TABLES OF THE CLASSICAL ORBITAL INTEGRALS IN COULOMB EXCITATION

BY

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CONTENTS

Synopsis.

In the classical description of the Coulomb excitation process one is led to some non-elementary definite integrals. These integrals can also be used in a more refined treatment, which is related to the WBK method, for the calculation of the quantum mechanical corrections. This paper contains a collection of formulae, mathematical properties, and asymptotic expansions of these integrals. An explicit tabulation of the integrals for a large range of the interesting parameters is given.

I. Introduction.

In a Coulomb excitation process, the amplitude for excitation of the nucleus depends on the nuclear properties only through matrix elements identical to those which determine the corresponding radiative transitions. The dependence of the cross section on the various parameters of the process, such as velocity and charge of the projectile, is given through numerical functions (e. g., f and a) of dimensionless combinations of these quantities (e. g., η, ξ, and ϑ).[1]

In the classical description of the excitation process, these functions (cf. eqs. (24—26)) are simply related to the orbital integrals $I_{\lambda\mu}(\vartheta, \xi)$ defined by

$$I_{\lambda\mu}(\vartheta, \xi) = \int_{-\infty}^{+\infty} e^{i\xi[\varepsilon \sinh w + w]} \frac{[\cosh w + \varepsilon + i\sqrt{\varepsilon^2 - 1}\, \sinh w]^\mu\, dw}{[\varepsilon \cosh w + 1]^{\lambda + \mu}}, \qquad (1)$$

where ϑ is the deflection angle of the projectile and is connected with the eccentricity ε of the hyperbolic orbit through

$$\varepsilon = (\sin \vartheta/2)^{-1}. \qquad (2)$$

The classical approximation is valid only when the parameter η, defined by

$$\eta = \frac{Z_1 Z_2 e^2}{\hbar v}, \qquad (3)$$

is much larger than unity. By a proper symmetrization of the classical expressions for the cross sections, introducing a symmetrized adiabaticity parameter ξ through

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[1] For a discussion of the theory and experimental data concerning Coulomb excitation, the reader is referred to a review article by K. ALDER, A. BOHR, T. HUUS, B. MOTTELSON, and A. WINTHER (Rev. Mod. Phys., in press). This article contains references to the original papers in which the theoretical relations employed here are derived.

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$$\xi = \eta_f - \eta_i = \frac{Z_1 Z_2 e^2}{\hbar}\left(\frac{1}{v_f} - \frac{1}{v_i}\right),\tag{4}$$

one obtains, however, results for the total cross sections which differ only slightly from the quantum mechanical expressions, even for η of the order of unity. The angular distributions of the γ-rays following a Coulomb excitation have proved to be more sensitive to quantal corrections. Also the differential cross sections which have so far been evaluated only in the classical approximation are expected to be more sensitive to quantum effects.

In the quantum mechanical treatment of Coulomb excitation, the f- and a-functions are expressed as sums of radial matrix elements between Coulomb wave functions of different angular momenta. As is seen, for instance, from a *WKB* approximation, these radial matrix elements can for large values of η or l be expressed in terms of the classical orbital integrals by the relation

$$M_{l,\,l+\mu}^{-\lambda-1} \approx \frac{k^{\lambda-2}}{4\,\eta^\lambda}\, I_{\lambda\mu}(\vartheta,\ \xi),\tag{5}$$

where

$$\varepsilon = \frac{1}{\sin\vartheta/2} = \eta^{-1}\left[\eta^2 + \left(l + \frac{\mu}{2}\right)\left(l + \frac{\mu}{2} + 1\right)\right]^{1/2}\tag{6}$$

and where η and k are the geometric mean values of the classical parameter and wave numbers, respectively, in the initial and final state. Employing the relation (6) between the angular momenta involved in the radial matrix elements, and the deflection angle entering in the $I_{\lambda\mu}$, one may in this way obtain a very good approximation of the radial matrix elements, even for η and l of the order of unity. In turn, the study of the radial matrix elements has proved fruitful in the development of the theory of the classical integrals. The exact expressions which one has obtained for the matrix elements reduce, in the limit of $|l + i\eta| \gg 1$, to functions which provide series forms of the $I_{\lambda\mu}$. Also recursion relations for the $I_{\lambda\mu}$ can easily be obtained from recursion formulae for the radial matrix elements.

In the theory of Coulomb excitation enter only the orbital integrals with $\mu = -\lambda, -\lambda + 2, -\lambda + 4, \ldots \lambda$. With these integrals one may easily evaluate the f-functions entering in the differential and total excitation cross sections. Tables of these functions are also included in this paper. Furthermore, one can calculate the a-coefficients for the angular distribution of the de-excitation γ-rays. The coefficients for the distribution, irrespective of the scattering angle of the projectile, are given in ref. 1. The γ-ray angular

distribution for a fixed scattering angle is expressed as a simple polynomial in the $I_{\lambda\mu}$ and is thus readily evaluated from the present tables (loc. cit., eq. (II A. 66)). Also the cross sections for higher order excitation processes may be evaluated from the $I_{\lambda\mu}$ (loc. cit., eqs. (II D 10 and 11)).

Besides these applications of the orbital integrals in the classical theory of Coulomb excitation, one obtains by means of the relation (5) an extension of the applicability of the $I_{\lambda\mu}$ in the domain where quantum mechanics must be used.

The present paper contains a tabulation of the $I_{\lambda\mu}(\vartheta, \xi)$ for $\lambda = 1, 2, 3$, and 4. Before we give the tables, we quote some mathematical properties of these functions.

II. Some Properties of the $I_{\lambda\mu}$.

For the numerical evaluation of the orbital integrals (1), it is convenient to translate the path of integration by an amount $i\pi/2$, whereby the integral takes the form

$$I_{\lambda\mu}(\vartheta, \xi) = e^{-\frac{\pi}{2}\xi} \int_{-\infty}^{+\infty} e^{-\xi\varepsilon\cosh w}\, e^{i\xi w} \frac{[i \sinh w + \varepsilon - \sqrt{\varepsilon^2 - 1}\cosh w]^{\mu}\, dw}{[i\varepsilon\sinh w + 1]^{\lambda+\mu}}. \quad (7)$$

While the integral forms (1) and (7) are convenient for a discussion of different limiting cases, it may especially for small values of ξ be convenient to use a series form. As mentioned before, this was obtained from the series expression for the radial matrix elements in the limit $|l + i\eta| \gg 1$. For $\mu = \pm\lambda$ the result may be written

$$I_{\lambda,-\lambda}(\vartheta, \xi) = 2^{\lambda} \sin^{\lambda}\vartheta/2\, e^{-\xi\,(\cot\vartheta/2 + \vartheta/2 - \pi/2)}$$

$$\times \left\{ \frac{|\Gamma(\lambda + i\xi)|^2}{(2\lambda - 1)!} \psi_2(-2\lambda + 1, -\lambda + 1 - i\xi, -\lambda + 1 + i\xi, z, z^*) \right.$$

$$+ 2\,Re\,[e^{-\pi\xi}\,\Gamma(-\lambda - i\xi)\, z^{\lambda + i\xi}$$

$$\left. \psi_2(-\lambda + 1 + i\xi, \lambda + 1 + i\xi, -\lambda + 1 + i\xi, z, z^*) \right\} \quad (8)$$

with

$$z = \xi/2\,(\cot\vartheta/2 - i) = e^{-i\vartheta/2} \frac{\xi}{2\sin\vartheta/2} \quad (9)$$

and

$$
\begin{aligned}
I_{\lambda,\lambda}(\vartheta,\xi) &= 2^\lambda \sin^\lambda \vartheta/2 \, (-1)^\lambda \, e^{\xi \, [\cot \vartheta/2 + \vartheta/2 - \pi/2]} \\
&\quad \left\{ \frac{|\Gamma(\lambda+i\xi)|^2}{(2\lambda-1)!} \, \psi_2(-2\lambda+1, -\lambda+1-i\xi, -\lambda+1+i\xi, -z^*, -z) \right. \\
&\quad\quad + 2\, Re\,[\Gamma(-\lambda-i\xi)(z^*)^{\lambda+i\xi}(-1)^\lambda \\
&\quad\quad \left. \psi_2(-\lambda+1+i\xi, \lambda+1+i\xi, -\lambda+1+i\xi, -z^*, -z) \right\} \\
&= e^{-\pi\xi}(-1)^\lambda I_{\lambda,-\lambda}(-\vartheta,\xi).
\end{aligned}
\tag{10}
$$

The function ψ_2 is a generalized confluent hypergeometric function of two variables, and is defined by the power series

$$
\psi_2(\alpha, \beta, \beta'; x, y) = \sum_{m,n} \frac{\alpha_{m+n}}{\beta_m \beta'_n} \frac{x^m \, y^n}{m! \, n!}
\tag{11}
$$

with

$$
a_m = \frac{\Gamma(a+m)}{\Gamma(a)}
\tag{12}
$$

which is convergent for all x and y.

The first ψ_2 function in (8) and (10) is, according to (11), a polynomial which for the lowest multipole orders is given by

$$
\begin{aligned}
&\psi_2(-2\lambda+1, -\lambda+1-i\xi, -\lambda+1+i\xi, z, z^*) \\
&= \begin{cases}
0 & \lambda = 1 \\[2mm]
\dfrac{1}{(1+\xi^2)} & \lambda = 2 \\[2mm]
\dfrac{2}{(1+\xi^2)(4+\xi^2)}(5\xi \cot \vartheta/2 + 4) & \lambda = 3.
\end{cases}
\end{aligned}
\tag{13}
$$

In the dipole ($\lambda = 1$) case, (8) and (10) may be expressed in terms of Hankel functions, as may be seen directly from (1) or (7). One finds

$$
I_{1,\pm 1}(\vartheta,\xi) = -2\,\xi e^{-\frac{\pi}{2}\xi}\left[K'_{i\xi}(\xi\varepsilon) \pm \frac{\sqrt{\varepsilon^2-1}}{\varepsilon} K_{i\xi}(\xi\varepsilon) \right],
\tag{14}
$$

where K is the Hankel function of imaginary argument, and where K' means the derivative with respect to the argument.

The integrals $I_{\lambda\mu}$ with $|\mu| \neq \lambda$ are most easily obtained from the recursion relations. There exist a large number of such relations which may

be derived from the recursion formulae for the radial matrix elements. We shall here give the following three examples of such relations:

$$(\lambda + 1) I_{\lambda+1, 1} = - \frac{\partial}{\partial \varepsilon} I_{\lambda, 0} - \xi \frac{\sqrt{\varepsilon^2 - 1}}{\varepsilon} I_{\lambda, 0} \tag{15}$$

$$2 (\lambda - 1) I_{\lambda+1, 0} = - \frac{\partial}{\partial \varepsilon} (I_{\lambda, 1} + I_{\lambda, -1}) + \frac{\sqrt{\varepsilon^2 - 1}}{\varepsilon} (I_{\lambda, 1} + I_{\lambda, -1})$$
$$+ \xi (I_{\lambda, 1} - I_{\lambda, -1}), \tag{16}$$

$$\frac{2 \xi}{3} I_{2, 0} = \frac{\varepsilon}{\sqrt{\varepsilon^2 - 1}} \frac{\partial}{\partial \varepsilon} (I_{2, -2} - I_{2, 2}) + \xi (I_{2, -2} + I_{2, 2})$$
$$+ [3 (\varepsilon^2 - 1)^{-1/2} - (\varepsilon^2 - 1)^{-3/2}] (I_{2, -2} - I_{2, 2}). \tag{17}$$

The series form of the $I_{\lambda\mu}$ is especially convenient for small values of ξ and not too small values of ϑ.

