	6.0	0.5	4.0	4.5	0.5	4.0	0.5	4.0	8.0	-000.0308935
4.5	1.5	6.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	1.0	000.0634788
4.5	1.5	6.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	3.0	000.0852618
4.5	1.5	6.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	5.0	000.0965682
4.5	1.5	6.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	7.0	000.0951607
4.5	1.5	6.0	0.5	4.0	4.5	0.5	5.0	0.5	5.0	9.0	000.0750327
4.5	1.5	6.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	3.0	-000.0766843
4.5	1.5	6.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	5.0	-000.2979064
4.5	1.5	6.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	7.0	-000.8387553
4.5	1.5	6.0	0.5	4.0	4.5	1.5	3.0	0.5	5.0	9.0	-002.9099233
4.5	1.5	6.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	2.0	-000.0482326
4.5	1.5	6.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	4.0	-000.0613445
4.5	1.5	6.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	6.0	-000.0633128
4.5	1.5	6.0	0.5	4.0	4.5	1.5	4.0	0.5	4.0	8.0	-000.0512313
4.5	1.5	6.0	0.5	4.0	4.5	1.5	5.0	0.5	5.0	1.0	000.0518302

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	6.0 0.5 4.0	4.5 1.5 5.0 0.5	5.0 3.0	000.0696164
4.5	1.5	6.0 0.5 4.0	4.5 1.5 5.0 0.5	5.0 5.0	000.0788473
4.5	1.5	6.0 0.5 4.0	4.5 1.5 5.0 0.5	5.0 7.0	000.0776985
4.5	1.5	6.0 0.5 4.0	4.5 1.5 5.0 0.5	5.0 9.0	000.0612638
4.5	1.5	6.0 0.5 4.0	4.5 1.5 6.0 0.5	4.0 2.0	000.0000000
4.5	1.5	6.0 0.5 4.0	4.5 1.5 6.0 0.5	4.0 4.0	000.0000000
4.5	1.5	6.0 0.5 4.0	4.5 1.5 6.0 0.5	4.0 6.0	000.0000000
4.5	1.5	6.0 0.5 4.0	4.5 1.5 6.0 0.5	4.0 8.0	000.0000000
4.5	1.5	6.0 1.5 4.0	0.5 0.5 1.0 1.5	1.0 5.0	-000.0817212
4.5	1.5	6.0 1.5 4.0	0.5 1.5 1.0 1.5	1.0 5.0	-000.4622848
4.5	1.5	6.0 1.5 4.0	0.5 1.5 2.0 1.5	2.0 4.0	-000.4694523
4.5	1.5	6.0 1.5 4.0	1.5 0.5 1.0 1.5	1.0 5.0	000.2067397
4.5	1.5	6.0 1.5 4.0	1.5 0.5 1.0 1.5	3.0 5.0	000.1550549
4.5	1.5	6.0 1.5 4.0	1.5 0.5 2.0 1.5	0.0 4.0	000.4694525
4.5	1.5	6.0 1.5 4.0	1.5 0.5 2.0 1.5	2.0 4.0	000.2987424
4.5	1.5	6.0 1.5 4.0	1.5 0.5 2.0 1.5	2.0 6.0	-000.1715284

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	6.0 1.5 4.0 1.5 1.5	0.0 1.5	2.0 6.0	000.9434080
4.5	1.5	6.0 1.5 4.0 1.5 1.5	1.0 1.5	1.0 5.0	000.8783410
4.5	1.5	6.0 1.5 4.0 1.5 1.5	1.0 1.5	3.0 5.0	000.6587558
4.5	1.5	6.0 1.5 4.0 1.5 1.5	2.0 1.5	0.0 4.0	001.1736313
4.5	1.5	6.0 1.5 4.0 1.5 1.5	2.0 1.5	2.0 4.0	000.7468562
4.5	1.5	6.0 1.5 4.0 1.5 1.5	2.0 1.5	2.0 6.0	-000.4288215
4.5	1.5	6.0 1.5 4.0 1.5 1.5	3.0 1.5	1.0 3.0	001.2598816
4.5	1.5	6.0 1.5 4.0 1.5 1.5	3.0 1.5	1.0 5.0	-000.3235990
4.5	1.5	6.0 1.5 4.0 1.5 1.5	3.0 1.5	3.0 3.0	-000.3436030
4.5	1.5	6.0 1.5 4.0 1.5 1.5	3.0 1.5	3.0 5.0	-000.2426989
4.5	1.5	6.0 1.5 4.0 2.5 0.5	2.0 1.5	2.0 4.0	-000.0114058
4.5	1.5	6.0 1.5 4.0 2.5 0.5	2.0 1.5	2.0 6.0	000.3667439
4.5	1.5	6.0 1.5 4.0 2.5 0.5	2.0 1.5	4.0 4.0	000.1257249
4.5	1.5	6.0 1.5 4.0 2.5 0.5	2.0 1.5	4.0 6.0	000.2807297
4.5	1.5	6.0 1.5 4.0 2.5 0.5	3.0 1.5	1.0 3.0	000.6273318
4.5	1.5	6.0 1.5 4.0 2.5 0.5	3.0 1.5	1.0 5.0	000.4431067
4.5	1.5	6.0 1.5 4.0 2.5 0.5	3.0 1.5	3.0 3.0	000.5354964
4.5	1.5	6.0 1.5 4.0 2.5 0.5	3.0 1.5	3.0 5.0	000.2643881
4.5	1.5	6.0 1.5 4.0 2.5 0.5	3.0 1.5	3.0 7.0	-000.2378666
4.5	1.5	6.0 1.5 4.0 2.5 1.5	1.0 1.5	1.0 5.0	-000.4160563
4.5	1.5	6.0 1.5 4.0 2.5 1.5	1.0 1.5	3.0 5.0	-000.2482483
4.5	1.5	6.0 1.5 4.0 2.5 1.5	1.0 1.5	3.0 7.0	001.4331393
4.5	1.5	6.0 1.5 4.0 2.5 1.5	2.0 1.5	2.0 4.0	-000.0304835
4.5	1.5	6.0 1.5 4.0 2.5 1.5	2.0 1.5	2.0 6.0	000.9801641
4.5	1.5	6.0 1.5 4.0 2.5 1.5	2.0 1.5	4.0 4.0	000.3360141
4.5	1.5	6.0 1.5 4.0 2.5 1.5	2.0 1.5	4.0 6.0	000.7502818
4.5	1.5	6.0 1.5 4.0 2.5 1.5	3.0 1.5	1.0 3.0	000.9819297
4.5	1.5	6.0 1.5 4.0 2.5 1.5	3.0 1.5	1.0 5.0	000.6935716

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	6.0 1.5 4.0 2.5 1.5	3.0 1.5 3.0	3.0	000.8381861
4.5	1.5	6.0 1.5 4.0 2.5 1.5	3.0 1.5 3.0	5.0	000.4138341
4.5	1.5	6.0 1.5 4.0 2.5 1.5	3.0 1.5 3.0	7.0	-000.3723202
4.5	1.5	6.0 1.5 4.0 2.5 1.5	4.0 1.5 2.0	2.0	000.1392423
4.5	1.5	6.0 1.5 4.0 2.5 1.5	4.0 1.5 2.0	4.0	000.0014093
4.5	1.5	6.0 1.5 4.0 2.5 1.5	4.0 1.5 2.0	6.0	-000.0120845
4.5	1.5	6.0 1.5 4.0 2.5 1.5	4.0 1.5 4.0	2.0	-000.0155032
4.5	1.5	6.0 1.5 4.0 2.5 1.5	4.0 1.5 4.0	4.0	-000.0155353
4.5	1.5	6.0 1.5 4.0 2.5 1.5	4.0 1.5 4.0	6.0	-000.0092503
4.5	1.5	6.0 1.5 4.0 3.5 0.5	3.0 1.5 3.0	3.0	-000.1803440
4.5	1.5	6.0 1.5 4.0 3.5 0.5	3.0 1.5 3.0	5.0	000.1077870
4.5	1.5	6.0 1.5 4.0 3.5 0.5	3.0 1.5 3.0	7.0	000.4913369
4.5	1.5	6.0 1.5 4.0 3.5 0.5	3.0 1.5 5.0	3.0	000.0806525
4.5	1.5	6.0 1.5 4.0 3.5 0.5	3.0 1.5 5.0	5.0	000.2410169
4.5	1.5	6.0 1.5 4.0 3.5 0.5	3.0 1.5 5.0	7.0	000.3845304
4.5	1.5	6.0 1.5 4.0 3.5 0.5	4.0 1.5 2.0	2.0	000.0546905
4.5	1.5	6.0 1.5 4.0 3.5 0.5	4.0 1.5 2.0	4.0	000.0548034
4.5	1.5	6.0 1.5 4.0 3.5 0.5	4.0 1.5 2.0	6.0	000.0326318
4.5	1.5	6.0 1.5 4.0 3.5 0.5	4.0 1.5 4.0	2.0	000.0526225
4.5	1.5	6.0 1.5 4.0 3.5 0.5	4.0 1.5 4.0	4.0	000.0471323
4.5	1.5	6.0 1.5 4.0 3.5 0.5	4.0 1.5 4.0	6.0	000.0165391
4.5	1.5	6.0 1.5 4.0 3.5 0.5	4.0 1.5 4.0	8.0	-000.0220427
4.5	1.5	6.0 1.5 4.0 3.5 1.5	2.0 1.5 2.0	4.0	-000.2469191
4.5	1.5	6.0 1.5 4.0 3.5 1.5	2.0 1.5 2.0	6.0	-000.5513413
4.5	1.5	6.0 1.5 4.0 3.5 1.5	2.0 1.5 4.0	4.0	-000.2123568
4.5	1.5	6.0 1.5 4.0 3.5 1.5	2.0 1.5 4.0	6.0	-000.2794420
4.5	1.5	6.0 1.5 4.0 3.5 1.5	2.0 1.5 4.0	8.0	001.8207741
4.5	1.5	6.0 1.5 4.0 3.5 1.5	3.0 1.5 3.0	3.0	-000.3644281

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	6.0 1.5 4.0 3.5 1.5 3.0 1.5 3.0 5.0	000.2178069		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 3.0 1.5 4.0 7.0	000.9928588		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 3.0 1.5 5.0 3.0	000.1629757		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 3.0 1.5 5.0 5.0	000.4870317		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 3.0 1.5 5.0 7.0	000.7770335		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 4.0 1.5 2.0 2.0	000.0600884		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 4.0 1.5 2.0 4.0	000.0602125		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 4.0 1.5 2.0 6.0	000.0358525		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 4.0 1.5 4.0 2.0	000.0578164		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 4.0 1.5 4.0 4.0	000.0517843		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 4.0 1.5 4.0 6.0	000.0181715		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 4.0 1.5 4.0 8.0	-000.0242184		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 5.0 1.5 3.0 1.0	000.3452319		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 5.0 1.5 3.0 3.0	000.0373644		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 5.0 1.5 3.0 5.0	-000.0065102		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 5.0 1.5 3.0 7.0	-000.0103873		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 5.0 1.5 5.0 1.0	-000.0140357		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 5.0 1.5 5.0 3.0	-000.0167099		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 5.0 1.5 5.0 5.0	-000.0145582		
4.5	1.5	6.0 1.5 4.0 3.5 1.5 5.0 1.5 5.0 7.0	-000.0081292		
4.5	1.5	6.0 1.5 4.0 4.5 0.5 4.0 1.5 4.0 2.0	-000.0231361		
4.5	1.5	6.0 1.5 4.0 4.5 0.5 4.0 1.5 4.0 4.0	-000.0117703		
4.5	1.5	6.0 1.5 4.0 4.5 0.5 4.0 1.5 4.0 6.0	000.0164864		
4.5	1.5	6.0 1.5 4.0 4.5 0.5 4.0 1.5 4.0 8.0	000.0449363		
4.5	1.5	6.0 1.5 4.0 4.5 0.5 4.0 1.5 6.0 2.0	000.0002117		
4.5	1.5	6.0 1.5 4.0 4.5 0.5 4.0 1.5 6.0 4.0	000.0008977		
4.5	1.5	6.0 1.5 4.0 4.5 0.5 4.0 1.5 6.0 6.0	000.0019456		
4.5	1.5	6.0 1.5 4.0 4.5 0.5 4.0 1.5 6.0 8.0	000.0026988		

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.5	1.5	6.0	1.5	4.0	4.5	0.5	000.1215524
4.5	1.5	6.0	1.5	4.0	4.5	0.5	000.1447116
4.5	1.5	6.0	1.5	4.0	4.5	0.5	000.1260790
4.5	1.5	6.0	1.5	4.0	4.5	0.5	000.0704030
4.5	1.5	6.0	1.5	4.0	4.5	0.5	000.1250189
4.5	1.5	6.0	1.5	4.0	4.5	0.5	000.1416832
4.5	1.5	6.0	1.5	4.0	4.5	0.5	000.1069808
4.5	1.5	6.0	1.5	4.0	4.5	0.5	000.0292834
4.5	1.5	6.0	1.5	4.0	4.5	0.5	-000.0554151
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.1301507
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.3889409
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.6205337
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.1274301
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.3300259
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.2581063
4.5	1.5	6.0	1.5	4.0	4.5	1.5	002.1491204
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.0383667
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.0195186
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0273395
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0745181
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0003511
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0014886
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0032264
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0044755
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0992471
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.1181564
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.1029421
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0574838

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.1020775
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.1156838
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0873496
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0239098
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.0452460
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.0000000
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0000000
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.0000000
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0000000
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.0000000
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0000000
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.0000000
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0000000
4.5	1.5	6.0	1.5	4.0	4.5	1.5	-000.0000000
4.5	1.5	6.0	1.5	4.0	4.5	1.5	000.0000000
4.5	1.5	6.0	1.5	6.0	0.5	0.5	000.1733567
4.5	1.5	6.0	1.5	6.0	0.5	1.5	000.9806541
4.5	1.5	6.0	1.5	6.0	0.5	1.5	000.9958588
4.5	1.5	6.0	1.5	6.0	1.5	0.5	000.1644605
4.5	1.5	6.0	1.5	6.0	1.5	0.5	-000.1279139
4.5	1.5	6.0	1.5	6.0	1.5	0.5	-000.2223635
4.5	1.5	6.0	1.5	6.0	1.5	0.5	000.3621301
4.5	1.5	6.0	1.5	6.0	1.5	0.5	000.1415039
4.5	1.5	6.0	1.5	6.0	1.5	1.5	001.2229988
4.5	1.5	6.0	1.5	6.0	1.5	1.5	-000.7782717
4.5	1.5	6.0	1.5	6.0	1.5	1.5	000.6987159
4.5	1.5	6.0	1.5	6.0	1.5	1.5	-000.5434455
4.5	1.5	6.0	1.5	6.0	1.5	1.5	-000.5559087
4.5	1.5	6.0	1.5	6.0	1.5	1.5	000.9053262
4.5	1.5	6.0	1.5	6.0	1.5	1.5	000.3537602

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
4.5	1.5	6.0	1.5	6.0	1.5	1.5	3.0	1.5	1.0	5.0	-000.2574213
4.5	1.5	6.0	1.5	6.0	1.5	1.5	3.0	1.5	3.0	3.0	001.6197651
4.5	1.5	6.0	1.5	6.0	1.5	1.5	3.0	1.5	3.0	5.0	000.2002160
4.5	1.5	6.0	1.5	6.0	2.5	0.5	2.0	1.5	2.0	4.0	000.1129142
4.5	1.5	6.0	1.5	6.0	2.5	0.5	2.0	1.5	2.0	6.0	000.2917432
4.5	1.5	6.0	1.5	6.0	2.5	0.5	2.0	1.5	4.0	4.0	-000.0174015
4.5	1.5	6.0	1.5	6.0	2.5	0.5	2.0	1.5	4.0	6.0	-000.0119897
4.5	1.5	6.0	1.5	6.0	2.5	0.5	3.0	1.5	1.0	5.0	-000.1446108
4.5	1.5	6.0	1.5	6.0	2.5	0.5	3.0	1.5	1.0	7.0	-000.3021320
4.5	1.5	6.0	1.5	6.0	2.5	0.5	3.0	1.5	3.0	3.0	000.4438955
4.5	1.5	6.0	1.5	6.0	2.5	0.5	3.0	1.5	3.0	5.0	000.4132604
4.5	1.5	6.0	1.5	6.0	2.5	0.5	3.0	1.5	3.0	7.0	000.1345583
4.5	1.5	6.0	1.5	6.0	2.5	1.5	1.0	1.5	1.0	5.0	000.1357827
4.5	1.5	6.0	1.5	6.0	2.5	1.5	1.0	1.5	1.0	7.0	001.8203319
4.5	1.5	6.0	1.5	6.0	2.5	1.5	1.0	1.5	3.0	5.0	-000.3880307
4.5	1.5	6.0	1.5	6.0	2.5	1.5	1.0	1.5	3.0	7.0	-000.8107060
4.5	1.5	6.0	1.5	6.0	2.5	1.5	2.0	1.5	2.0	4.0	000.3017742
4.5	1.5	6.0	1.5	6.0	2.5	1.5	2.0	1.5	2.0	6.0	000.7797161
4.5	1.5	6.0	1.5	6.0	2.5	1.5	2.0	1.5	4.0	4.0	-000.0465075
4.5	1.5	6.0	1.5	6.0	2.5	1.5	2.0	1.5	4.0	6.0	-000.0320438
4.5	1.5	6.0	1.5	6.0	2.5	1.5	3.0	1.5	1.0	5.0	-000.2263516
4.5	1.5	6.0	1.5	6.0	2.5	1.5	3.0	1.5	1.0	7.0	-000.4729115
4.5	1.5	6.0	1.5	6.0	2.5	1.5	3.0	1.5	3.0	3.0	000.7730705
4.5	1.5	6.0	1.5	6.0	2.5	1.5	3.0	1.5	3.0	5.0	000.6468549
4.5	1.5	6.0	1.5	6.0	2.5	1.5	3.0	1.5	3.0	7.0	000.2106162
4.5	1.5	6.0	1.5	6.0	2.5	1.5	4.0	1.5	2.0	4.0	-000.0139522
4.5	1.5	6.0	1.5	6.0	2.5	1.5	4.0	1.5	2.0	6.0	-000.0096132
4.5	1.5	6.0	1.5	6.0	2.5	1.5	4.0	1.5	4.0	2.0	000.0115873