For small values of ϑ (and arbitrary ξ) it is convenient to use the asymptotic formula

$$I_{\lambda\mu} (\vartheta, \xi) \approx (-1)^{\frac{\lambda+\mu}{2}} \varepsilon^{-1} \left(\frac{\xi}{2 \varepsilon} \right)^{\frac{\lambda-1}{2}} \Gamma \left(\frac{-\lambda + \mu + 1}{2} \right) e^{-\frac{\pi}{2} \xi} W_{-\frac{\mu}{2}, -\frac{\lambda}{2}} (2 \xi \varepsilon). \tag{18}$$

The function W is the Whittaker function, which in this case may be expressed in terms of Hankel functions of integer order.

For $\xi \cdot \varepsilon$ large, one may use the asymptotic expansion of W which leads to

$$I_{\lambda\mu} (\vartheta, \xi) \approx \frac{2 \pi}{\Gamma \left(\frac{\lambda - \mu + 1}{2} \right)} e^{-\xi \left(\varepsilon + \frac{\pi}{2} \right)} \xi^{\frac{\lambda - \mu - 1}{2}} (2 \varepsilon)^{-\frac{\lambda + \mu + 1}{2}}. \tag{19}$$

For large values of ξ and arbitrary values of ε, one may employ the method of steepest descent leading to

$$I_{\lambda, \mu} (\vartheta, \xi) = e^{-\xi (\pi + \zeta - \mathrm{arctg} \, \zeta)} \int_{-\infty - i\delta}^{+\infty - i\delta} \frac{dx}{x^{\lambda-\mu} (x - 2 i \zeta)^{\lambda+\mu}} \exp \left\{ -\frac{\zeta \xi}{2} x^2 - \frac{i \xi}{6} x^3 \right\} \tag{20}$$

with $\zeta = \sqrt{\varepsilon^2 - 1} = \cot \vartheta/2$. For the evaluation of the integral, a series development in ζ may be employed.

For $\xi = 0$, the orbital integrals may be reduced to elementary functions. Thus, one obtains

$$I_{\lambda,\mu}(\vartheta, 0) = \sqrt{2\pi}(\lambda-1)!\, \varepsilon^{-1/2}(\varepsilon^2-1)^{-\frac{\lambda}{2}+\frac{1}{4}}\, P_{\mu-1/2}^{-\lambda+1/2}(1/\varepsilon), \qquad (21)$$

where P is the Legendre function. For the lowest multipole orders, one finds the following explicit expressions in terms of elementary functions.

$$
\begin{aligned}
I_{1\pm1} &= 2\sin\vartheta/2 \\[2mm]
I_{2\pm2} &= \frac{2}{3}\sin^2\vartheta/2 \\[2mm]
I_{20} &= 2\,\mathrm{tg}^2\,\vartheta/2\left[1-\frac{\pi-\vartheta}{2}\,\mathrm{tg}\,\vartheta/2\right] \\[2mm]
I_{3\pm3} &= \frac{4}{15}\sin^3\vartheta/2 \\[2mm]
I_{3\pm1} &= \frac{2\sin^3\vartheta/2}{\cos^4\vartheta/2}\left[\frac{2+\sin^2\vartheta/2}{3}-\mathrm{tg}\,\vartheta/2\cdot\frac{\pi-\vartheta}{2}\right] \\[2mm]
I_{4\pm4} &= \frac{4}{35}\sin^4\vartheta/2 \\[2mm]
I_{4\pm2} &= \frac{2\sin^4\vartheta/2}{\cos^6\vartheta/2}\left[\frac{8+9\sin^2\vartheta/2-2\sin^4\vartheta/2}{20}-\frac{\pi-\vartheta}{2}\cdot\frac{3}{4}\,\mathrm{tg}\,\vartheta/2\right] \\[2mm]
I_{40} &= 2\,\mathrm{tg}^6\,\vartheta/2\left[\frac{2}{3\sin^2\vartheta/2}+\frac{11}{6}-\frac{5\,\mathrm{tg}^2\,\vartheta/2+3}{2\,\mathrm{tg}\,\vartheta/2}\cdot\frac{\pi-\vartheta}{2}\right].
\end{aligned}
\qquad (22)
$$

The orbital integrals for negative values of ξ can be found from the following symmetry relation:

$$I_{\lambda,\mu}(\vartheta, -\xi) = I_{\lambda,-\mu}(\vartheta, \xi). \qquad (23)$$

III. Tables of $I_{\lambda\mu}(\vartheta, \xi)$.

The following tables of the orbital integrals were obtained from the integral form (7) by numerical integration. This calculation was performed on the high speed electronic computor BESK in Stockholm and the tables are directly reproduced from the output of the machine.

Besides the $I_{\lambda\mu}$, the tables contain the differential and total cross section functions $df_\lambda(\vartheta, \xi)/d\Omega$ and $f_\lambda(\xi)$, entering in the classical theory of Coulomb excitation. These functions are defined in terms of the orbital integrals by

$$df_{E\lambda}(\vartheta, \xi)/d\Omega = \frac{4\pi^2}{(2\lambda+1)^3} \sideset{}{'}\sum_\mu \left| Y_{\lambda\mu}\left(\frac{\pi}{2}, 0\right)\right|^2 |I_{\lambda\mu}(\vartheta, \xi)|^2 \sin^{-4}\vartheta/2, \quad (24)$$

$$\left.\begin{aligned}df_{M\lambda}(\vartheta, \xi)/d\Omega &= \frac{4\pi^2}{(2\lambda+1)^2} \sideset{}{'}\sum_\mu \frac{(\lambda+1)^2-\mu^2}{\lambda^2(2\lambda+3)}\left| Y_{\lambda+1,\mu}\left(\frac{\pi}{2}, 0\right)\right|^2 \\ &\quad |I_{\lambda+1,\mu}(\vartheta, \xi)|^2 \cdot \cot^2\vartheta/2 \cdot \sin^{-4}\vartheta/2,\end{aligned}\right\} \quad (25)$$

$$f_\lambda(\xi) = 2\pi \int_0^\pi \frac{df_\lambda(\vartheta, \xi)}{d\Omega} \sin\vartheta\, d\vartheta. \quad (26)$$

The table contains the f-functions

$$df_{E\lambda}(\vartheta, \xi)/d\Omega \text{ and } f_{E\lambda}(\xi) \text{ for } \lambda = 1, 2, 3, \text{ and } 4$$

$$df_{M\lambda}(\vartheta, \xi)/d\Omega \text{ and } f_{M\lambda}(\xi) \text{ for } \lambda = 1 \text{ and } 2$$

and the following orbital integrals necessary for the evaluation of these functions

$$I_{\lambda\mu}(\vartheta, \xi) \text{ for } \lambda = 1, 2, 3, \text{ and } 4$$

$$\text{and } \mu = -\lambda, -\lambda+2, \ldots, \lambda.$$

All integrals were calculated for the following values of the parameters

$$\vartheta = 10° (10°)\ 180°$$

and

$$\xi = 0.0\ (0.1)\ 1.0\ (0.2)\ 2.0,\ 4.0 \quad \text{for}\ \lambda = 1 \text{ and } 2$$

$$\xi = 0.2\ (0.2)\ 1.0\ (0.5)\ 2.0,\ 4.0 \quad \text{for}\ \lambda = 3 \text{ and } 4.$$

The table is expected to be accurate with the number of decimals given, except for small angles ($10°$), where a strong cancellation in the integral (7) diminishes the accuracy especially for the higher multipoles. More accurate values may here be obtained by means of (18).

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Explanation of the Tables.

Column 1 10ξ.

Column 2   angle ϑ in degrees.

Column 3 λ, μ.

Columns 4-5 $I_{\lambda\mu} (\vartheta, \xi)$ as a decimal fraction (decimal point in front of the number) and the power of ten by which it should be multiplied, e. g.,

$$298559 \; - 02 \; = 0.00298559.$$

The last line for each value of ϑ and ξ (indicated by DF in the third column) gives the $df_{E\lambda} (\vartheta, \xi)/d\Omega$ for the λ, ϑ, ξ in question. For each value of ξ, the table concludes with the value of $f_{E\lambda}(\xi)$, indicated by F. In this line, the first and second columns give λ and $10\,\xi$, respectively.

The tables 5 and 6 contain only the $df_{M\lambda}(\vartheta, \xi)/d\Omega$ and $f_{M\lambda}(\xi)$, since the $I_{\lambda\mu}$ necessary are the same as those for the electric excitations.

Table 1. $I_{1\mu}(\vartheta, \xi)$, $df_{E1}(\vartheta, \xi)/d\Omega$ and $f_{E1}(\xi)$.

00	180	1.+1	200000	01		00	060	1.+1	100000	01
		1.−1	200000	01				1.−1	100000	01
		1 DF	139626	01				1 DF	055850	02
00	170	1.+1	199238	01		00	050	1.+1	084523	01
		1.−1	199238	01				1.−1	084523	01
		1 DF	140695	01				1 DF	078175	02
00	160	1.+1	196961	01		00	040	1.+1	068404	01
		1.−1	196961	01				1.−1	068404	01
		1 DF	143967	01				1 DF	119361	02
00	150	1.+1	193185	01		00	030	1.+1	051763	01
		1.−1	193185	01				1.−1	051763	01
		1 DF	149651	01				1 DF	208437	02
00	140	1.+1	187938	01		00	020	1.+1	347296	00
		1.−1	187938	01				1.−1	347296	00
		1 DF	158123	01				1 DF	463048	02
00	130	1.+1	181261	01		00	010	1.+1	174311	00
		1.−1	181261	01				1.−1	174311	00
		1 DF	169987	01				1 DF	183812	03
00	120	1.+1	173205	01		1	000	F	113945	03
		1.−1	173205	01						
		1 DF	186168	01						
00	110	1.+1	163830	01		01	180	1.+1	162146	01
		1.−1	163830	01				1.−1	162146	01
		1 DF	208083	01				1 DF	091774	01
00	100	1.+1	153208	01		01	170	1.+1	157978	01
		1.−1	153208	01				1.−1	165081	01
		1 DF	237935	01				1 DF	092522	01
00	090	1.+1	141421	01		01	160	1.+1	152638	01
		1.−1	141421	01				1.−1	166726	01
		1 DF	279252	01				1 DF	094811	01
00	080	1.+1	128557	01		01	150	1.+1	146200	01
		1.−1	128557	01				1.−1	167034	01
		1 DF	337934	01				1 DF	098793	01
00	070	1.+1	114715	01		01	140	1.+1	138739	01
		1.−1	114715	01				1.−1	165965	01
		1 DF	424409	01				1 DF	104741	01
						01	130	1.+1	130344	01
								1.−1	163490	01
								1 DF	113095	01

TABLE 1 (cont.).

01	120	1.+1	121106	01
		1.−1	159584	01
		1 DF	124528	01
01	110	1.+1	111125	01
		1.−1	154231	01
		1 DF	140075	01
01	100	1.+1	100507	01
		1.−1	147419	01
		1 DF	161345	01
01	090	1.+1	089366	01
		1.−1	139142	01
		1 DF	190917	01
01	080	1.+1	077824	01
		1.−1	129391	01
		1 DF	233037	01
01	070	1.+1	066015	01
		1.−1	118154	01
		1 DF	295395	01
01	060	1.+1	054088	01
		1.−1	105405	01
		1 DF	391957	01
01	050	1.+1	422186	00
		1.−1	091087	01
		1 DF	055146	02
01	040	1.+1	306259	00
		1.−1	075082	01
		1 DF	083865	02
01	030	1.+1	196251	00
		1.−1	057156	01
		1 DF	142045	02
01	020	1.+1	097539	00
		1.−1	368676	00
		1 DF	279170	02
01	010	1.+1	222266	−01
		1.−1	138437	00
		1 DF	059464	03
1	01	F	060419	03

02	180	1.+1	126875	01
		1.−1	126875	01
		1 DF	056190	01
02	170	1.+1	122133	01
		1.−1	130653	01
		1 DF	056685	01
02	160	1.+1	116509	01
		1.−1	133383	01
		1 DF	058200	01
02	150	1.+1	110093	01
		1.−1	134989	01
		1 DF	060835	01
02	140	1.+1	102977	01
		1.−1	135398	01
		1 DF	064772	01
02	130	1.+1	095257	01
		1.−1	134542	01
		1 DF	070300	01
02	120	1.+1	087030	01
		1.−1	132357	01
		1 DF	077858	01
02	110	1.+1	078399	01
		1.−1	128780	01
		1 DF	088112	01
02	100	1.+1	069469	01
		1.−1	123752	01
		1 DF	102079	01
02	090	1.+1	060350	01
		1.−1	117215	01
		1 DF	121346	01
02	080	1.+1	051158	01
		1.−1	109106	01
		1 DF	148462	01
02	070	1.+1	420200	00
		1.−1	099357	01
		1 DF	187661	01

TABLE 1 (cont.).