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H
4.5	1.5	6.0 1.5 6.0 2.5 1.5	4.0 1.5	4.0 4.0	000.0021502
4.5	1.5	6.0 1.5 6.0 2.5 1.5	4.0 1.5	4.0 6.0	000.0003951
4.5	1.5	6.0 1.5 6.0 3.5 0.5	3.0 1.5	3.0 3.0	000.0708452
4.5	1.5	6.0 1.5 6.0 3.5 0.5	3.0 1.5	3.0 5.0	000.2371192
4.5	1.5	6.0 1.5 6.0 3.5 0.5	3.0 1.5	3.0 7.0	000.3908553
4.5	1.5	6.0 1.5 6.0 3.5 0.5	3.0 1.5	5.0 3.0	-000.0508463
4.5	1.5	6.0 1.5 6.0 3.5 0.5	3.0 1.5	5.0 5.0	-000.0496150
4.5	1.5	6.0 1.5 6.0 3.5 0.5	3.0 1.5	5.0 7.0	-000.0286240
4.5	1.5	6.0 1.5 6.0 3.5 0.5	4.0 1.5	2.0 4.0	-000.0069555
4.5	1.5	6.0 1.5 6.0 3.5 0.5	4.0 1.5	2.0 6.0	-000.0184593
4.5	1.5	6.0 1.5 6.0 3.5 0.5	4.0 1.5	2.0 8.0	-000.0273843
4.5	1.5	6.0 1.5 6.0 3.5 0.5	4.0 1.5	4.0 2.0	000.0033237
4.5	1.5	6.0 1.5 6.0 3.5 0.5	4.0 1.5	4.0 4.0	000.0035227
4.5	1.5	6.0 1.5 6.0 3.5 0.5	4.0 1.5	4.0 6.0	000.0024931
4.5	1.5	6.0 1.5 6.0 3.5 0.5	4.0 1.5	4.0 8.0	000.0007565
4.5	1.5	6.0 1.5 6.0 3.5 1.5	2.0 1.5	2.0 4.0	000.0313373
4.5	1.5	6.0 1.5 6.0 3.5 1.5	2.0 1.5	2.0 6.0	000.3118856
4.5	1.5	6.0 1.5 6.0 3.5 1.5	2.0 1.5	2.0 8.0	002.2619896
4.5	1.5	6.0 1.5 6.0 3.5 1.5	2.0 1.5	4.0 4.0	-000.0158717
4.5	1.5	6.0 1.5 6.0 3.5 1.5	2.0 1.5	4.0 6.0	-000.0421227
4.5	1.5	6.0 1.5 6.0 3.5 1.5	2.0 1.5	4.0 8.0	-000.0624887
4.5	1.5	6.0 1.5 6.0 3.5 1.5	3.0 1.5	3.0 3.0	000.1431597
4.5	1.5	6.0 1.5 6.0 3.5 1.5	3.0 1.5	3.0 5.0	000.4791521
4.5	1.5	6.0 1.5 6.0 3.5 1.5	3.0 1.5	3.0 7.0	000.7898130
4.5	1.5	6.0 1.5 6.0 3.5 1.5	3.0 1.5	5.0 3.0	-000.1027464
4.5	1.5	6.0 1.5 6.0 3.5 1.5	3.0 1.5	5.0 5.0	-000.1002584
4.5	1.5	6.0 1.5 6.0 3.5 1.5	3.0 1.5	5.0 7.0	-000.0578418
4.5	1.5	6.0 1.5 6.0 3.5 1.5	4.0 1.5	2.0 4.0	-000.0076420

J_1 , S"	ℓ_1' , S	ℓ_1 ;	J_2 , S'	ℓ_2' , S	ℓ_2 ;	L	H				
4.5	1.5	6.0	1.5	6.0	3.5	1.5	4.0	1.5	2.0	6.0	-000.0202813
4.5	1.5	6.0	1.5	6.0	3.5	1.5	4.0	1.5	2.0	8.0	-000.0300870
4.5	1.5	6.0	1.5	6.0	3.5	1.5	4.0	1.5	4.0	2.0	000.0036518
4.5	1.5	6.0	1.5	6.0	3.5	1.5	4.0	1.5	4.0	4.0	000.0038704
4.5	1.5	6.0	1.5	6.0	3.5	1.5	4.0	1.5	4.0	6.0	000.0027391
4.5	1.5	6.0	1.5	6.0	3.5	1.5	4.0	1.5	4.0	8.0	000.0008312
4.5	1.5	6.0	1.5	6.0	3.5	1.5	5.0	1.5	3.0	3.0	-000.0146779
4.5	1.5	6.0	1.5	6.0	3.5	1.5	5.0	1.5	3.0	5.0	-000.0143228
4.5	1.5	6.0	1.5	6.0	3.5	1.5	5.0	1.5	3.0	7.0	-000.0082631
4.5	1.5	6.0	1.5	6.0	3.5	1.5	5.0	1.5	5.0	1.0	000.0585091
4.5	1.5	6.0	1.5	6.0	3.5	1.5	5.0	1.5	5.0	3.0	000.0105344
4.5	1.5	6.0	1.5	6.0	3.5	1.5	5.0	1.5	5.0	5.0	000.0029969
4.5	1.5	6.0	1.5	6.0	3.5	1.5	5.0	1.5	5.0	7.0	000.0006051
4.5	1.5	6.0	1.5	6.0	4.5	0.5	4.0	1.5	4.0	2.0	000.0002117
4.5	1.5	6.0	1.5	6.0	4.5	0.5	4.0	1.5	4.0	4.0	000.0008977
4.5	1.5	6.0	1.5	6.0	4.5	0.5	4.0	1.5	4.0	6.0	000.0019456
4.5	1.5	6.0	1.5	6.0	4.5	0.5	4.0	1.5	4.0	8.0	000.0026988
4.5	1.5	6.0	1.5	6.0	4.5	0.5	4.0	1.5	6.0	2.0	-000.0064068
4.5	1.5	6.0	1.5	6.0	4.5	0.5	4.0	1.5	6.0	4.0	-000.0072432
4.5	1.5	6.0	1.5	6.0	4.5	0.5	4.0	1.5	6.0	6.0	-000.0060071
4.5	1.5	6.0	1.5	6.0	4.5	0.5	4.0	1.5	6.0	8.0	-000.0032405
4.5	1.5	6.0	1.5	6.0	4.5	0.5	5.0	1.5	3.0	3.0	-000.0087455
4.5	1.5	6.0	1.5	6.0	4.5	0.5	5.0	1.5	3.0	5.0	-000.0277356
4.5	1.5	6.0	1.5	6.0	4.5	0.5	5.0	1.5	3.0	7.0	-000.0527105
4.5	1.5	6.0	1.5	6.0	4.5	0.5	5.0	1.5	3.0	9.0	-000.0677299
4.5	1.5	6.0	1.5	6.0	4.5	0.5	5.0	1.5	5.0	1.0	000.0162861
4.5	1.5	6.0	1.5	6.0	4.5	0.5	5.0	1.5	5.0	3.0	000.0198494
4.5	1.5	6.0	1.5	6.0	4.5	0.5	5.0	1.5	5.0	5.0	000.0183522

J_1 , S"	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
4.5	1.5	6.0	1.5	6.0	4.5	0.5	5.0	1.5	5.0	7.0	000.0122072
4.5	1.5	6.0	1.5	6.0	4.5	0.5	5.0	1.5	5.0	9.0	000.0035649
4.5	1.5	6.0	1.5	6.0	4.5	1.5	3.0	1.5	3.0	3.0	000.0078660
4.5	1.5	6.0	1.5	6.0	4.5	1.5	3.0	1.5	3.0	5.0	000.0855618
4.5	1.5	6.0	1.5	6.0	4.5	1.5	3.0	1.5	3.0	7.0	000.4645950
4.5	1.5	6.0	1.5	6.0	4.5	1.5	3.0	1.5	3.0	9.0	002.6267041
4.5	1.5	6.0	1.5	6.0	4.5	1.5	3.0	1.5	5.0	3.0	-000.0178527
4.5	1.5	6.0	1.5	6.0	4.5	1.5	3.0	1.5	5.0	5.0	-000.0566150
4.5	1.5	6.0	1.5	6.0	4.5	1.5	3.0	1.5	5.0	7.0	-000.1075951
4.5	1.5	6.0	1.5	6.0	4.5	1.5	3.0	1.5	5.0	9.0	-000.1382530
4.5	1.5	6.0	1.5	6.0	4.5	1.5	4.0	1.5	4.0	2.0	000.0003511
4.5	1.5	6.0	1.5	6.0	4.5	1.5	4.0	1.5	4.0	4.0	000.0014886
4.5	1.5	6.0	1.5	6.0	4.5	1.5	4.0	1.5	4.0	6.0	000.0032264
4.5	1.5	6.0	1.5	6.0	4.5	1.5	4.0	1.5	4.0	8.0	000.0044755
4.5	1.5	6.0	1.5	6.0	4.5	1.5	4.0	1.5	6.0	2.0	-000.0106246
4.5	1.5	6.0	1.5	6.0	4.5	1.5	4.0	1.5	6.0	4.0	-000.0120115
4.5	1.5	6.0	1.5	6.0	4.5	1.5	4.0	1.5	6.0	6.0	-000.0099618
4.5	1.5	6.0	1.5	6.0	4.5	1.5	4.0	1.5	6.0	8.0	-000.0053739
4.5	1.5	6.0	1.5	6.0	4.5	1.5	5.0	1.5	3.0	3.0	-000.0071412
4.5	1.5	6.0	1.5	6.0	4.5	1.5	5.0	1.5	3.0	5.0	-000.0226461
4.5	1.5	6.0	1.5	6.0	4.5	1.5	5.0	1.5	3.0	7.0	-000.0430379
4.5	1.5	6.0	1.5	6.0	4.5	1.5	5.0	1.5	3.0	9.0	-000.0553014
4.5	1.5	6.0	1.5	6.0	4.5	1.5	5.0	1.5	5.0	1.0	000.0132975
4.5	1.5	6.0	1.5	6.0	4.5	1.5	5.0	1.5	5.0	3.0	000.0162069
4.5	1.5	6.0	1.5	6.0	4.5	1.5	5.0	1.5	5.0	5.0	000.0149845
4.5	1.5	6.0	1.5	6.0	4.5	1.5	5.0	1.5	5.0	7.0	000.0099671
4.5	1.5	6.0	1.5	6.0	4.5	1.5	5.0	1.5	5.0	9.0	000.0029106
4.5	1.5	6.0	1.5	6.0	4.5	1.5	6.0	1.5	4.0	2.0	-000.0000000

J_1 , S''	ℓ_1' , S	ℓ_1 ; J_2 , S'	ℓ_2' , S	ℓ_2 ; L	H						
4.5	1.5	6.0	1.5	6.0	4.5	1.5	6.0	1.5	4.0	4.0	000.0000000
4.5	1.5	6.0	1.5	6.0	4.5	1.5	6.0	1.5	4.0	6.0	-000.0000000
4.5	1.5	6.0	1.5	6.0	4.5	1.5	6.0	1.5	4.0	8.0	000.0000000
4.5	1.5	6.0	1.5	6.0	4.5	1.5	6.0	1.5	6.0	2.0	-000.0000000
4.5	1.5	6.0	1.5	6.0	4.5	1.5	6.0	1.5	6.0	4.0	000.0000000
4.5	1.5	6.0	1.5	6.0	4.5	1.5	6.0	1.5	6.0	6.0	-000.0000000
4.5	1.5	6.0	1.5	6.0	4.5	1.5	6.0	1.5	6.0	8.0	000.0000000

VII

TABLE OF G-COEFFICIENTS *

$$\begin{aligned}
 & G_K (J_1 S_1 \ell_1, J_2 S_2 \ell_2, L q) \\
 &= \left[(2J_1 + 1) (2S_1 + 1) (2\ell_1 + 1) (2J_2 + 1) (2S_2 + 1) (2\ell_2 + 1) (2L + 1) (2q + 1) \right]^{1/2} \\
 &\quad \times \sum_r (\ell_1 \ell_2 / r) (q L K - K / r o) \begin{pmatrix} J_1 \ell_1 S_1 \\ L r q \\ J_2 \ell_2 S_2 \end{pmatrix}.
 \end{aligned}$$

* To be published separately.