02	060	1.+1	330777	00		03	120	1.+1	062757	01
		1.-1	087886	01				1.-1	106078	01
		1 DF	246251	01				1 DF	471351	00
02	050	1.+1	245018	00		03	110	1.+1	055694	01
		1.-1	074594	01				1.-1	103526	01
		1 DF	337287	01				1 DF	053569	01
02	040	1.+1	165127	00		03	100	1.+1	485281	00
		1.-1	059364	01				1.-1	099625	01
		1 DF	484278	01				1 DF	062239	01
02	030	1.+1	094291	00		03	090	1.+1	413534	00
		1.-1	421108	00				1.-1	094291	01
		1 DF	072431	02				1 DF	074009	01
02	020	1.+1	037718	00		03	080	1.+1	342707	00
		1.-1	230991	00				1.-1	087443	01
		1 DF	105152	02				1 DF	090180	01
02	010	1.+1	046571	-01		03	070	1.+1	273880	00
		1.-1	050675	00				1.-1	078997	01
		1 DF	078333	02				1 DF	112727	01
						03	060	1.+1	208271	00
1	02	F	272124	02				1.-1	068877	01
								1 DF	144594	01
03	180	1.+1	097783	01		03	050	1.+1	147338	00
		1.-1	097783	01				1.-1	057027	01
		1 DF	333762	00				1 DF	189811	01
03	170	1.+1	093277	01		03	040	1.+1	092965	00
		1.-1	101544	01				1.-1	434640	00
		1 DF	336921	00				1 DF	251975	01
03	160	1.+1	088117	01		03	030	1.+1	047772	00
		1.-1	104471	01				1.-1	284464	00
		1 DF	346596	00				1 DF	323614	01
03	150	1.+1	082394	01		03	020	1.+1	155923	-01
		1.-1	106474	01				1.-1	131024	00
		1 DF	363412	00				1 DF	334203	01
03	140	1.+1	076199	01		03	010	1.+1	106667	-02
		1.-1	107468	01				1.-1	165056	-01
		1 DF	388487	00				1 DF	082750	01
03	130	1.+1	069622	01						
		1.-1	107364	01		1	03	F	134950	02
		1 DF	423585	00						

TABLE 1 (cont.).

04	180	1.+1	074673	01		04	060	1.+1	133164	00
		1.−1	074673	01				1.−1	052291	01
		1 DF	194642	00				1 DF	081309	01
04	170	1.+1	070704	01		04	050	1.+1	090266	00
		1.−1	078072	01				1.−1	421157	00
		1 DF	196611	00				1 DF	101502	01
04	160	1.+1	066254	01		04	040	1.+1	053527	00
		1.−1	080815	01				1.−1	306430	00
		1 DF	202639	00				1 DF	123420	01
04	150	1.+1	061406	01		04	030	1.+1	248684	−01
		1.−1	082811	01				1.−1	184358	00
		1 DF	213095	00				1 DF	134601	01
04	140	1.+1	056246	01		04	020	1.+1	066629	−01
		1.−1	083968	01				1.−1	070989	00
		1 DF	228636	00				1 DF	097587	01
04	130	1.+1	050853	01		04	010	1.+1	254773	−03
		1.−1	084197	01				1.−1	051067	−01
		1 DF	250286	00				1 DF	079080	00
04	120	1.+1	453087	00						
		1.−1	083404	01						
		1 DF	279538	00		1	04	F	069261	02
04	110	1.+1	396907	00		05	180	1.+1	056667	01
		1.−1	081499	01				1.−1	056667	01
		1 DF	318534	00				1 DF	112091	00
04	100	1.+1	340776	00		05	170	1.+1	053314	01
		1.−1	078390	01				1.−1	059588	01
		1 DF	370305	00				1 DF	113296	00
04	090	1.+1	285484	00		05	160	1.+1	496091	00
		1.−1	073990	01				1.−1	061995	01
		1 DF	439094	00				1 DF	116982	00
04	080	1.+1	231849	00		05	150	1.+1	456266	00
		1.−1	068216	01				1.−1	063803	01
		1 DF	053070	01				1 DF	123358	00
04	070	1.+1	180748	00		05	140	1.+1	414398	00
		1.−1	060997	01				1.−1	064927	01
		1 DF	065266	01				1 DF	132799	00
						05	130	1.+1	371185	00
								1.−1	065276	01
								1 DF	145868	00

TABLE 1 (cont.).

05	120	1.+1	327297	00	06	180	1.+1	428044	00
		1.-1	064761	01			1.-1	428044	00
		1 DF	163371	00			1 DF	063956	00
05	110	1.+1	283384	00	06	170	1.+1	400462	00
		1.-1	063292	01			1.-1	452363	00
		1 DF	186412	00			1 DF	064684	00
05	100	1.+1	240079	00	06	160	1.+1	370309	00
		1.-1	060782	01			1.-1	472691	00
		1 DF	216458	00			1 DF	066904	00
05	090	1.+1	198014	00	06	150	1.+1	338238	00
		1.-1	057147	01			1.-1	488262	00
		1 DF	255372	00			1 DF	070735	00
05	080	1.+1	157838	00	06	140	1.+1	304865	00
		1.-1	052318	01			1.-1	498285	00
		1 DF	305311	00			1 DF	076380	00
05	070	1.+1	120238	00	06	130	1.+1	270770	00
		1.-1	462451	00			1.-1	050193	01
		1 DF	368175	00			1 DF	084140	00
05	060	1.+1	085981	00	06	120	1.+1	236503	00
		1.-1	389263	00			1.-1	498396	00
		1 DF	443784	00			1 DF	094428	00
05	050	1.+1	055960	00	06	110	1.+1	202584	00
		1.-1	304530	00			1.-1	486828	00
		1 DF	052452	01			1 DF	107778	00
05	040	1.+1	031258	00	06	100	1.+1	169518	00
		1.-1	211184	00			1.-1	466444	00
		1 DF	058130	01			1 DF	124835	00
05	030	1.+1	131657	-01	06	090	1.+1	137799	00
		1.-1	116583	00			1.-1	436530	00
		1 DF	053539	01			1 DF	146292	00
05	020	1.+1	290526	-02	06	080	1.+1	107929	00
		1.-1	037451	00			1.-1	396535	00
		1 DF	270857	00			1 DF	172667	00
05	010	1.+1	062375	-03	06	070	1.+1	080437	00
		1.-1	153467	-02			1.-1	346214	00
		1 DF	071358	-01			1 DF	203720	00
1	05	F	359110	01					

TABLE 1 (cont.).

06	060	1.+1	055901	00		07	120	1.+1	170927	00
		1.-1	285907	00				1.-1	380996	00
		1 DF	236995	00				1 DF	054105	00
06	050	1.+1	034982	00		07	110	1.+1	144956	00
		1.-1	217071	00				1.-1	371767	00
		1 DF	264498	00				1 DF	061720	00
06	040	1.+1	184358	−01		07	100	1.+1	119897	00
		1.-1	143339	00				1.-1	355205	00
		1 DF	266395	00				1 DF	071232	00
06	030	1.+1	070516	−01		07	090	1.+1	096134	00
		1.-1	072533	00				1.-1	330724	00
		1 DF	206563	00				1 DF	082812	00
06	020	1.+1	128428	−02		07	080	1.+1	074049	00
		1.-1	194162	−01				1.-1	297936	00
		1 DF	072681	00				1 DF	096357	00
06	010	1.+1	155231	−04		07	070	1.+1	054039	00
		1.-1	045261	−02				1.-1	256806	00
		1 DF	062037	−02				1 DF	111055	00
1	06	F	187172	01		07	060	1.+1	036534	00
								1.-1	207946	00
								1 DF	124481	00
07	180	1.+1	322178	00						
		1.-1	322178	00		07	050	1.+1	220049	−01
		1 DF	036232	00				1.-1	153133	00
								1 DF	130949	00
07	170	1.+1	299898	00						
		1.-1	342000	00		07	040	1.+1	109530	−01
		1 DF	036666	00				1.-1	096228	00
								1 DF	119638	00
07	160	1.+1	275753	00						
		1.-1	358735	00		07	030	1.+1	038093	−01
		1 DF	037988	00				1.-1	044605	00
								1 DF	077952	00
07	150	1.+1	250290	00						
		1.-1	371714	00		07	020	1.+1	057340	−02
		1 DF	040262	00				1.-1	099426	−01
								1 DF	190390	−01
07	140	1.+1	224022	00						
		1.-1	380237	00		07	010	1.+1	039085	−04
		1 DF	043596	00				1.-1	131741	−03
								1 DF	052544	−03
07	130	1.+1	197421	00						
		1.-1	383577	00		1	07	F	097952	01
		1 DF	048143	00						

TABLE 1 (cont.).

08	180	1.+1	241805	00		08	060	1.+1	239742	-01
		1.-1	241805	00				1.-1	150118	00
		1 DF	204098	-01				1 DF	064535	00
08	170	1.+1	224049	00		08	050	1.+1	139090	-01
		1.-1	257716	00				1.-1	107182	00
		1 DF	206661	-01				1 DF	063912	00
08	160	1.+1	204943	00		08	040	1.+1	065444	-01
		1.-1	271248	00				1.-1	064068	00
		1 DF	214459	-01				1 DF	052902	00
08	150	1.+1	184941	00		08	030	1.+1	207144	-02
		1.-1	281830	00				1.-1	271929	-01
		1 DF	227825	-01				1 DF	289279	-01
08	140	1.+1	164460	00		08	020	1.+1	257957	-03
		1.-1	288858	00				1.-1	050448	-01
		1 DF	247310	-01				1 DF	048981	-01
08	130	1.+1	143880	00		08	010	1.+1	099274	-05
		1.-1	291702	00				1.-1	037975	-03
		1 DF	273670	-01				1 DF	043651	-04
08	120	1.+1	123551	00						
		1.-1	289728	00		1	08	F	051430	01
		1 DF	307821	-01						
08	110	1.+1	103794	00		09	180	1.+1	181061	00
		1.-1	282311	00				1.-1	181061	00
		1 DF	035070	00				1 DF	114434	-01
08	100	1.+1	084913	00		09	170	1.+1	167054	00
		1.-1	268881	00				1.-1	193685	00
		1 DF	040296	00				1 DF	115936	-01
08	090	1.+1	067198	00		09	160	1.+1	152074	00
		1.-1	248977	00				1.-1	204482	00
		1 DF	046429	00				1 DF	120498	-01
08	080	1.+1	050937	00		09	150	1.+1	136491	00
		1.-1	222354	00				1.-1	212971	00
		1 DF	053200	00				1 DF	128290	-01
08	070	1.+1	036426	00		09	140	1.+1	120640	00
		1.-1	189141	00				1.-1	218642	00
		1 DF	059827	00				1 DF	139582	-01
						09	130	1.+1	104823	00
								1.-1	220963	00
								1 DF	154728	-01

TABLE 1 (cont.).

09	120	1.+1	089315	00		10	180	1.+1	135312	00
		1.−1	219394	00				1.−1	135312	00
		1 DF	174102	−01				1 DF	063912	−01
09	110	1.+1	074364	00		10	170	1.+1	124353	00
		1.−1	213416	00				1.−1	145238	00
		1 DF	197989	−01				1 DF	064786	−01
09	100	1.+1	060202	00		10	160	1.+1	112693	00
		1.−1	202563	00				1.−1	153765	00
		1 DF	226331	−01				1 DF	067437	−01
09	090	1.+1	047047	00		10	150	1.+1	100632	00
		1.−1	186490	00				1.−1	160493	00
		1 DF	258252	−01				1 DF	071947	−01
09	080	1.+1	035114	00		10	140	1.+1	088437	00
		1.−1	165063	00				1.−1	164998	00
		1 DF	291161	−01				1 DF	078445	−01
09	070	1.+1	246200	−01		10	130	1.+1	076345	00
		1.−1	138524	00				1.−1	166835	00
		1 DF	031920	00				1 DF	087081	−01
09	060	1.+1	157841	−01		10	120	1.+1	064571	00
		1.−1	107734	00				1.−1	165557	00
		1 DF	033107	00				1 DF	097982	−01
09	050	1.+1	088262	−01		10	110	1.+1	053304	00
		1.−1	074557	00				1.−1	160736	00
		1 DF	308396	−01				1 DF	111163	−01
09	040	1.+1	039281	−01		10	100	1.+1	042720	00
		1.−1	042381	00				1.−1	152004	00
		1 DF	231069	−01				1 DF	126354	−01
09	030	1.+1	113230	−02		10	090	1.+1	032982	00
		1.−1	164655	−01				1.−1	139107	00
		1.DF	105948	−01				1 DF	142689	−01
09	020	1.+1	116741	−03		10	080	1.+1	242500	−01
		1.−1	254160	−02				1.−1	122001	00
		1 DF	124259	−02				1 DF	158184	−01
09	010	1.+1	253874	−06		10	070	1.+1	166779	−01
		1.−1	108653	−04				1.−1	100991	00
		1 DF	035728	−05				1 DF	168954	−01
1	09	F	270749	00						

TABLE 1 (cont.).

10	060	1.+1	104203	−01
		1.−1	076948	00
		1 DF	168379	−01
10	050	1.+1	056188	−01
		1.−1	051604	00
		1 DF	147429	−01
10	040	1.+1	236663	−02
		1.−1	278898	−01
		1 DF	099926	−01
10	030	1.+1	062159	−02
		1.−1	099159	−01
		1 DF	038394	−01
10	020	1.+1	053088	−03
		1.−1	127321	−02
		1 DF	311714	−03
10	010	1.+1	065277	−06
		1.−1	309033	−05
		1 DF	289000	−07
1	10	F	142827	00
12	180	1.+1	075217	00
		1.−1	075217	00
		1 DF	197488	−02
12	170	1.+1	068630	00
		1.−1	081228	00
		1 DF	200399	−02
12	160	1.+1	061684	00
		1.−1	086424	00
		1 DF	209196	−02
12	150	1.+1	054568	00
		1.−1	090538	00
		1 DF	224052	−02
12	140	1.+1	047448	00
		1.−1	093286	00
		1 DF	245187	−02
12	130	1.+1	040469	00
		1.−1	094370	00
		1 DF	272747	−02

12	120	1.+1	033756	00
		1.−1	093491	00
		1 DF	306564	−02
12	110	1.+1	274202	−01
		1.−1	090375	00
		1 DF	034575	−01
12	100	1.+1	215592	−01
		1.−1	084798	00
		1 DF	038801	−01
12	090	1.+1	162631	−01
		1.−1	076643	00
		1 DF	042856	−01
12	080	1.+1	116155	−01
		1.−1	065965	00
		1 DF	045867	−01
12	070	1.+1	076950	−01
		1.−1	053104	00
		1 DF	046430	−01
12	060	1.+1	045715	−01
		1.−1	038816	00
		1 DF	042660	−01
12	050	1.+1	229489	−02
		1.−1	244355	−01
		1 DF	032956	−01
12	040	1.+1	086671	−02
		1.−1	119320	−01
		1 DF	182551	−02
12	030	1.+1	189223	−03
		1.−1	035512	−01
		1 DF	049190	−02
12	020	1.+1	111033	−04
		1.−1	031535	−02
		1 DF	191134	−04
12	010	1.+1	043705	−07
		1.−1	246611	−06
		1 DF	184016	−09
1	12	F	039924	00

TABLE 1 (cont.).

14	180	1.+1	041603	00		14	060	1.+1	201951	-02
		1.-1	041603	00				1.-1	193589	-01
		1 DF	060419	-02				1 DF	105794	-02
14	170	1.+1	037717	00		14	050	1.+1	094488	-02
		1.-1	045171	00				1.-1	114343	-01
		1 DF	061371	-02				1 DF	072021	-02
14	160	1.+1	033648	00		14	040	1.+1	032035	-02
		1.-1	048267	00				1.-1	050426	-01
		1 DF	064238	-02				1 DF	032563	-02
14	150	1.+1	295137	-01		14	030	1.+1	058202	-03
		1.-1	050720	00				1.-1	125577	-02
		1 DF	069042	-02				1 DF	061467	-03
14	140	1.+1	254143	-01		14	020	1.+1	234915	-05
		1.-1	052344	00				1.-1	077090	-03
		1 DF	075788	-02				1 DF	114181	-05
14	130	1.+1	214359	-01		14	010	1.+1	296367	-09
		1.-1	052948	00				1.-1	194141	-07
		1 DF	084409	-02				1 DF	114033	-11
14	120	1.+1	176514	-01						
		1.-1	052340	00		1	14	F	112058	-01
		1 DF	094668	-02						
14	110	1.+1	141232	-01		16	180	1.+1	229229	-01
		1.-1	050350	00				1.-1	229229	-01
		1 DF	106002	-02				1 DF	183420	-03
14	100	1.+1	109056	-01		16	170	1.+1	206605	-01
		1.-1	046852	00				1.-1	250097	-01
		1 DF	117284	-02				1 DF	186491	-03
14	090	1.+1	080467	-01		16	160	1.+1	183061	-01
		1.-1	041802	00				1.-1	268249	-01
		1 DF	126516	-02				1 DF	195702	-03
14	080	1.+1	055893	-01		16	150	1.+1	159308	-01
		1.-1	035292	00				1.-1	282607	-01
		1 DF	130539	-02				1 DF	211012	-03
14	070	1.+1	035708	-01		16	140	1.+1	135947	-01
		1.-1	276185	-01				1.-1	292004	-01
		1 DF	125058	-02				1 DF	232227	-03
						16	130	1.+1	113479	-01
								1.-1	295222	-01
								1 DF	258774	-03

TABLE 1 (cont.).

16	120	1.+1	092320	−01		18	180	1.+1	125911	−01
		1.−1	291080	−01				1.−1	125911	−01
		1 DF	289339	−03				1 DF	055339	−03
16	110	1.+1	072819	−01		18	170	1.+1	112875	−01
		1.−1	278554	−01				1.−1	137980	−01
		1 DF	032132	−02				1 DF	056317	−03
16	100	1.+1	055269	−01		18	160	1.+1	099380	−01
		1.−1	256967	−0.1				1.−1	148495	−01
		1 DF	035015	−02				1 DF	059242	−03
16	090	1.+1	039922	−01		18	150	1.+1	085853	−01
		1.−1	226255	−01				1.−1	156790	−01
		1 DF	036851	−02				1 DF	064066	−03
16	080	1.+1	269929	−02		18	140	1.+1	072646	−01
		1.−1	187319	−01				1.−1	162138	−01
		1 DF	036618	−02				1 DF	070658	−03
16	070	1.+1	166451	−02		18	130	1.+1	060049	−01
		1.−1	142452	−01				1.−1	163791	−01
		1 DF	033169	−02				1 DF	078727	−03
16	060	1.+1	089691	−02		18	120	1.+1	048295	−01
		1.−1	095722	−01				1.−1	161029	−01
		1 DF	258122	−03				1 DF	087694	−03
16	050	1.+1	039146	−02		18	110	1.+1	037577	−01
		1.−1	053033	−01				1.−1	153254	−01
		1 DF	154717	−03				1 DF	096516	−03
16	040	1.+1	119245	−03		18	100	1.+1	280533	−02
		1.−1	211166	−02				1.−1	140123	−01
		1 DF	057056	−03				1 DF	103501	−03
16	030	1.+1	180436	−04		18	090	1.+1	198515	−02
		1.−1	043989	−02				1.−1	121723	−01
		1 DF	075392	−04				1 DF	106189	−03
16	020	1.+1	050132	−05		18	080	1.+1	130739	−02
		1.−1	186629	−04				1.−1	098800	−01
		1· DF	066906	−06				1 DF	101547	−03
16	010	1.+1	202870	−10		18	070	1.+1	077870	−02
		1.−1	151315	−08				1.−1	072999	−01
		1 DF	069268	−13				1 DF	086910	−03
1	16	F	031536	−01						

TABLE 1 (cont.).

18	060	1.+1	040006	−02	20	120	1.+1	252696	−02
		1.−1	047016	−01			1.−1	088703	−01
		1 DF	062175	−03			1 DF	263949	−04
18	050	1.+1	162991	−03	20	110	1.+1	194061	−02
		1.−1	244284	−02			1.−1	083939	−01
		1 DF	032794	−03			1 DF	287716	−04
18	040	1.+1	044634	−03	20	100	1.+1	142577	−02
		1.−1	087805	−02			1.−1	076050	−01
		1 DF	098589	−04			1 DF	303439	−04
18	030	1.+1	056283	−04	20	090	1.+1	098895	−02
		1.−1	152979	−03			1.−1	065167	−01
		1 DF	091148	−05			1 DF	303309	−04
18	020	1.+1	107708	−06	20	080	1.+1	063477	−02
		1.−1	044845	−04			1.−1	051849	−01
		1 DF	038626	−07			1 DF	278972	−04
18	010	1.+1	139885	−11	20	070	1.+1	036538	−02
		1.−1	117035	−09			1.−1	037214	−01
		1 DF	041436	−15			1 DF	225481	−04
					20	060	1.+1	179074	−03
1	18	F	088918	−02			1.−1	229693	−02
							1 DF	148227	−04
20	180	1.+1	068984	−01	20	050	1.+1	068137	−03
		1.−1	068984	−01			1.−1	111905	−02
		1 DF	166116	−04			1 DF	068769	−04
20	170	1.+1	061534	−01	20	040	1.+1	167831	−04
		1.−1	075905	−01			1.−1	036304	−02
		1 DF	169206	−04			1 DF	168470	−05
20	160	1.+1	053858	−01	20	030	1.+1	176442	−05
		1.−1	081939	−01			1.−1	052893	−03
		1 DF	178406	−04			1 DF	108938	−06
20	150	1.+1	046207	−01	20	020	1.+1	232662	−07
		1.−1	086681	−01			1.−1	107123	−05
		1 DF	193451	−04			1 DF	220381	−09
20	140	1.+1	038788	−01	20	010	1.+1	097015	−12
		1.−1	089688	−01			1.−1	089973	−10
		1 DF	213734	−04			1 DF	244893	−18
20	130	1.+1	031765	−01					
		1.−1	090506	−01	1	20	F	251066	−03
		1 DF	238003	−04					

TABLE 1 (cont.).