VIII

TABLE OF CLEBSCH-GORDON COEFFICIENTS WITH
ZERO MAGNETIC QUANTUM NUMBERS

$$\begin{aligned}
 (A \ B \ 0 \ 0 / C \ 0) &= (A \ B / C) = \\
 (-1)^{g+C} (2C+1)^{1/2} &\left[\frac{(A+B-C)! (A-B+C)! (-A+B+C)!}{(A+B+C+1)!} \right]^{1/2} \\
 \times &\frac{g!}{(g-A)! (g-B)! (g-C)!} ,
 \end{aligned}$$

where $2g = A+B+C$.

$(AB / C) = 0$, if g is an odd number.

Tables are given for $A+B+C \leq 21$.

A	B	C	(AB/C)
0.0	0.0	00.0	1.000000000
0.0	1.0	01.0	1.000000000
0.0	2.0	02.0	1.000000000
0.0	3.0	03.0	1.000000000
0.0	4.0	04.0	1.000000000
0.0	5.0	05.0	1.000000000
0.0	6.0	06.0	1.000000000
0.0	7.0	07.0	1.000000000
0.0	8.0	08.0	1.000000000
0.0	9.0	09.0	1.000000000
0.5	0.5	01.0	0.707106781
0.5	1.5	02.0	0.500000000
0.5	2.5	03.0	0.408248290
0.5	3.5	04.0	0.353553390
0.5	4.5	05.0	0.316227766
0.5	5.5	06.0	0.288675134
0.5	6.5	07.0	0.267261242
0.5	7.5	08.0	0.250000000
0.5	8.5	09.0	0.235702260
0.5	9.5	10.0	0.223606797
1.0	0.0	01.0	1.000000000
1.0	1.0	00.0	-0.577350269
1.0	1.0	02.0	0.816496581
1.0	2.0	01.0	-0.632455532
1.0	2.0	03.0	0.774596669
1.0	3.0	02.0	-0.654653671
1.0	3.0	04.0	0.755928947
1.0	4.0	03.0	-0.666666667
1.0	4.0	05.0	0.745355994
1.0	5.0	04.0	-0.674199851
1.0	5.0	06.0	0.738548946
1.0	6.0	05.0	-0.679366221
1.0	6.0	07.0	0.733799383
1.0	7.0	06.0	-0.683130051
1.0	7.0	08.0	0.730296743
1.0	8.0	07.0	-0.685994340
1.0	8.0	09.0	0.727606875
1.0	9.0	08.0	-0.688247201
1.0	9.0	10.0	0.725476250
1.5	0.5	02.0	0.500000000
1.5	1.5	01.0	-0.447213595
1.5	1.5	03.0	0.335410196
1.5	2.5	02.0	-0.327326835
1.5	2.5	04.0	0.267261241
1.5	3.5	03.0	-0.272165526
1.5	3.5	05.0	0.228217732
1.5	4.5	04.0	-0.238365647
1.5	4.5	06.0	0.202259958
1.5	5.5	05.0	-0.214834462
1.5	5.5	07.0	0.183449846
1.5	6.5	06.0	-0.197202659
1.5	6.5	08.0	0.169030850
1.5	7.5	07.0	-0.183339699
1.5	7.5	09.0	0.157531509
1.5	8.5	08.0	-0.172061800

A	B	C	(AB/C)
1.5	8.5	10.0	0.148087219
1.5	9.5	09.0	-0.162650012
2.0	0.0	02.0	1.000000000
2.0	1.0	01.0	-0.632455532
2.0	1.0	03.0	0.774596669
2.0	2.0	00.0	0.447213595
2.0	2.0	02.0	-0.534522483
2.0	2.0	04.0	0.717137163
2.0	3.0	01.0	0.507092552
2.0	3.0	03.0	-0.516397779
2.0	3.0	05.0	0.690065559
2.0	4.0	02.0	0.534522483
2.0	4.0	04.0	-0.509647191
2.0	4.0	06.0	0.674199863
2.0	5.0	03.0	0.550481882
2.0	5.0	05.0	-0.506369683
2.0	5.0	07.0	0.663746518
2.0	6.0	04.0	0.560968194
2.0	6.0	06.0	-0.504524980
2.0	6.0	08.0	0.656330123
2.0	7.0	05.0	0.568398560
2.0	7.0	07.0	-0.503382225
2.0	7.0	09.0	0.650791373
2.0	8.0	06.0	0.573944043
2.0	8.0	08.0	-0.502624690
2.0	9.0	10.0	0.646495672
2.0	9.0	07.0	0.578243309
2.0	9.0	09.0	-0.502096445
2.5	0.5	03.0	0.408248290
2.5	1.5	02.0	-0.327326835
2.5	1.5	04.0	0.267261241
2.5	2.5	01.0	0.358568581
2.5	2.5	03.0	-0.223606797
2.5	2.5	05.0	0.209980262
2.5	3.5	02.0	0.267261242
2.5	3.5	04.0	-0.180187492
2.5	3.5	06.0	0.177667263
2.5	4.5	03.0	0.224733287
2.5	4.5	05.0	-0.155043418
2.5	4.5	07.0	0.156446554
2.5	5.5	04.0	0.198332206
2.5	5.5	06.0	-0.138169856
2.5	5.5	08.0	0.141219757
2.5	6.5	05.0	0.179743406
2.5	6.5	07.0	-0.125845556
2.5	6.5	09.0	0.129640744
2.5	7.5	06.0	0.165683374
2.5	7.5	08.0	-0.116335010
2.5	7.5	10.0	0.120467356
2.5	8.5	07.0	0.154542025
2.5	8.5	09.0	-0.108707069
2.5	9.5	08.0	0.145418762
3.0	0.0	03.0	1.000000000
3.0	1.0	02.0	-0.654653671
3.0	1.0	04.0	0.755928947

A	B	C	(AB/C)
3.0	2.0	01.0	0.507092552
3.0	2.0	03.0	-0.516397779
3.0	2.0	05.0	0.690065559
3.0	3.0	00.0	-0.377964473
3.0	3.0	02.0	0.436435780
3.0	3.0	04.0	-0.483493777
3.0	3.0	06.0	0.657951695
3.0	4.0	01.0	-0.436435780
3.0	4.0	03.0	0.426401433
3.0	4.0	05.0	-0.468807230
3.0	4.0	07.0	0.638690385
3.0	5.0	02.0	-0.465242105
3.0	5.0	04.0	0.424052095
3.0	5.0	06.0	-0.460566186
3.0	5.0	08.0	0.625786217
3.0	6.0	03.0	-0.482804549
3.0	6.0	05.0	0.423659273
3.0	6.0	07.0	-0.455326355
3.0	6.0	09.0	0.616514799
3.0	7.0	04.0	-0.494727444
3.0	7.0	06.0	0.423885767
3.0	7.0	08.0	-0.451717370
3.0	7.0	10.0	0.609521966
3.0	8.0	05.0	-0.503382225
3.0	8.0	07.0	0.424314585
3.0	8.0	09.0	-0.449088713
3.0	9.0	06.0	-0.509962665
3.0	9.0	08.0	0.424795395
3.5	0.5	04.0	0.353553390
3.5	1.5	03.0	-0.272165526
3.5	1.5	05.0	0.228217732
3.5	2.5	02.0	0.267261242
3.5	2.5	04.0	-0.180187492
3.5	2.5	06.0	0.177667263
3.5	3.5	01.0	-0.308606700
3.5	3.5	03.0	0.184637236
3.5	3.5	05.0	-0.142653497
3.5	3.5	07.0	0.149360037
3.5	4.5	02.0	-0.232621052
3.5	4.5	04.0	0.149925056
3.5	4.5	06.0	-0.121369846
3.5	4.5	08.0	0.130892578
3.5	5.5	03.0	-0.197104132
3.5	5.5	05.0	0.129718630
3.5	5.5	07.0	-0.107321451
3.5	5.5	09.0	0.117717739
3.5	6.5	04.0	-0.174912565
3.5	6.5	06.0	0.116085898
3.5	6.5	08.0	-0.971941027
3.5	6.5	10.0	0.107749279
3.5	7.5	05.0	-0.159183436
3.5	7.5	07.0	0.106078646
3.5	7.5	09.0	-0.894606129
3.5	8.5	06.0	-0.147213541
3.5	8.5	08.0	0.983210288