40	180	1.+1	155192	−04		40	090	1.+1	099105	−05
		1.−1	155192	−04				1.−1	108687	−04
		1 DF	084071	−09				1 DF	083155	−09
40	170	1.+1	133306	−04		40	080	1.+1	050052	−05
		1.−1	175867	−04				1.−1	070513	−04
		1 DF	086303	−09				1 DF	051089	−09
40	160	1.+1	111449	−04		40	070	1.+1	208191	−06
		1.−1	193770	−04				1.−1	037719	−04
		1 DF	092717	−09				1 DF	230123	−10
40	150	1.+1	090551	−04		40	060	1.+1	064681	−06
		1.−1	207052	−04				1.−1	151517	−05
		1 DF	102392	−09				1 DF	064226	−10
40	140	1.+1	071271	−04		40	050	1.+1	126043	−07
		1.−1	213700	−04				1.−1	038652	−05
		1 DF	113592	−09				1 DF	081827	−11
40	130	1.+1	054063	−04		40	040	1.+1	108996	−08
		1.−1	211796	−04				1.−1	044843	−06
		1 DF	123602	−09				1 DF	256636	−13
40	120	1.+1	039215	−04		40	030	1.+1	188087	−10
		1.−1	199903	−04				1.−1	108891	−08
		1 DF	128764	−09				1 DF	046132	−15
40	110	1.+1	268908	−05		40	020	1.+1	060463	−13
		1.−1	177612	−04				1.−1	054459	−11
		1 DF	125085	−09				1 DF	056937	−21
40	100	1.+1	171420	−05		40	010	1.+1	296282	−24
		1.−1	146123	−04				1.−1	054357	−21
		1 DF	109707	−09				1 DF	089377	−40
						1	40	F	083914	−08

Table 2. $I_{2\mu}(\vartheta, \xi)$, $df_{E2}(\vartheta, \xi)/d\Omega$ and $f_{E2}(\xi)$.

00	180	2.+2	066666	01		00	090	2.+2	333333	00
		2. 0	066666	01				2. 0	429203	00
		2.−2	066666	01				2.−2	333333	00
		2 DF	055850	00				2 DF	065037	00
00	170	2.+2	066160	01		00	080	2.+2	275450	00
		2. 0	066362	01				2. 0	377035	00
		2.−2	066160	01				2.−2	275450	00
		2 DF	055935	00				2 DF	068048	00
00	160	2.+2	064656	01		00	070	2.+2	219326	00
		2. 0	065449	01				2. 0	321482	00
		2.−2	064656	01				2.−2	219326	00
		2 DF	056195	00				2 DF	071886	00
00	150	2.+2	062200	01		00	060	2.+2	166666	00
		2. 0	063934	01				2. 0	263600	00
		2.−2	062200	01				2.−2	166666	00
		2 DF	056639	00				2 DF	076814	00
00	140	2.+2	058868	01		00	050	2.+2	119070	00
		2. 0	061822	01				2. 0	204827	00
		2.−2	058868	01				2.−2	119070	00
		2 DF	057287	00				2 DF	083205	00
00	130	2.+2	054759	01		00	040	2.+2	077985	00
		2. 0	059125	01				2. 0	147133	00
		2.−2	054759	01				2.−2	077985	00
		2 DF	058165	00				2 DF	091588	00
00	120	2.+2	050000	01		00	030	2.+2	044658	00
		2. 0	055860	01				2. 0	093228	00
		2.−2	050000	01				2.−2	044658	00
		2 DF	059315	00				2 DF	102738	00
00	110	2.+2	447340	00		00	020	2.+2	201024	−01
		2. 0	052048	01				2. 0	046873	00
		2.−2	447340	00				2.−2	201024	−01
		2 DF	060789	00				2 DF	117801	00
00	100	2.+2	391216	00		00	010	2.+2	050640	−01
		2. 0	477210	00				2. 0	133216	−01
		2.−2	391216	00				2.−2	050640	−01
		2 DF	062663	00				2 DF	138510	00
						2	00	F	089539	01

TABLE 2 (cont.).

01	180	2.+2	062881	01		01	090	2.+2	248499	00
		2. 0	062881	01				2. 0	397998	00
		2.−2	062881	01				2.−2	396812	00
		2 DF	049688	00				2 DF	061226	00
01	170	2.+2	061012	01		01	080	2.+2	197651	00
		2. 0	062584	01				2. 0	347469	00
		2.−2	063825	01				2.−2	340188	00
		2 DF	049797	00				2 DF	064947	00
01	160	2.+2	058284	01		01	070	2.+2	150493	00
		2. 0	061696	01				2. 0	293779	00
		2.−2	063808	01				2.−2	282588	00
		2 DF	050130	00				2 DF	069680	00
01	150	2.+2	054785	01		01	060	2.+2	108292	00
		2. 0	060220	01				2. 0	238017	00
		2.−2	062820	01				2.−2	225805	00
		2 DF	050698	00				2 DF	075763	00
01	140	2.+2	050627	01		01	050	2.+2	072137	00
		2. 0	058165	01				2. 0	181673	00
		2.−2	060883	01				2.−2	171619	00
		2 DF	051524	00				2 DF	083700	00
01	130	2.+2	459390	00		01	040	2.+2	042896	00
		2. 0	055541	01				2. 0	126804	00
		2.−2	058048	01				2.−2	121719	00
		2 DF	052639	00				2 DF	094274	00
01	120	2.+2	408633	00		01	030	2.+2	211746	−01
		2. 0	052364	01				2. 0	076278	00
		2.−2	054394	01				2.−2	077632	00
		2 DF	054090	00				2 DF	108734	00
01	110	2.+2	355524	00		01	020	2.+2	072506	−01
		2. 0	486597	00				2. 0	034174	00
		2.−2	050025	01				2.−2	040632	00
		2 DF	055941	00				2 DF	128642	00
01	100	2.+2	301626	00		01	010	2.+2	086749	−02
		2. 0	444570	00				2. 0	065051	−01
		2.−2	450715	00				2.−2	119526	−01
		2 DF	058279	00				2 DF	140331	00
						2	01	F	086382	01

TABLE 2 (cont.).

02	180	2.+2	055614	01		02	090	2.+2	182332	00
		2. 0	055614	01				2. 0	341975	00
		2.-2	055614	01				2.-2	410649	00
		2 DF	038868	00				2 DF	052749	00
02	170	2.+2	053028	01		02	080	2.+2	140649	00
		2. 0	055338	01				2. 0	295484	00
		2.-2	057430	01				2.-2	358637	00
		2 DF	039005	00				2 DF	057032	00
02	160	2.+2	497638	00		02	070	2.+2	103320	00
		2. 0	054510	01				2. 0	246349	00
		2.-2	058403	01				2.-2	303462	00
		2 DF	039420	00				2 DF	062357	00
02	150	2.+2	459291	00		02	060	2.+2	071169	00
		2. 0	053136	01				2. 0	195713	00
		2.-2	058488	01				2.-2	246788	00
		2 DF	040127	00				2 DF	068993	00
02	140	2.+2	416472	00		02	050	2.+2	044821	00
		2. 0	051222	01				2. 0	145146	00
		2.-2	057662	01				2.-2	190355	00
		2 DF	041148	00				2 DF	077243	00
02	130	2.+2	370502	00		02	040	2.+2	246615	-01
		2. 0	487808	00				2. 0	096829	00
		2.-2	055932	01				2.-2	135942	00
		2 DF	042518	00				2 DF	087262	00
02	120	2.+2	322749	00		02	030	2.+2	107972	-01
		2. 0	458291	00				2. 0	053815	00
		2.-2	053331	01				2.-2	085379	00
		2 DF	044285	00				2 DF	098053	00
02	110	2.+2	274589	00		02	020	2.+2	295693	-02
		2. 0	423908	00				2. 0	204034	-01
		2.-2	499236	00				2.-2	040918	00
		2 DF	046514	00				2 DF	101614	00
02	100	2.+2	227362	00		02	010	2.+2	189515	-03
		2. 0	384987	00				2. 0	228018	-02
		2.-2	457967	00				2.-2	077651	-01
		2 DF	049296	00				2 DF	052104	00
						2	02	F	072889	01

TABLE 2 (cont.).

03	180	2.+2	474507	00		03	090	2.+2	132700	00
		2. 0	474507	00				2. 0	282477	00
		2.-2	474507	00				2.-2	392199	00
		2 DF	282940	−01				2 DF	042341	00
03	170	2.+2	446003	00		03	080	2.+2	099656	00
		2. 0	472014	00				2. 0	241269	00
		2.-2	496880	00				2.-2	345624	00
		2 DF	284380	−01				2 DF	046428	00
03	160	2.+2	412401	00		03	070	2.+2	070929	00
		2. 0	464550	00				2. 0	198031	00
		2.-2	051223	01				2.-2	294411	00
		2 DF	288740	−01				2 DF	051311	00
03	150	2.+2	374832	00		03	060	2.+2	046998	00
		2. 0	452159	00				2. 0	153937	00
		2.-2	051985	01				2.-2	240063	00
		2 DF	296138	−01				2 DF	057029	00
03	140	2.+2	334493	00		03	050	2.+2	281455	−01
		2. 0	434920	00				2. 0	110595	00
		2.-2	051924	01				2.-2	184298	00
		2 DF	306777	−01				2 DF	063391	00
03	130	2.+2	292603	00		03	040	2.+2	144327	−01
		2. 0	412954	00				2. 0	070216	00
		2.-2	051011	01				2.-2	129098	00
		2 DF	032095	00				2 DF	069432	00
03	120	2.+2	250369	00		03	030	2.+2	056582	−01
		2. 0	386434	00				2. 0	035822	00
		2.-2	492468	00				2.-2	076985	00
		2 DF	033909	00				2 DF	071561	00
03	110	2.+2	208945	00		03	020	2.+2	125689	−02
		2. 0	355604	00				2. 0	113714	−01
		2.-2	466539	00				2.-2	032064	00
		2 DF	036172	00				2 DF	057835	00
03	100	2.+2	169403	00		03	010	2.+2	044254	−03
		2. 0	320798	00				2. 0	073107	−02
		2.-2	432853	00				2.-2	036372	−01
		2 DF	038954	00				2 DF	110973	−01
						2	03	F	056084	01

Table 2 (cont.).

04	180	2.+2	395284	00		04	090	2.+2	096090	00
		2. 0	395284	00				2. 0	227546	00
		2.-2	395284	00				2.-2	355774	00
		2 DF	196349	-01				2 DF	032105	00
04	170	2.+2	367024	00		04	080	2.+2	070428	00
		2. 0	393092	00				2. 0	192028	00
		2.-2	418822	00				2.-2	314685	00
		2 DF	197676	-01				2 DF	035490	00
04	160	2.+2	335077	00		04	070	2.+2	048698	00
		2. 0	386529	00				2. 0	155075	00
		2.-2	436683	00				2.-2	268159	00
		2 DF	201687	-01				2 DF	039321	00
04	150	2.+2	300524	00		04	060	2.+2	311342	-01
		2. 0	375640	00				2. 0	117848	00
		2.-2	448031	00				2.-2	217581	00
		2 DF	208477	-01				2 DF	043406	00
04	140	2.+2	264454	00		04	050	2.+2	177915	-01
		2. 0	360503	00				2. 0	081924	00
		2.-2	452186	00				2.-2	164712	00
		2 DF	218205	-01				2 DF	047154	00
04	130	2.+2	227931	00		04	040	2.+2	085379	-01
		2. 0	341237	00				2. 0	049418	00
		2.-2	448652	00				2.-2	111866	00
		2 DF	231098	-01				2 DF	048953	00
04	120	2.+2	191964	00		04	030	2.+2	301281	-02
		2. 0	318017	00				2. 0	230851	-01
		2.-2	437151	00				2.-2	062416	00
		2 DF	247452	-01				2 DF	044738	00
04	110	2.+2	157478	00		04	020	2.+2	054666	-02
		2. 0	291083	00				2. 0	061113	-01
		2.-2	417643	00				2.-2	221719	-01
		2 DF	267630	-01				2 DF	267841	-01
04	100	2.+2	125289	00		04	010	2.+2	106908	-04
		2. 0	260773	00				2. 0	224451	-03
		2.-2	390353	00				2.-2	146820	-02
		2 DF	292036	-01				2 DF	178800	-02
						2	04	F	404593	00

Table 2 (cont.).

05	180	2.+2	323662	00		05	090	2.+2	069338	00
		2. 0	323662	00				2. 0	180105	00
		2.-2	323662	00				2.-2	311377	00
		2 DF	131642	-01				2 DF	232582	-01
05	170	2.+2	297321	00		05	080	2.+2	049688	00
		2. 0	321772	00				2. 0	150150	00
		2.-2	346451	00				2.-2	275531	00
		2 DF	132756	-01				2 DF	257867	-01
05	160	2.+2	268405	00		05	070	2.+2	033444	00
		2. 0	316115	00				2. 0	119272	00
		2.-2	364745	00				2.-2	234001	00
		2 DF	136121	-01				2 DF	284564	-01
05	150	2.+2	237893	00		05	060	2.+2	206737	-01
		2. 0	306735	00				2. 0	038580	00
		2.-2	377671	00				2.-2	188104	00
		2 DF	141804	-01				2 DF	309446	-01
05	140	2.+2	206733	00		05	050	2.+2	112998	-01
		2. 0	293706	00				2. 0	059551	00
		2.-2	384463	00				2.-2	139691	00
		2 DF	149918	-01				2 DF	032507	00
05	130	2.+2	175819	00		05	040	2.+2	050885	-01
		2. 0	277145	00				2. 0	034103	00
		2.-2	384495	00				2.-2	091420	00
		2 DF	160613	-01				2 DF	031541	00
05	120	2.+2	145966	00		05	030	2.+2	162149	-02
		2. 0	257221	00				2. 0	145704	-01
		2.-2	377319	00				2.-2	047373	00
		2 DF	174073	-01				2 DF	250826	-01
05	110	2.+2	117887	00		05	020	2.+2	241324	-03
		2. 0	234168	00				2. 0	032108	-01
		2.-2	362694	00				2.-2	142263	-01
		2 DF	190483	-01				2 DF	108484	-01
05	100	2.+2	092186	00		05	010	2.+2	263715	-05
		2. 0	208314	00				2. 0	067156	-03
		2.-2	340622	00				2.-2	054419	-02
		2 DF	209989	-01				2 DF	244322	-03
						2	05	F	278098	00

TABLE 2 (cont.).

06	180	2.+2	261573	00		06	090	2.+2	049908	00
		2. 0	261573	00				2. 0	140709	00
		2.−2	261573	00				2.−2	265435	00
		2 DF	085980	−01				2 DF	162381	−01
06	170	2.+2	238000	00		06	080	2.+2	035015	00
		2. 0	259970	00				2. 0	115878	00
		2.−2	282528	00				2.−2	234466	00
		2 DF	086855	−01				2 DF	179846	−01
06	160	2.+2	212691	00		06	070	2.+2	229750	−01
		2. 0	255172	00				2. 0	090534	00
		2.−2	299980	00				2.−2	197967	00
		2 DF	089495	−01				2 DF	196721	−01
06	150	2.+2	186502	00		06	060	2.+2	137537	−01
		2. 0	247220	00				2. 0	065699	00
		2.−2	313076	00				2.−2	157224	00
		2 DF	093946	−01				2 DF	209503	−01
06	140	2.+2	160236	00		06	050	2.+2	072028	−01
		2. 0	236185	00				2. 0	042704	00
		2.−2	321030	00				2.−2	114176	00
		2 DF	100279	−01				2 DF	211301	−01
06	130	2.+2	134622	00		06	040	2.+2	304961	−02
		2. 0	222178	00				2. 0	232090	−01
		2.−2	323157	00				2.−2	071738	00
		2 DF	108583	−01				2 DF	189916	−01
06	120	2.+2	110299	00		06	030	2.+2	087952	−02
		2. 0	205357	00				2. 0	090635	−01
		2.−2	318913	00				2.−2	034379	00
		2 DF	118950	−01				2 DF	129956	−01
06	110	2.+2	087806	00		06	020	2.+2	107661	−03
		2. 0	185947	00				2. 0	166102	−02
		2.−2	307932	00				2.−2	086848	−01
		2 DF	131435	−01				2 DF	040050	−01
06	100	2.+2	067571	00		06	010	2.+2	065982	−05
		2. 0	164257	00				2. 0	197523	−04
		2.−2	290067	00				2.−2	190847	−03
		2 DF	146001	−01				2 DF	299588	−04
						2	06	F	184375	00

TABLE 2 (cont.).

07	180	2.+2	209230	00		07	090	2.+2	035855	00
		2. 0	209230	00				2. 0	108829	00
		2.-2	209230	00				2.-2	221747	00
		2 DF	055012	-01				2 DF	109993	-01
07	170	2.+2	188733	00		07	080	2.+2	246560	-01
		2. 0	207887	00				2. 0	088534	00
		2.-2	227830	00				2.-2	195232	00
		2 DF	055665	-01				2 DF	121316	-01
07	160	2.+2	167115	00		07	070	2.+2	157884	-01
		2. 0	203871	00				2. 0	068031	00
		2.-2	243734	00				2.-2	163605	00
		2 DF	057636	-01				2 DF	131058	-01
07	150	2.+2	145105	00		07	060	2.+2	091643	-01
		2. 0	197218	00				2. 0	048238	00
		2.-2	256144	00				2.-2	128130	00
		2 DF	060952	-01				2 DF	136113	-01
07	140	2.+2	123367	00		07	050	2.+2	046045	-01
		2. 0	187996	00				2. 0	303125	-01
		2.-2	264300	00				2.-2	090797	00
		2 DF	065655	-01				2 DF	131148	-01
07	130	2.+2	102482	00		07	040	2.+2	183563	-02
		2. 0	176304	00				2. 0	156311	-01
		2.-2	267508	00				2.-2	054641	00
		2 DF	071791	-01				2 DF	108544	-01
07	120	2.+2	082943	00		07	030	2.+2	047992	-02
		2. 0	162292	00				2. 0	055778	-01
		2.-2	265186	00				2.-2	241519	-01
		2 DF	079388	-01				2 DF	063459	-01
07	110	2.+2	065146	00		07	020	2.+2	048411	-03
		2. 0	146167	00				2. 0	084965	-02
		2.-2	256899	00				2.-2	051169	-01
		2 DF	088422	-01				2 DF	138207	-02
07	100	2.+2	049385	00		07	.010	2.+2	166802	-06
		2. 0	128216	00				2. 0	057391	-04
		2.-2	242414	00				2.-2	064380	-03
		2 DF	098750	-01				2 DF	034029	-04
						2	07	F	118941	00

TABLE 2 (cont.).

08	180	2.+2	165971	00		08	090	2.+2	257221	−01
		2. 0	165971	00				2. 0	083499	00
		2.−2	165971	00				2.−2	182312	00
		2 DF	034616	−01				2 DF	072660	−01
08	170	2.+2	148530	00		08	080	2.+2	173512	−01
		2. 0	164860	00				2. 0	067104	00
		2.−2	182063	00				2.−2	159806	00
		2 DF	035085	−01				2 DF	079612	−01
08	160	2.+2	130405	00		08	070	2.+2	108536	−01
		2. 0	161535	00				2. 0	050716	00
		2.−2	196099	00				2.−2	132751	00
		2 DF	036500	−01				2 DF	084707	−01
08	150	2.+2	112205	00		08	060	2.+2	061145	−01
		2. 0	156031	00				2. 0	035136	00
		2.−2	207359	00				2.−2	102386	00
		2 DF	038877	−01				2 DF	085526	−01
08	140	2.+2	094468	00		08	050	2.+2	295058	−02
		2. 0	148408	00				2. 0	213449	−01
		2.−2	215133	00				2.−2	070694	00
		2 DF	042239	−01				2 DF	078443	−01
08	130	2.+2	077652	00		08	040	2.+2	110879	−02
		2. 0	138757	00				2. 0	104427	−01
		2.−2	218757	00				2.−2	040680	00
		2 DF	046601	−01				2 DF	059537	−01
08	120	2.+2	062129	00		08	030	2.+2	263126	−03
		2. 0	127214	00				2. 0	034044	−01
		2.−2	217648	00				2.−2	165545	−01
		2 DF	051957	−01				2 DF	295986	−02
08	110	2.+2	048182	00		08	020	2.+2	219029	−04
		2. 0	113968	00				2. 0	043090	−02
		2.−2	211350	00				2.−2	293566	−02
		2 DF	058243	−01				2 DF	045309	−02
08	100	2.+2	036010	00		08	010	2.+2	042499	−06
		2. 0	099278	00				2. 0	165236	−05
		2.−2	199585	00				2.−2	211021	−04
		2 DF	065276	−01				2 DF	036516	−05
						2	08	F	075113	00

TABLE 2 (cont.).

09	180	2.+2	130753	00		09	090	2.+2	184312	−01
		2. 0	130753	00				2. 0	063645	00
		2.−2	130753	00				2.−2	147959	00
		2 DF	214839	−02				2 DF	046996	−01
09	170	2.+2	116158	00		09	080	2.+2	122055	−01
		2. 0	129841	00				2. 0	050531	00
		2.−2	144403	00				2.−2	129013	00
		2 DF	218112	−02				2 DF	051055	−01
09	160	2.+2	101182	00		09	070	2.+2	074638	−01
		2. 0	127114	00				2. 0	037565	00
		2.−2	156500	00				2.−2	106140	00
		2 DF	227965	−02				2 DF	053388	−01
09	150	2.+2	086324	00		09	060	2.+2	040843	−01
		2. 0	122603	00				2. 0	254295	−01
		2.−2	166407	00				2.−2	080537	00
		2 DF	244490	−02				2 DF	052281	−01
09	140	2.+2	072016	00		09	050	2.+2	189452	−02
		2. 0	116361	00				2. 0	149340	−01
		2.−2	173481	00				2.−2	054124	00
		2 DF	267785	−02				2 DF	045525	−01
09	130	2.+2	058612	00		09	040	2.+2	067170	−02
		2. 0	108470	00				2. 0	069316	−01
		2.−2	177107	00				2.−2	297469	−01
		2 DF	297865	−02				2 DF	031591	−01
09	120	2.+2	046389	00		09	030	2.+2	144822	−03
		2. 0	099050	00				2. 0	206436	−02
		2.−2	176730	00				2.−2	111302	−01
		2 DF	033448	−01				2 DF	133103	−02
09	110	2.+2	035546	00		09	020	2.+2	099586	−04
		2. 0	088271	00				2. 0	217070	−03
		2.−2	171903	00				2.−2	164975	−02
		2 DF	037687	−01				2 DF	142691	−03
09	100	2.+2	262085	−01		09	010	2.+2	108957	−07
		2. 0	076365	00				2. 0	047236	−05
		2.−2	162335	00				2.−2	067651	−04
		2 DF	042322	−01				2 DF	037499	−06
						2	09	F	046634	00

TABLE 2 (cont.).

10	180	2.+2	102412	00		10	090	2.+2	131946	−01
		2. 0	102412	00				2. 0	048249	00
		2.−2	102412	00				2.−2	118798	00
		2 DF	131799	−02				2 DF	298559	−02
10	170	2.+2	090362	00		10	080	2.+2	085832	−01
		2. 0	101669	00				2. 0	037847	00
		2.−2	113813	00				2.−2	102972	00
		2 DF	134023	−02				2 DF	032108	−01
10	160	2.+2	078132	00		10	070	2.+2	051344	−01
		2. 0	099451	00				2. 0	276758	−01
		2.−2	124050	00				2.−2	083842	00
		2 DF	140715	−02				2 DF	032944	−01
10	150	2.+2	066130	00		10	060	2.+2	273104	−02
		2. 0	095784	00				2. 0	183068	−01
		2.−2	132568	00				2.−2	062540	00
		2 DF	151920	−02				2 DF	312314	−02
10	140	2.+2	054695	00		10	050	2.+2	121853	−02
		2. 0	090713	00				2. 0	103937	−01
		2.−2	138800	00				2.−2	040875	00
		2 DF	167668	−02				2 DF	257673	−02
10	130	2.+2	044098	00		10	040	2.+2	040791	−02
		2. 0	084313	00				2. 0	045768	−01
		2.−2	142190	00				2.−2	214372	−01
		2 DF	187898	−02				2 DF	163126	−02
10	120	2.+2	034544	00		10	030	2.+2	079966	−03
		2. 0	076688	00				2. 0	124512	−02
		2.−2	142229	00				2.−2	073681	−01
		2 DF	212315	−02				2 DF	058104	−02
10	110	2.+2	261685	−01		10	020	2.+2	045463	−04
		2. 0	067988	00				2. 0	108756	−03
		2.−2	138496	00				2.−2	091190	−02
		2 DF	240171	−02				2 DF	043508	−03
10	100	2.+2	190456	−01		10	010	2.+2	280731	−08
		2. 0	058416	00				2. 0	134270	−06
		2.−2	130710	00				2.−2	213102	−05
		2 DF	269897	−02				2 DF	037186	−07
						2	10	F	285521	−01

TABLE 2 (cont.).