A	B	C	(AB/C)
3.5	9.5	07.0	-0.137676978
4.0	0.0	04.0	1.000000000
4.0	1.0	03.0	-0.666666667
4.0	1.0	05.0	0.745355994
4.0	2.0	02.0	0.534522483
4.0	2.0	04.0	-0.509647191
4.0	2.0	06.0	0.674199863
4.0	3.0	01.0	-0.436435780
4.0	3.0	03.0	0.426401433
4.0	3.0	05.0	-0.468807230
4.0	3.0	07.0	0.638690385
4.0	4.0	00.0	0.333333333
4.0	4.0	02.0	-0.379868588
4.0	4.0	04.0	0.402291140
4.0	4.0	06.0	-0.449466575
4.0	4.0	08.0	0.617033532
4.0	5.0	01.0	0.389249472
4.0	5.0	03.0	-0.373978796
4.0	5.0	05.0	0.392232270
4.0	5.0	07.0	-0.438137990
4.0	5.0	09.0	0.602340150
4.0	6.0	02.0	0.418121005
4.0	6.0	04.0	-0.373978796
4.0	6.0	06.0	0.386952994
4.0	6.0	08.0	-0.430695614
4.0	6.0	10.0	0.591678420
4.0	7.0	03.0	0.436308594
4.0	7.0	05.0	-0.375198959
4.0	7.0	07.0	0.383806983
4.0	7.0	09.0	-0.425435629
4.0	8.0	04.0	0.448957840
4.0	8.0	06.0	-0.376632388
4.0	8.0	08.0	0.381770857
4.0	9.0	05.0	0.458312133
4.0	9.0	07.0	-0.378009476
4.5	0.5	05.0	0.316227766
4.5	1.5	04.0	-0.238365647
4.5	1.5	06.0	0.202259958
4.5	2.5	03.0	0.224733287
4.5	2.5	05.0	-0.155043418
4.5	2.5	07.0	0.156446554
4.5	3.5	02.0	-0.232621052
4.5	3.5	04.0	0.149925056
4.5	3.5	06.0	-0.121369846
4.5	3.5	08.0	0.130892578
4.5	4.5	01.0	0.275240941
4.5	4.5	03.0	-0.161937568
4.5	4.5	05.0	0.119352479
4.5	4.5	07.0	-0.102460140
4.5	4.5	09.0	0.114286008
4.5	5.5	02.0	0.209060502
4.5	5.5	04.0	-0.132221471
4.5	5.5	06.0	0.101971067
4.5	5.5	08.0	-0.900864509
4.5	5.5	10.0	0.102481708

A	B	C	(AB/C)
4.5	6.5	03.0	0.178122238
4.5	6.5	05.0	-0.114880750
4.5	6.5	07.0	0.904641736
4.5	6.5	09.0	-0.812329574
4.5	7.5	04.0	0.158730567
4.5	7.5	06.0	-0.103145027
4.5	7.5	08.0	0.821440097
4.5	8.5	05.0	0.144931022
4.5	8.5	07.0	-0.945023692
4.5	9.5	06.0	0.134386961
5.0	0.0	05.0	1.000000000
5.0	1.0	04.0	-0.674199861
5.0	1.0	06.0	0.738548946
5.0	2.0	03.0	0.550481882
5.0	2.0	05.0	-0.506369683
5.0	2.0	07.0	0.663746518
5.0	3.0	02.0	-0.465242105
5.0	3.0	04.0	0.424052095
5.0	3.0	06.0	-0.460566186
5.0	3.0	08.0	0.625786217
5.0	4.0	01.0	0.389249472
5.0	4.0	03.0	-0.373978796
5.0	4.0	05.0	0.392232270
5.0	4.0	07.0	-0.438137990
5.0	4.0	09.0	0.602340150
5.0	5.0	00.0	-0.301511344
5.0	5.0	02.0	0.341394371
5.0	5.0	04.0	-0.354787437
5.0	5.0	06.0	0.377627455
5.0	5.0	08.0	-0.424671602
5.0	5.0	10.0	0.586274852
5.0	6.0	01.0	-0.354787437
5.0	6.0	03.0	0.337963184
5.0	6.0	05.0	-0.347366737
5.0	6.0	07.0	0.369318442
5.0	6.0	09.0	-0.415654192
5.0	7.0	02.0	-0.383214231
5.0	7.0	04.0	0.339380227
5.0	7.0	06.0	-0.343816758
5.0	7.0	08.0	0.364004230
5.0	8.0	03.0	-0.401560100
5.0	8.0	05.0	0.341605695
5.0	8.0	07.0	-0.341922436
5.0	9.0	04.0	-0.414558922
5.0	9.0	06.0	0.343816758
5.5	0.5	06.0	0.288675134
5.5	1.5	05.0	-0.214834462
5.5	1.5	07.0	0.183449846
5.5	2.5	04.0	0.198332206
5.5	2.5	06.0	-0.138169856
5.5	2.5	08.0	0.141219757
5.5	3.5	03.0	-0.197104132
5.5	3.5	05.0	0.129718630
5.5	3.5	07.0	-0.107321451
5.5	3.5	09.0	0.117717739

A	B	C	(AB/C)
5.5	4.5	02.0	0.209060502
5.5	4.5	04.0	-0.132221471
5.5	4.5	06.0	0.101971067
5.5	4.5	08.0	-0.900864509
5.5	4.5	10.0	0.102481708
5.5	5.5	01.0	-0.250872602
5.5	5.5	03.0	0.146342351
5.5	5.5	05.0	-0.105700331
5.5	5.5	07.0	0.863664423
5.5	5.5	09.0	-0.788648381
5.5	6.5	02.0	-0.191607115
5.5	6.5	04.0	0.119989030
5.5	6.5	06.0	-0.906036711
5.5	6.5	08.0	0.761369471
5.5	7.5	03.0	-0.163936224
5.5	7.5	05.0	0.104594955
5.5	7.5	07.0	-0.805918912
5.5	8.5	04.0	-0.146568712
5.5	8.5	06.0	0.941580972
5.5	9.5	05.0	-0.134180053
6.0	0.0	06.0	1.000000000
6.0	1.0	05.0	-0.679266221
6.0	1.0	07.0	0.733795283
6.0	2.0	04.0	0.560968194
6.0	2.0	06.0	-0.504524980
6.0	2.0	08.0	0.656330123
6.0	3.0	03.0	-0.482804549
6.0	3.0	05.0	0.423659273
6.0	3.0	07.0	-0.455326355
6.0	3.0	09.0	0.616514799
6.0	4.0	02.0	0.418121005
6.0	4.0	04.0	-0.373978796
6.0	4.0	06.0	0.386952994
6.0	4.0	08.0	-0.430695614
6.0	4.0	10.0	0.591678420
6.0	5.0	01.0	-0.354787437
6.0	5.0	03.0	0.337963184
6.0	5.0	05.0	-0.347366737
6.0	5.0	07.0	0.369318442
6.0	5.0	09.0	-0.415654192
6.0	6.0	00.0	0.277350098
6.0	6.0	02.0	-0.312893109
6.0	6.0	04.0	0.321964353
6.0	6.0	06.0	-0.335530800
6.0	6.0	08.0	0.358913012
6.0	7.0	01.0	0.328165061
6.0	7.0	03.0	-0.311047116
6.0	7.0	05.0	0.316265418
6.0	7.0	07.0	-0.329015018
6.0	8.0	02.0	0.355944984
6.0	8.0	04.0	-0.313377089
6.0	8.0	06.0	0.313860323
6.0	9.0	03.0	0.374210290
6.0	9.0	05.0	-0.316265418
6.5	0.5	07.0	0.267261242

A	B	C	(AB/C)
6.5	1.5	06.0	-0.197202659
6.5	1.5	08.0	0.169030850
6.5	2.5	05.0	0.179743406
6.5	2.5	07.0	-0.125845556
6.5	2.5	09.0	0.129640744
6.5	3.5	04.0	-0.174912565
6.5	3.5	06.0	0.116085898
6.5	3.5	08.0	-0.971941027
6.5	3.5	10.0	0.107749279
6.5	4.5	03.0	0.178122238
6.5	4.5	05.0	-0.114880750
6.5	4.5	07.0	0.904641736
6.5	4.5	09.0	-0.812329574
6.5	5.5	02.0	-0.191607115
6.5	5.5	04.0	0.119989030
6.5	5.5	06.0	-0.906036711
6.5	5.5	08.0	0.761369471
6.5	6.5	01.0	0.232047740
6.5	6.5	03.0	-0.134687352
6.5	6.5	05.0	0.962365021
6.5	6.5	07.0	-0.769413421
6.5	7.5	02.0	0.177972492
6.5	7.5	04.0	-0.110795532
6.5	7.5	06.0	0.827094575
6.5	8.5	03.0	0.152770711
6.5	8.5	05.0	-0.968361126
6.5	9.5	04.0	0.136946943
7.0	0.0	07.0	1.000000000
7.0	1.0	06.0	-0.683130051
7.0	1.0	08.0	0.730296743
7.0	2.0	05.0	0.568398560
7.0	2.0	07.0	-0.503382225
7.0	2.0	09.0	0.650791373
7.0	3.0	04.0	-0.494727444
7.0	3.0	06.0	0.423885767
7.0	3.0	08.0	-0.451717370
7.0	3.0	10.0	0.609521966
7.0	4.0	03.0	0.436308594
7.0	4.0	05.0	-0.375198959
7.0	4.0	07.0	0.383806983
7.0	4.0	09.0	-0.425435629
7.0	5.0	02.0	-0.383214231
7.0	5.0	04.0	0.339330227
7.0	5.0	06.0	-0.343816758
7.0	5.0	08.0	0.364004230
7.0	6.0	01.0	0.328165061
7.0	6.0	03.0	-0.311047116
7.0	6.0	05.0	0.316265418
7.0	6.0	07.0	-0.329015018
7.0	7.0	00.0	-0.258192889
7.0	7.0	02.0	0.290627863
7.0	7.0	04.0	-0.297295611
7.0	7.0	06.0	0.306296312
7.0	8.0	01.0	-0.306785995
7.0	8.0	03.0	0.289862044