12	180	2.+2	061942	00		12	090	2.+2	067476	−01
		2. 0	061942	00				2. 0	273656	−01
		2.−2	061942	00				2.−2	074635	00
		2 DF	048215	−02				2 DF	115268	−02
12	170	2.+2	053980	00		12	080	2.+2	042420	−01
		2. 0	061460	00				2. 0	209570	−01
		2.−2	069620	00				2.−2	063834	00
		2 DF	049184	−02				2 DF	121059	−02
12	160	2.+2	046047	00		12	070	2.+2	243222	−02
		2. 0	060022	00				2. 0	148307	−01
		2.−2	076654	00				2.−2	050827	00
		2 DF	052094	−02				2 DF	119120	−02
12	150	2.+2	038405	00		12	060	2.+2	122428	−02
		2. 0	057646	00				2. 0	093684	−01
		2.−2	082645	00				2.−2	036579	00
		2 DF	056952	−02				2 DF	105409	−02
12	140	2.+2	031261	00		12	050	2.+2	050628	−02
		2. 0	054367	00				2. 0	049717	−01
		2.−2	087170	00				2.−2	225714	−01
		2 DF	063739	−02				2 DF	077732	−02
12	130	2.+2	247687	−01		12	040	2.+2	151351	−03
		2. 0	050241	00				2. 0	197064	−02
		2.−2	089803	00				2.−2	107589	−01
		2 DF	072367	−02				2 DF	040762	−02
12	120	2.+2	190323	−01		12	030	2.+2	245727	−04
		2. 0	045345	00				2. 0	044733	−02
		2.−2	090145	00				2.−2	311408	−02
		2 DF	082596	−02				2 DF	103247	−03
12	110	2.+2	141105	−01		12	020	2.+2	095671	−05
		2. 0	039791	00				2. 0	269554	−04
		2.−2	087855	00				2.−2	268148	−03
		2 DF	093914	−02				2 DF	037517	−04
12	100	2.+2	100214	−01		12	010	2.+2	188555	−09
		2. 0	033730	00				2. 0	107070	−07
		2.−2	082704	00				2.−2	203058	−06
		2 DF	105356	−02				2 DF	033736	−09
						2	12	F	103532	−01

<div align="center">TABLE 2 (cont.).</div>

14	180	2.+2	036905	00		14	090	2.+2	034434	−01
		2. 0	036905	00				2. 0	153085	−01
		2.−2	036905	00				2.−2	045647	00
		2 DF	171156	−03				2 DF	042445	−02
14	170	2.+2	031806	00		14	080	2.+2	209562	−02
		2. 0	036599	00				2. 0	114483	−01
		2.−2	041897	00				2.−2	038467	00
		2 DF	175128	−03				2 DF	043380	−02
14	160	2.+2	268033	−01		14	070	2.+2	115358	−02
		2. 0	035686	00				2. 0	078422	−01
		2.−2	046540	00				2.−2	299078	−01
		2 DF	187046	−03				2 DF	040787	−02
14	150	2.+2	220590	−01		14	060	2.+2	055045	−02
		2. 0	034181	00				2. 0	047317	−01
		2.−2	050558	00				2.−2	207335	−01
		2 DF	206880	−03				2 DF	033560	−02
14	140	2.+2	176955	−01		14	050	2.+2	211344	−03
		2. 0	032107	00				2. 0	234761	−02
		2.−2	053652	00				2.−2	120588	−01
		2 DF	234431	−03				2 DF	220306	−03
14	130	2.+2	137974	−01		14	040	2.+2	056520	−03
		2. 0	295039	−01				2. 0	083768	−02
		2.−2	055514	00				2.−2	052150	−01
		2 DF	269081	−03				2 DF	095282	−03
14	120	2.+2	104150	−01		14	030	2.+2	076132	−04
		2. 0	264283	−01				2. 0	158670	−03
		2.−2	055848	00				2.−2	126884	−02
		2 DF	309400	−03				2 DF	170840	−04
14	110	2.+2	075687	−01		14	020	2.+2	203351	−06
		2. 0	229596	−01				2. 0	065953	−04
		2.−2	054404	00				2.−2	075870	−03
		2 DF	035256	−02				2 DF	299845	−06
14	100	2.+2	052535	−01		14	010	2.+2	128157	−10
		2. 0	192057	−01				2. 0	084259	−08
		2.−2	051015	00				2.−2	185820	−07
		2 DF	039357	−02				2 DF	282382	−12
						2	14	F	036276	−01

TABLE 2 (cont.).

16	180	2.+2	217313	−01		16	090	2.+2	175469	−02
		2. 0	217313	−01				2. 0	084733	−01
		2.−2	217313	−01				2.−2	273501	−01
		2 DF	059345	−03				2 DF	150603	−03
16	170	2.+2	185408	−01		16	080	2.+2	103507	−02
		2. 0	215406	−01				2. 0	061892	−01
		2.−2	248942	−01				2.−2	226857	−01
		2 DF	060901	−03				2 DF	149406	−03
16	160	2.+2	154511	−01		16	070	2.+2	054776	−02
		2. 0	209714	−01				2. 0	041047	−01
		2.−2	278711	−01				2.−2	172038	−01
		2 DF	065567	−03				2 DF	133884	−03
16	150	2.+2	125612	−01		16	060	2.+2	248108	−03
		2. 0	200334	−01				2. 0	236614	−02
		2.−2	304777	−01				2.−2	114760	−01
		2 DF	073309	−03				2 DF	102159	−03
16	140	2.+2	099415	−01		16	050	2.+2	088560	−03
		2. 0	187440	−01				2. 0	109769	−02
		2.−2	032509	00				2.−2	062840	−01
		2 DF	084000	−03				2 DF	059533	−03
16	130	2.+2	076369	−01		16	040	2.+2	212154	−04
		2. 0	171302	−01				2. 0	035265	−02
		2.−2	033750	00				2.−2	246281	−02
		2 DF	097300	−03				2 DF	211750	−04
16	120	2.+2	056697	−01		16	030	2.+2	237389	−05
		2. 0	152313	−01				2. 0	055743	−03
		2.−2	033996	00				2.−2	050307	−02
		2 DF	112476	−03				2 DF	267961	−05
16	110	2.+2	040435	−01		16	020	2.+2	043553	−06
		2. 0	131024	−01				2. 0	159829	−05
		2.−2	033070	00				2.−2	208635	−04
		2 DF	128150	−03				2 DF	226481	−07
16	100	2.+2	274649	−02		16	010	2.+2	087883	−11
		2. 0	108176	−01				2. 0	065661	−09
		2.−2	308582	−01				2.−2	165057	−08
		2 DF	142015	−03				2 DF	222734	−14
						2	16	F	123845	−02

TABLE 2 (cont.).

18	180	2.+2	126758	−01		18	090	2.+2	089317	−02
		2. 0	126758	−01				2. 0	046506	−01
		2.−2	126758	−01				2.−2	161222	−01
		2 DF	201914	−04				2 DF	051863	−03
18	170	2.+2	107150	−01		18	080	2.+2	051123	−02
		2. 0	125585	−01				2. 0	033185	−01
		2.−2	146404	−01				2.−2	131523	−01
		2 DF	207804	−04				2 DF	049849	−03
18	160	2.+2	088379	−01		18	070	2.+2	260368	−03
		2. 0	122086	−01				2. 0	213127	−02
		2.−2	165077	−01				2.−2	097212	−01
		2 DF	225439	−04				2 DF	042493	−03
18	150	2.+2	071035	−01		18	060	2.+2	112066	−03
		2. 0	116326	−01				2. 0	117392	−02
		2.−2	181570	−01				2.−2	062348	−01
		2 DF	254616	−04				2 DF	300115	−04
18	140	2.+2	055517	−01		18	050	2.+2	037226	−03
		2. 0	108422	−01				2. 0	050931	−02
		2.−2	194519	−01				2.−2	032116	−01
		2 DF	294670	−04				2 DF	154949	−04
18	130	2.+2	042056	−01		18	040	2.+2	079963	−04
		2. 0	098558	−01				2. 0	147342	−03
		2.−2	202483	−01				2.−2	113971	−02
		2 DF	034394	−03				2 DF	045233	−04
18	120	2.+2	307382	−02		18	030	2.+2	074399	−05
		2. 0	086999	−01				2. 0	194374	−04
		2.−2	204060	−01				2.−2	195292	−03
		2 DF	039903	−03				2 DF	040317	−05
18	110	2.+2	215349	−02		18	020	2.+2	093847	−07
		2. 0	074117	−01				2. 0	038444	−05
		2.−2	198067	−01				2.−2	056124	−04
		2 DF	045377	−03				2 DF	163764	−08
18	100	2.+2	143280	−02		18	010	2.+2	060683	−12
		2. 0	060407	−01				2. 0	050783	−10
		2.−2	183778	−01				2.−2	143304	−09
		2 DF	049828	−03				2 DF	167858	−16
						2	18	F	041427	−02

TABLE 2 (cont.).

20	180	2.+2	073366	−01		20	090	2.+2	045428	−02
		2. 0	073366	−01				2. 0	253511	−02
		2.−2	073366	−01				2.−2	093788	−01
		2 DF	067639	−04				2 DF	174269	−04
20	170	2.+2	061486	−01		20	080	2.+2	252524	−03
		2. 0	072652	−01				2. 0	176753	−02
		2.−2	085379	−01				2.−2	075206	−01
		2 DF	069806	−04				2 DF	162055	−04
20	160	2.+2	050230	−01		20	070	2.+2	123879	−03
		2. 0	070527	−01				2. 0	109942	−02
		2.−2	096891	−01				2.−2	054146	−01
		2 DF	076287	−04				2 DF	131223	−04
20	150	2.+2	039944	−01		20	060	2.+2	050710	−03
		2. 0	067031	−01				2. 0	057873	−02
		2.−2	107127	−01				2.−2	033368	−01
		2 DF	086978	−04				2 DF	085657	−04
20	140	2.+2	308513	−02		20	050	2.+2	156900	−04
		2. 0	062243	−01				2. 0	234857	−03
		2.−2	115200	−01				2.−2	161602	−02
		2 DF	101568	−04				2 DF	039125	−04
20	130	2.+2	230646	−02		20	040	2.+2	302435	−05
		2. 0	056284	−01				2. 0	061188	−03
		2.−2	120161	−01				2.−2	051894	−02
		2 DF	119315	−04				2 DF	093603	−05
20	120	2.+2	166090	−02		20	030	2.+2	234150	−06
		2. 0	049331	−01				2. 0	067373	−04
		2.−2	121087	−01				2.−2	074545	−03
		2 DF	138735	−04				2 DF	058676	−06
20	110	2.+2	114402	−02		20	020	2.+2	203203	−08
		2. 0	041627	−01				2. 0	091925	−06
		2.−2	117206	−01				2.−2	148364	−05
		2 DF	157237	−04				2 DF	114374	−09
20	100	2.+2	074623	−02		20	010	2.+2	042134	−13
		2. 0	033497	−01				2. 0	039042	−11
		2.−2	108075	−01				2.−2	122189	−10
		2 DF	170836	−04				2 DF	122017	−18
						2	20	F	136330	−03

TABLE 2 (cont.).