A	B	C	(AB/C)
7.0	8.0	05.0	-0.292804882
7.0	9.0	02.0	-0.333848930
7.0	9.0	04.0	0.292804881
7.5	0.5	08.0	0.250000000
7.5	1.5	07.0	-0.183339699
7.5	1.5	09.0	0.157531509
7.5	2.5	06.0	0.165683374
7.5	2.5	08.0	-0.116335010
7.5	2.5	10.0	0.120467356
7.5	3.5	05.0	-0.159183436
7.5	3.5	07.0	0.106078646
7.5	3.5	09.0	-0.894606129
7.5	4.5	04.0	0.158730567
7.5	4.5	06.0	-0.103145027
7.5	4.5	08.0	0.821440097
7.5	5.5	03.0	-0.163936224
7.5	5.5	05.0	0.104594955
7.5	5.5	07.0	-0.805918912
7.5	6.5	02.0	0.177972492
7.5	6.5	04.0	-0.110795532
7.5	6.5	06.0	0.827094575
7.5	7.5	01.0	-0.216930457
7.5	7.5	03.0	0.125513946
7.5	7.5	05.0	-0.890976883
7.5	8.5	02.0	-0.166924465
7.5	8.5	04.0	0.103522158
7.5	9.5	03.0	-0.143665705
8.0	0.0	08.0	1.000000000
8.0	1.0	07.0	-0.685994340
8.0	1.0	09.0	0.727606875
8.0	2.0	06.0	0.573944043
8.0	2.0	08.0	-0.502624690
8.0	2.0	10.0	0.646495672
8.0	3.0	05.0	-0.503382225
8.0	3.0	07.0	0.424314585
8.0	3.0	09.0	-0.449088713
8.0	4.0	04.0	0.448957840
8.0	4.0	06.0	-0.376632388
8.0	4.0	08.0	0.381770857
8.0	5.0	03.0	-0.401560100
8.0	5.0	05.0	0.341605695
8.0	5.0	07.0	-0.341922436
8.0	6.0	02.0	0.355944984
8.0	6.0	04.0	-0.313377089
8.0	6.0	06.0	0.313860323
8.0	7.0	01.0	-0.306785995
8.0	7.0	03.0	0.289862044
8.0	7.0	05.0	-0.292804882
8.0	8.0	00.0	0.242535625
8.0	8.0	02.0	-0.272586510
8.0	8.0	04.0	0.277779101
8.0	9.0	01.0	0.289121655
8.0	9.0	03.0	-0.272586510
8.5	0.5	09.0	0.235702260
8.5	1.5	08.0	-0.172061800

A	B	C	(AB/C)
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8.5	1.5	10.0	0.148087219
8.5	2.5	07.0	0.154542025
8.5	2.5	09.0	-0.108707069
8.5	3.5	06.0	-0.147213541
8.5	3.5	08.0	0.983210288
8.5	4.5	05.0	0.144931022
8.5	4.5	07.0	-0.945023692
8.5	5.5	04.0	-0.146568712
8.5	5.5	06.0	0.941580972
8.5	6.5	03.0	0.152770711
8.5	6.5	05.0	-0.968361126
8.5	7.5	02.0	-0.166924465
8.5	7.5	04.0	0.103522158
8.5	8.5	01.0	0.204439882
8.5	8.5	03.0	-0.118033421
8.5	9.5	02.0	0.157728793
9.0	0.0	09.0	1.000000000
9.0	1.0	08.0	-0.682247201
9.0	1.0	10.0	0.725476250
9.0	2.0	07.0	0.578243309
9.0	2.0	09.0	-0.502096445
9.0	3.0	06.0	-0.509962665
9.0	3.0	08.0	0.424795395
9.0	4.0	05.0	0.458312133
9.0	4.0	07.0	-0.378009476
9.0	5.0	04.0	-0.414558922
9.0	5.0	06.0	0.343816753
9.0	6.0	03.0	0.374210290
9.0	6.0	05.0	-0.316265413
9.0	7.0	02.0	-0.333048230
9.0	7.0	04.0	0.292004831
9.0	8.0	01.0	0.289121655
9.0	8.0	03.0	-0.272586510
9.0	9.0	00.0	-0.229415733
9.0	9.0	02.0	0.257570042
9.5	0.5	10.0	0.223606797
9.5	1.5	09.0	-0.162650012
9.5	2.5	08.0	0.145418762
9.5	3.5	07.0	-0.137676978
9.5	4.5	06.0	0.134386961
9.5	5.5	05.0	-0.134180053
9.5	6.5	04.0	-0.136946943
9.5	7.5	03.0	-0.143665705
9.5	8.5	02.0	0.157728793
9.5	9.5	01.0	-0.193891683

SUPPLEMENT TO ANL-5823

$$a) A_x(J; S'l'; S l; n) =$$

$$5 (22 / n) \left[(2l + 1) 5 \right]^{1/2} \sum_L (L l / l') (n 2 / L) \left[(2n + 1) (2L + 1) \right]^{1/2}$$

$$\times W(l l' S S'; L J) \sum_{S''} g(S'' S) \sum_{S'''} (-1)^{l' + S''' - J} g_1(S''' S'')$$

$$\times g(S S''') \begin{pmatrix} S''' & S'' & 2 \\ S & S' & L \\ 2 & 2 & n \end{pmatrix}.$$

J	S'	ℓ'	S	ℓ	n	A_x
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05	05	00	05	00	20	-0016.000000
05	05	00	15	20	00	0005.656854
05	05	00	15	20	20	-0005.656854
05	05	00	15	20	40	0000.000000
05	05	10	05	10	20	-0016.000000
05	05	10	15	10	20	-0005.656854
05	05	10	15	10	40	0000.000000
05	15	10	05	10	20	-0005.656854
05	15	10	05	10	40	0000.000000
05	15	10	15	10	20	0000.000000
05	15	10	15	10	40	0000.000000
05	15	20	05	00	00	0005.656854
05	15	20	05	00	20	-0005.656854
05	15	20	05	00	40	0000.000000
05	15	20	15	20	20	0000.000000
05	15	20	15	20	40	0000.000000
15	05	10	05	10	20	-0016.000000
15	05	10	15	10	20	0001.788854
15	05	10	15	10	40	0000.000000
15	05	10	15	30	00	0005.366563
15	05	10	15	30	20	-0005.366563
15	05	10	15	30	40	0000.000000
15	05	20	05	20	20	-0016.000000
15	05	20	15	00	00	-0004.000000
15	05	20	15	00	20	0004.000000
15	05	20	15	00	40	0000.000000
15	05	20	15	20	20	-0004.000000
15	05	20	15	20	40	0000.000000
15	15	00	05	20	00	-0004.000000
15	15	00	05	20	20	0004.000000
15	15	00	05	20	40	0000.000000
15	15	00	15	00	20	0008.000000
15	15	00	15	20	00	-0008.000000
15	15	00	15	20	20	0008.000000
15	15	00	15	20	40	0000.000000
15	15	10	05	10	20	0001.788854
15	15	10	05	10	40	0000.000000
15	15	10	15	10	20	0014.400000
15	15	10	15	10	40	0000.000000
15	15	10	15	30	00	-0004.800000
15	15	10	15	30	20	0004.800000
15	15	10	15	30	40	0000.000000
15	15	20	05	20	20	-0004.000000
15	15	20	05	20	40	0000.000000
15	15	20	15	00	00	-0008.000000
15	15	20	15	00	20	0008.000000
15	15	20	15	00	40	0000.000000
15	15	20	15	20	20	0008.000000
15	15	20	15	20	40	0000.000000
15	15	30	05	10	00	0005.366563
15	15	30	05	10	20	-0005.366563
15	15	30	05	10	40	0000.000000
15	15	30	15	10	00	-0004.800000
15	15	30	15	10	20	0004.800000
15	15	30	15	10	40	0000.000000

J	S'	<i>l</i> '	S	<i>l</i>	n	A _x
15	15	30	15	30	20	0001.600000
15	15	30	15	30	40	0000.000000
25	05	20	05	20	20	-0016.000000
25	05	20	15	20	20	0002.138090
25	05	20	15	20	40	0000.000000
25	05	20	15	40	00	0005.237229
25	05	20	15	40	20	-0005.237229
25	05	20	15	40	40	0000.000000
25	05	30	05	30	20	-0016.000000
25	05	30	15	10	00	-0004.381781
25	05	30	15	10	20	0004.381780
25	05	30	15	10	40	0000.000000
25	05	30	15	30	20	-0003.577709
25	05	30	15	30	40	0000.000000
25	15	10	05	30	00	-0004.381780
25	15	10	05	30	20	0004.381780
25	15	10	05	30	40	0000.000000
25	15	10	15	10	20	0006.400000
25	15	10	15	10	40	0000.000000
25	15	10	15	30	00	-0007.838367
25	15	10	15	30	20	0007.838367
25	15	10	15	30	40	0000.000000
25	15	20	05	20	20	0002.138090
25	15	20	05	20	40	0000.000000
25	15	20	15	20	20	0013.714286
25	15	20	15	20	40	0000.000000
25	15	20	15	40	00	-0005.598834
25	15	20	15	40	20	0005.598834
25	15	20	15	40	40	0000.000000
25	15	30	05	30	20	-0003.577709
25	15	30	05	30	40	0000.000000
25	15	30	15	10	00	-0007.838367
25	15	30	15	10	20	0007.838367
25	15	30	15	10	40	0000.000000
25	15	30	15	30	20	0009.600000
25	15	30	15	30	40	0000.000000
25	15	40	05	20	00	0005.237229
25	15	40	05	20	20	-0005.237229
25	15	40	05	20	40	0000.000000
25	15	40	15	20	00	-0005.598834
25	15	40	15	20	20	0005.598834
25	15	40	15	20	40	0000.000000
25	15	40	15	40	20	0002.285714
25	15	40	15	40	40	0000.000000
35	05	30	05	30	20	-0016.000000
35	05	30	15	30	20	0002.309401
35	05	30	15	30	40	0000.000000
35	05	30	15	50	00	0005.163978
35	05	30	15	50	20	-0005.163978
35	05	30	15	50	40	0000.000000
35	05	40	05	40	20	-0016.000000
35	05	40	15	20	00	-0004.535574
35	05	40	15	20	20	0004.535574
35	05	40	15	20	40	0000.000000
35	05	40	15	40	20	-0003.380617

J	S'	ℓ'	S	ℓ	n	A _x
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35	05	40	15	40	40	0000.000000
35	15	20	05	40	00	-0004.535574
35	15	20	05	40	20	0004.535574
35	15	20	05	40	40	0000.000000
35	15	20	15	20	20	0005.714286
35	15	20	15	20	40	0000.000000
35	15	20	15	40	00	-0007.666519
35	15	20	15	40	20	0007.666519
35	15	20	15	40	40	0000.000000
35	15	30	05	30	20	0002.309401
35	15	30	05	30	40	0000.000000
35	15	30	15	30	20	0013.333333
35	15	30	15	30	40	0000.000000
35	15	30	15	50	00	-0005.962848
35	15	30	15	50	20	0005.962848
35	15	30	15	50	40	0000.000000
35	15	40	05	40	20	-0003.380617
35	15	40	05	40	40	0000.000000
35	15	40	15	20	00	-0007.666519
35	15	40	15	20	20	0007.666519
35	15	40	15	20	40	0000.000000
35	15	40	15	40	20	0010.285714
35	15	40	15	40	40	0000.000000
35	15	50	05	30	00	0005.163978
35	15	50	05	30	20	-0005.163978
35	15	50	05	30	40	0000.000000
35	15	50	15	30	00	-0005.962848
35	15	50	15	30	20	0005.962848
35	15	50	15	30	40	0000.000000
35	15	50	15	50	20	0002.666667
35	15	50	15	50	40	0000.000000
45	05	40	05	40	20	-0016.000000
45	05	40	15	40	20	0002.412091
45	05	40	15	40	40	0000.000000
45	05	40	15	60	00	0005.116817
45	05	40	15	60	20	-0005.116817
45	05	40	15	60	40	0000.000000
45	05	50	05	50	20	-0016.000000
45	05	50	15	30	00	-0004.618802
45	05	50	15	30	20	0004.618802
45	05	50	15	30	40	0000.000000
45	05	50	15	50	20	-0003.265986
45	05	50	15	50	40	0000.000000
45	15	30	05	50	00	-0004.618802
45	15	30	05	50	20	0004.618802
45	15	30	05	50	40	0000.000000
45	15	30	15	30	20	0005.333333
45	15	30	15	30	40	0000.000000
45	15	30	15	50	00	-0007.542472
45	15	30	15	50	20	0007.542472
45	15	30	15	50	40	0000.000000
45	15	40	05	40	20	0002.412091
45	15	40	05	40	40	0000.000000
45	15	40	15	40	20	0013.090909
45	15	40	15	40	40	0000.000000

J	S'	ℓ'	S	ℓ	n	A_x
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45	15	40	15	60	00	-0006.171114
45	15	40	15	60	20	0006.171114
45	15	40	15	60	40	0000.000000
45	15	50	05	50	20	-0003.265986
45	15	50	05	50	40	0000.000000
45	15	50	15	30	00	-0007.542472
45	15	50	15	30	20	0007.542472
45	15	50	15	30	40	0000.000000
45	15	50	15	50	20	0010.666667
45	15	50	15	50	40	0000.000000
45	15	60	05	40	00	0005.116817
45	15	60	05	40	20	-0005.116817
45	15	60	05	40	40	0000.000000
45	15	60	15	40	00	-0006.171114
45	15	60	15	40	20	0006.171114
45	15	60	15	40	40	0000.000000
45	15	60	15	60	20	0002.909091
45	15	60	15	60	40	0000.000000

$$b) \quad A_Y(J; S' \ell'; S \ell; n) =$$

$$5 \left[5(2\ell + 1) \right]^{1/2} W(\ell \ell' S S'; n J) (n \ell / \ell') \sum_L \left[(2n+1)(2L+1) \right]^{1/2}$$

$$\times (2\ell / L)(L+1/n) \sum_{S''} g(S'' S') \sum_{S'''} (-)^{\ell' + S''' - J} g(S S''') g_1(S''' S'')$$

$$\times \begin{pmatrix} S''' & S'' & 2 \\ S & S' & n \\ 2 & 2 & L \end{pmatrix}.$$

J	S'	L'	S	L	n	A _y
05	05	00	05	00	00	-0016.000000
05	05	00	15	20	20	-0000.000000
05	05	10	05	10	00	-0016.000000
05	05	10	15	10	20	-0000.000000
05	15	10	05	10	20	-0000.000000
05	15	10	15	10	00	0008.000000
05	15	10	15	10	20	-0000.000000
05	15	20	05	00	20	-0000.000000
05	15	20	15	20	00	0008.000000
05	15	20	15	20	20	-0000.000000
15	05	10	05	10	00	-0016.000000
15	05	10	15	10	20	0000.000000
15	05	10	15	30	20	-0000.000000
15	05	20	05	20	00	-0016.000000
15	05	20	15	00	20	0000.000000
15	05	20	15	20	20	-0000.000000
15	15	00	05	20	20	0000.000000
15	15	00	15	00	00	0008.000000
15	15	00	15	20	20	0000.000000
15	15	10	05	10	20	0000.000000
15	15	10	15	10	00	0008.000000
15	15	10	15	10	20	0000.000000
15	15	10	15	30	20	0000.000000
15	15	20	05	20	20	-0000.000000
15	15	20	15	00	20	0000.000000
15	15	20	15	20	00	0008.000000
15	15	20	15	20	20	0000.000000
15	15	30	05	10	20	-0000.000000
15	15	30	15	10	20	0000.000000
15	15	30	15	30	00	0008.000000
15	15	30	15	30	20	-0000.000000
25	05	20	05	20	00	-0016.000000
25	05	20	15	20	20	0000.000000
25	05	20	15	40	20	-0000.000000
25	05	30	05	30	00	-0016.000000
25	05	30	15	10	20	0000.000000
25	05	30	15	30	20	0000.000000
25	15	10	05	30	20	0000.000000
25	15	10	15	10	00	0008.000000
25	15	10	15	10	20	0000.000000
25	15	10	15	30	20	0000.000000
25	15	20	05	20	20	0000.000000
25	15	20	15	20	00	0008.000000
25	15	20	15	20	20	0000.000000
25	15	20	15	40	20	0000.000000
25	15	30	05	30	20	-0000.000000
25	15	30	15	10	20	0000.000000
25	15	30	15	30	00	0008.000000
25	15	30	15	30	20	0000.000000
25	15	40	05	20	20	-0000.000000
25	15	40	15	20	20	0000.000000
25	15	40	15	40	00	0008.000000
25	15	40	15	40	20	-0000.000000
35	05	30	05	30	00	-0016.000000
35	05	30	15	30	20	0000.000000

J	S'	L'	S	L	n	A _Y
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35	05	30	15	50	20	-0000.000000
35	05	40	05	40	00	-0016.000000
35	05	40	15	20	20	0000.000000
35	05	40	15	40	20	0000.000000
35	15	20	05	40	20	0000.000000
35	15	20	15	20	00	0008.000000
35	15	20	15	20	20	0000.000000
35	15	20	15	40	20	0000.000000
35	15	30	05	30	20	0000.000000
35	15	30	15	30	00	0008.000000
35	15	30	15	30	20	0000.000000
35	15	30	15	50	20	0000.000000
35	15	40	05	40	20	-0000.000000
35	15	40	15	20	20	0000.000000
35	15	40	15	40	00	0008.000000
35	15	40	15	40	20	0000.000000
35	15	50	05	30	20	-0000.000000
35	15	50	15	30	20	0000.000000
35	15	50	15	50	00	0008.000000
35	15	50	15	50	20	-0000.000000
45	05	40	05	40	00	-0016.000000
45	05	40	15	40	20	0000.000000
45	05	40	15	60	20	-0000.000000
45	05	50	05	50	00	-0016.000000
45	05	50	15	30	20	0000.000000
45	05	50	15	50	20	0000.000000
45	15	30	15	30	00	0008.000000
45	15	40	15	40	00	0008.000000
45	15	50	15	50	00	0008.000000
45	15	60	15	60	00	0008.000000

$$c) \quad A_Z(J; S'l'; Sl; n) =$$

$$5 \left[5(2l+1) \right]^{1/2} \sum_{L'} (L'l / l') W(l'l S^2 S; L'J)$$

$$\times \sum_L \left[(2L+1)(2L'+1) \right]^{1/2} (2^2 / L) (L^2 / L') B(L L'; n) \sum_{S''} g(S'' S')$$

$$\times \sum_{S'''} g(S S''') g_1(S''' S'') \begin{pmatrix} S''' & S'' & 2 \\ S & S' & L' \\ 2 & 2 & L \end{pmatrix}$$

J	S'	ℓ'	S	ℓ	n	A _z
0.5	0.5	0.0	0.5	0.0	1.0	-032.0000005
0.5	0.5	0.0	1.5	2.0	1.0	003.3941126
0.5	0.5	0.0	1.5	2.0	3.0	-003.3941122
0.5	0.5	1.0	0.5	1.0	1.0	-032.0000005
0.5	0.5	1.0	1.5	1.0	1.0	003.3941127
0.5	0.5	1.0	1.5	1.0	3.0	-003.3941122
0.5	1.5	1.0	0.5	1.0	1.0	003.3941126
0.5	1.5	1.0	0.5	1.0	3.0	-003.3941123
0.5	1.5	1.0	1.5	1.0	1.0	020.8000004
0.5	1.5	1.0	1.5	1.0	3.0	-004.7999996
0.5	1.5	2.0	0.5	0.0	1.0	003.3941126
0.5	1.5	2.0	0.5	0.0	3.0	-003.3941123
0.5	1.5	2.0	1.5	2.0	1.0	020.8000003
0.5	1.5	2.0	1.5	2.0	3.0	-004.7999995
1.5	0.5	1.0	0.5	1.0	1.0	-032.0000006
1.5	0.5	1.0	1.5	1.0	1.0	-001.0733127
1.5	0.5	1.0	1.5	1.0	3.0	001.0733125
1.5	0.5	1.0	1.5	3.0	1.0	003.2199380
1.5	0.5	1.0	1.5	3.0	3.0	-003.2199375
1.5	0.5	2.0	0.5	2.0	1.0	-032.0000002
1.5	0.5	2.0	1.5	0.0	1.0	-002.4000001
1.5	0.5	2.0	1.5	0.0	3.0	002.3999998
1.5	0.5	2.0	1.5	2.0	1.0	002.4000001
1.5	0.5	2.0	1.5	2.0	3.0	-002.3999997
1.5	1.5	0.0	0.5	2.0	1.0	-002.4000000
1.5	1.5	0.0	0.5	2.0	3.0	002.3999998
1.5	1.5	0.0	1.5	0.0	1.0	016.0000003
1.5	1.5	0.0	1.5	2.0	1.0	-004.8000001
1.5	1.5	0.0	1.5	2.0	3.0	004.7999995
1.5	1.5	1.0	0.5	1.0	1.0	-001.0733126
1.5	1.5	1.0	0.5	1.0	3.0	001.0733125
1.5	1.5	1.0	1.5	1.0	1.0	012.1600002
1.5	1.5	1.0	1.5	1.0	3.0	003.8399997
1.5	1.5	1.0	1.5	3.0	1.0	-002.8800001
1.5	1.5	1.0	1.5	3.0	3.0	002.8799997
1.5	1.5	2.0	0.5	2.0	1.0	002.4000000
1.5	1.5	2.0	0.5	2.0	3.0	-002.3999998
1.5	1.5	2.0	1.5	0.0	1.0	-004.8000002
1.5	1.5	2.0	1.5	0.0	3.0	004.7999996
1.5	1.5	2.0	1.5	2.0	1.0	016.0000001
1.5	1.5	2.0	1.5	2.0	3.0	006.0000000
1.5	1.5	3.0	0.5	1.0	1.0	003.2199379
1.5	1.5	3.0	0.5	1.0	3.0	-003.2199377
1.5	1.5	3.0	1.5	1.0	1.0	-002.8800001
1.5	1.5	3.0	1.5	1.0	3.0	002.8799998
1.5	1.5	3.0	1.5	3.0	1.0	019.8400003
1.5	1.5	3.0	1.5	3.0	3.0	-003.8399996
2.5	0.5	2.0	0.5	2.0	1.0	-032.0000003
2.5	0.5	2.0	1.5	2.0	1.0	-001.2828540
2.5	0.5	2.0	1.5	2.0	3.0	001.2828538
2.5	0.5	2.0	1.5	4.0	1.0	003.1423377
2.5	0.5	2.0	1.5	4.0	3.0	-003.1423373
2.5	0.5	3.0	0.5	3.0	1.0	-032.0000003

J	S'	ℓ'	S	ℓ	n	A _z
2.5	0.5	3.0	1.5	1.0	1.0	-002.6290684
2.5	0.5	3.0	1.5	1.0	3.0	002.6290680
2.5	0.5	3.0	1.5	3.0	1.0	002.1466253
2.5	0.5	3.0	1.5	3.0	3.0	-002.1466250
2.5	1.5	1.0	0.5	3.0	1.0	-002.6290683
2.5	1.5	1.0	0.5	3.0	3.0	002.6290681
2.5	1.5	1.0	1.5	1.0	1.0	016.9600003
2.5	1.5	1.0	1.5	1.0	3.0	-000.9599999
2.5	1.5	1.0	1.5	3.0	1.0	-004.7030204
2.5	1.5	1.0	1.5	3.0	3.0	004.7030199
2.5	1.5	2.0	0.5	2.0	1.0	-001.2828540
2.5	1.5	2.0	0.5	2.0	3.0	001.2828539
2.5	1.5	2.0	1.5	2.0	1.0	012.5714286
2.5	1.5	2.0	1.5	2.0	3.0	003.4285711
2.5	1.5	2.0	1.5	4.0	1.0	-003.3593003
2.5	1.5	2.0	1.5	4.0	3.0	003.3592999
2.5	1.5	3.0	0.5	3.0	1.0	002.1466253
2.5	1.5	3.0	0.5	3.0	3.0	-002.1466251
2.5	1.5	3.0	1.5	1.0	1.0	-004.7030205
2.5	1.5	3.0	1.5	1.0	3.0	004.7030199
2.5	1.5	3.0	1.5	3.0	1.0	015.0400002
2.5	1.5	3.0	1.5	3.0	3.0	000.9599999
2.5	1.5	4.0	0.5	2.0	1.0	003.1423376
2.5	1.5	4.0	0.5	2.0	3.0	-003.1423374
2.5	1.5	4.0	1.5	2.0	1.0	-003.3593003
2.5	1.5	4.0	1.5	2.0	3.0	003.3592999
2.5	1.5	4.0	1.5	4.0	1.0	019.4285717
2.5	1.5	4.0	1.5	4.0	3.0	-003.4285711
3.5	0.5	3.0	0.5	3.0	1.0	-032.0000004
3.5	0.5	3.0	1.5	3.0	1.0	-001.3856407
3.5	0.5	3.0	1.5	3.0	3.0	001.3856405
3.5	0.5	3.0	1.5	5.0	1.0	003.0983868
3.5	0.5	3.0	1.5	5.0	3.0	-003.0983863
3.5	0.5	4.0	0.5	4.0	1.0	-032.0000003
3.5	0.5	4.0	1.5	2.0	1.0	-002.7213443
3.5	0.5	4.0	1.5	2.0	3.0	002.7213439
3.5	0.5	4.0	1.5	4.0	1.0	002.0283703
3.5	0.5	4.0	1.5	4.0	3.0	-002.0283700
3.5	1.5	2.0	0.5	4.0	1.0	-002.7213442
3.5	1.5	2.0	0.5	4.0	3.0	002.7213440
3.5	1.5	2.0	1.5	2.0	1.0	017.3714287
3.5	1.5	2.0	1.5	2.0	3.0	-001.3714284
3.5	1.5	2.0	1.5	4.0	1.0	-004.5999114
3.5	1.5	2.0	1.5	4.0	3.0	004.5999108
3.5	1.5	3.0	0.5	3.0	1.0	-001.3856406
3.5	1.5	3.0	0.5	3.0	3.0	001.3856405
3.5	1.5	3.0	1.5	3.0	1.0	012.8000001
3.5	1.5	3.0	1.5	3.0	3.0	003.1999997
3.5	1.5	3.0	1.5	5.0	1.0	-003.5777088
3.5	1.5	3.0	1.5	5.0	3.0	003.5777084
3.5	1.5	4.0	0.5	4.0	1.0	002.0283702
3.5	1.5	4.0	0.5	4.0	3.0	-002.0283701
3.5	1.5	4.0	1.5	2.0	1.0	-004.5999114
3.5	1.5	4.0	1.5	2.0	3.0	004.5999108
3.5	1.5	4.0	1.5	4.0	1.0	014.6285716
3.5	1.5	4.0	1.5	4.0	3.0	001.3714284

J	S'	ℓ'	S	ℓ	n	A _z
3.5	1.5	5.0	0.5	3.0	1.0	003.0983867
3.5	1.5	5.0	0.5	3.0	3.0	-003.0983864
3.5	1.5	5.0	1.5	3.0	1.0	-003.5777088
3.5	1.5	5.0	1.5	3.0	3.0	003.5777084
3.5	1.5	5.0	1.5	5.0	1.0	019.2000003
3.5	1.5	5.0	1.5	5.0	3.0	-003.1999997
4.5	0.5	4.0	0.5	4.0	1.0	-032.0000004
4.5	0.5	4.0	1.5	4.0	1.0	-001.4472545
4.5	0.5	4.0	1.5	4.0	3.0	001.4472543
4.5	0.5	4.0	1.5	6.0	1.0	003.0700904
4.5	0.5	4.0	1.5	6.0	3.0	-003.0700900
4.5	0.5	5.0	0.5	5.0	1.0	-032.0000004
4.5	0.5	5.0	1.5	3.0	1.0	-002.7712814
4.5	0.5	5.0	1.5	3.0	3.0	002.7712810
4.5	0.5	5.0	1.5	5.0	1.0	001.9595919
4.5	0.5	5.0	1.5	5.0	3.0	-001.9595916
4.5	1.5	3.0	0.5	5.0	1.0	-002.7712813
4.5	1.5	3.0	0.5	5.0	3.0	002.7712811
4.5	1.5	3.0	1.5	3.0	1.0	017.6000002
4.5	1.5	3.0	1.5	3.0	3.0	-001.5999999
4.5	1.5	3.0	1.5	5.0	1.0	-004.5254835
4.5	1.5	3.0	1.5	5.0	3.0	004.5254830
4.5	1.5	4.0	0.5	4.0	1.0	-001.4472545
4.5	1.5	4.0	0.5	4.0	3.0	001.4472544
4.5	1.5	4.0	1.5	4.0	1.0	012.9454547
4.5	1.5	4.0	1.5	4.0	3.0	003.0545452
4.5	1.5	4.0	1.5	6.0	1.0	-003.7026683
4.5	1.5	4.0	1.5	6.0	3.0	003.7026679
4.5	1.5	5.0	0.5	5.0	1.0	001.9595918
4.5	1.5	5.0	0.5	5.0	3.0	-001.9595916
4.5	1.5	5.0	1.5	3.0	1.0	-004.5254835
4.5	1.5	5.0	1.5	3.0	3.0	004.5254830
4.5	1.5	5.0	1.5	5.0	1.0	014.4000001
4.5	1.5	5.0	1.5	5.0	3.0	001.5999999
4.5	1.5	6.0	0.5	4.0	1.0	003.0700903
4.5	1.5	6.0	0.5	4.0	3.0	-003.0700901
4.5	1.5	6.0	1.5	4.0	1.0	-003.7026683
4.5	1.5	6.0	1.5	4.0	3.0	003.7026679
4.5	1.5	6.0	1.5	6.0	1.0	019.0545457
4.5	1.5	6.0	1.5	6.0	3.0	-003.0545452

$$d) \quad B(\ell' \ell ; n) =$$

$$\sqrt{150} \quad (-1)^n \quad \frac{(1 \ell' / n) (1 \ell / n)}{(\ell' \ell / n)} \quad W(11\ell'\ell ; 2n)$$

l'	l	n	B
00	20	10	2.000000003
10	10	00	1.666666666
10	10	20	0.333333333
10	30	20	2.000000006
20	00	10	1.999999999
20	20	10	1.400000005
20	20	30	0.599999999
20	40	30	2.000000010
30	10	20	2.000000003
30	30	20	1.285714288
30	30	40	0.714285715
30	50	40	1.999999996
40	20	30	2.000000014
40	40	30	1.222222227
40	40	50	0.777777777
40	60	50	1.999999998
50	30	40	2.000000007
50	50	40	1.181818183
50	50	60	0.818181819
60	40	50	2.000000002
60	60	50	1.153846149
60	60	70	0.846153840

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