40	180	2.+2	242113	−04
		2. 0	242113	−04
		2.−2	242113	−04
		2 DF	073662	−09
40	170	2.+2	190282	−04
		2. 0	238763	−04
		2.−2	297649	−04
		2 DF	077900	−09
40	160	2.+2	144444	−04
		2. 0	228823	−04
		2.−2	035321	−03
		2 DF	090445	−09
40	150	2.+2	105725	−04
		2. 0	212642	−04
		2.−2	040365	−03
		2 DF	110574	−09
40	140	2.+2	074367	−04
		2. 0	190858	−04
		2.−2	044257	−03
		2 DF	136397	−09
40	130	2.+2	050001	−04
		2. 0	164470	−04
		2.−2	046291	−03
		2 DF	164013	−09
40	120	2.+2	031877	−04
		2. 0	134906	−04
		2.−2	045820	−03
		2 DF	186903	−09
40	110	2.+2	190442	−05
		2. 0	104041	−04
		2.−2	042433	−03
		2 DF	196382	−09
40	100	2.+2	104789	−05
		2. 0	074131	−04
		2.−2	036172	−03
		2 DF	184219	−09

40	090	2.+2	051767	−05
		2. 0	047574	−04
		2.−2	277190	−04
		2 DF	147724	−09
40	080	2.+2	220858	−06
		2. 0	264706	−05
		2.−2	184244	−04
		2 DF	095007	−09
40	070	2.+2	076548	−06
		2. 0	120318	−05
		2.−2	100430	−04
		2 DF	044337	−09
40	060	2.+2	194741	−07
		2. 0	040491	−05
		2.−2	040895	−04
		2 DF	126925	−10
40	050	2.+2	303428	−08
		2. 0	084679	−06
		2.−2	105219	−05
		2 DF	164254	−11
40	040	2.+2	202522	−09
		2. 0	077798	−07
		2.−2	122520	−06
		2 DF	051834	−12
40	030	2.+2	254587	−11
		2. 0	141087	−09
		2.−2	297239	−08
		2 DF	092922	−15
40	020	2.+2	053421	−14
		2. 0	047089	−12
		2.−2	147898	−11
		2 DF	113443	−21
40	010	2.+2	129364	−25
		2. 0	236159	−23
		2.−2	146365	−21
		2 DF	174987	−40
2	40	F	124705	−08

Table 3. $I_{3\mu}$ (ϑ, ξ), df_{E3} $(\vartheta, \xi)/d\Omega$ and f_{E3} (ξ).

02	180	3.+3	242049	00		02	100	3.+3	076150	00
		3.+1	242049	00				3.+1	126661	00
		3.-1	242049	00				3.-1	159656	00
		3.-3	242049	00				3.-3	155212	00
		3 DF	037563	-01				3 DF	031889	-01
02	170	3.+3	229876	00		02	090	3.+3	056470	00
		3.+1	237097	00				3.+1	105068	00
		3.-1	243528	00				3.-1	137310	00
		3.-3	249100	00				3.-3	129333	00
		3 DF	037474	-01				3 DF	303358	-02
02	160	3.+3	213265	00		02	080	3.+3	039688	00
		3.+1	228829	00				3.+1	083746	00
		3.-1	241450	00				3.-1	113927	00
		3.-3	250597	00				3.-3	103658	00
		3 DF	037207	-01				3 DF	285381	-02
02	150	3.+3	193103	00		02	070	3.+3	260904	-01
		3.+1	217468	00				3.+1	063415	00
		3.-1	235805	00				3.-1	090322	00
		3.-3	246395	00				3.-3	079355	00
		3 DF	036765	-01				3 DF	264450	-02
02	140	3.+3	170419	00		02	060	3.+3	157249	-01
		3.+1	203304	00				3.+1	044833	00
		3.-1	226663	00				3.-1	067432	00
		3.-3	236651	00				3.-3	057439	00
		3 DF	036146	-01				3 DF	239815	-02
02	130	3.+3	146315	00		02	050	3.+3	084119	-01
		3.+1	186691	00				3.+1	287677	-01
		3.-1	214179	00				3.-1	046307	00
		3.-3	221821	00				3.-3	038693	00
		3 DF	035353	-01				3 DF	210473	-02
02	120	3.+3	121897	00		02	040	3.+3	037711	-01
		3.+1	168049	00				3.+1	159324	-01
		3.-1	198601	00				3.-1	280645	-01
		3.-3	202635	00				3.-3	236132	-01
		3 DF	034383	-01				3 DF	175217	-02
02	110	3.+3	098204	00		02	030	3.+3	126157	-02
		3.+1	147857	00				3.+1	068802	-01
		3.-1	180276	00				3.-1	138111	-01
		3.-3	180056	00				3.-3	123726	-01
		3 DF	033232	-01				3 DF	132843	-02

TABLE 3 (cont.).

02	020	3.+3	235291	-03		04	130	3.+3	098053	00
		3.+1	179359	-02				3.+1	138731	00
		3.-1	044727	-01				3.-1	177188	00
		3.-3	048329	-01				3.-3	205869	00
		3 DF	082293	-02				3 DF	244643	-02
02	010	3.+3	077688	-04		04	120	3.+3	078640	00
		3.+1	102117	-03				3.+1	122749	00
		3.-1	040499	-02				3.-1	165152	00
		3.-3	073394	-02				3.-3	194128	00
		3 DF	223411	-03				3 DF	246753	-02
3	02	F	035323	00		04	110	3.+3	060833	00
								3.+1	105927	00
								3.-1	150449	00
								3.-3	178121	00
								3 DF	248041	-02
04	180	3.+3	192022	00		04	100	3.+3	045137	00
		3.+1	192022	00				3.+1	088743	00
		3.-1	192022	00				3.-1	133442	00
		3.-3	192022	00				3.-3	158612	00
		3 DF	236404	-02				3 DF	247882	-02
04	170	3.+3	176622	00		04	090	3.+3	031879	00
		3.+1	186033	00				3.+1	071712	00
		3.-1	195169	00				3.-1	114619	00
		3.-3	203955	00				3.-3	136563	00
		3 DF	236826	-02				3 DF	245510	-02
04	160	3.+3	158603	00		04	080	3.+3	212006	-01
		3.+1	177419	00				3.+1	055378	00
		3.-1	195318	00				3.-1	094606	00
		3.-3	211712	00				3.-3	113086	00
		3 DF	238044	-02				3 DF	239987	-02
04	150	3.+3	138884	00		04	070	3.+3	130638	-01
		3.+1	166446	00				3.+1	040305	00
		3.-1	192373	00				3.-1	074180	00
		3.-3	214767	00				3.-3	089360	00
		3 DF	239920	-02				3 DF	230139	-02
04	140	3.+3	118402	00		04	060	3.+3	072764	-01
		3.+1	153431	00				3.+1	270566	-01
		3.-1	186310	00				3.-1	054272	00
		3.-3	212830	00				3.-3	066561	00
		3 DF	242227	-02				3 DF	214457	-02

TABLE 3 (cont.).

04	050	3.+3	035162	-01		06	180	3.+3	140477	00
		3.+1	161602	-01				3.+1	140477	00
		3.-1	035959	00				3.-1	140477	00
		3.-3	045777	00				3.-3	140477	00
		3 DF	190967	-02				3 DF	126521	-02
04	040	3.+3	136833	-02		06	170	3.+3	125892	00
		3.+1	080411	-01				3.+1	134869	00
		3.-1	204245	-01				3.-1	143933	00
		3.-3	279584	-01				3.-3	153028	00
		3 DF	157054	-02				3 DF	127372	-02
04	030	3.+3	036701	-02		06	160	3.+3	110052	00
		3.+1	290268	-02				3.+1	127334	00
		3.-1	088489	-01				3.-1	145058	00
		3.-3	139029	-01				3.-3	162809	00
		3 DF	109599	-02				3 DF	129875	-02
04	020	3.+3	045064	-03		06	150	3.+3	093722	00
		3.+1	052638	-02				3.+1	118127	00
		3.-1	213131	-02				3.-1	143721	00
		3.-3	043778	-01				3.-3	169169	00
		3 DF	048608	-02				3 DF	133880	-02
04	010	3.+3	044968	-05		05	140	3.+3	077612	00
		3.+1	098568	-04				3.+1	107539	00
		3.-1	069483	-03				3.-1	139851	00
		3.-3	257358	-03				3.-3	171603	00
		3 DF	240245	-04				3 DF	139130	-02
3	04	F	272275	-01		06	130	3.+3	062338	00
								3.+1	095886	00
								3.-1	133445	00
								3.-3	169789	00
								3 DF	145261	-02
						06	120	3.+3	048399	00
								3.+1	083508	00
								3.-1	124579	00
								3.-3	163628	00
								3 DF	151783	-02
						06	110	3.+3	036155	00
								3.+1	070767	00
								3.-1	113429	00
								3.-3	153267	00
								3 DF	158070	-02

TABLE 3 (cont.).

06	100	3.+3	258237	−01
		3.+1	058043	00
		3.−1	100276	00
		3.−3	139109	00
		3 DF	163332	−02
06	090	3.+3	174801	−01
		3.+1	045731	00
		3.−1	085530	00
		3.−3	121800	00
		3 DF	166577	−02
06	080	3.+3	110734	−01
		3.+1	034236	00
		3.−1	069743	00
		3.−3	102211	00
		3 DF	166558	−02
06	070	3.+3	064431	−01
		3.+1	239557	−01
		3.−1	053620	00
		3.−3	081391	00
		3 DF	161705	−02
06	060	3.+3	033438	−01
		3.+1	152656	−01
		3.−1	038024	00
		3.−3	060518	00
		3 DF	150058	−02
06	050	3.+3	147340	−02
		3.+1	084787	−01
		3.−1	239602	−01
		3.−3	040853	00
		3 DF	129304	−02
06	040	3.+3	050328	−02
		3.+1	037822	−01
		3.−1	125059	−01
		3.−3	237061	−01
		3 DF	097318	−02
06	030	3.+3	109745	−03
		3.+1	113656	−02
		3.−1	046384	−01
		3.−3	104393	−01
		3 DF	054774	−02

06	020	3.+3	090392	−04
		3.+1	142251	−03
		3.−1	079657	−02
		3.−3	241800	−02
		3 DF	137495	−03
06	010	3.+3	280755	−07
		3.+1	086187	−05
		3.−1	087327	−04
		3.−3	048868	−03
		3 DF	084526	−05
3	06	F	173639	−01
08	180	3.+3	097409	00
		3.+1	097409	00
		3.−1	097409	00
		3.−3	097409	00
		3 DF	060835	−02
08	170	3.+3	085404	00
		3.+1	092806	00
		3.−1	100469	00
		3.−3	108366	00
		3 DF	061562	−02
08	160	3.+3	072970	00
		3.+1	086856	00
		3.−1	101817	00
		3.−3	117635	00
		3 DF	063709	−02
08	150	3.+3	060671	00
		3.+1	079782	00
		3.−1	101320	00
		3.−3	124600	00
		3 DF	067171	−02
08	140	3.+3	048991	00
		3.+1	071820	00
		3.−1	098892	00
		3.−3	128712	00
		3 DF	071767	−02

TABLE 3 (cont.).

08	130	3.+3	038313	00		08	050	3.+3	061904	−02
		3.+1	063226	00				3.+1	042754	−01
		3.−1	094502	00				3.−1	145928	−01
		3.−3	129535	00				3.−3	310122	−01
		3 DF	077222	−02				3 DF	069143	−02
08	120	3.+3	289092	−01		08	040	3.+3	186800	−03
		3.+1	054265	00				3.+1	170973	−02
		3.−1	088189	00				3.−1	069433	−01
		3.−3	126792	00				3.−3	167499	−01
		3 DF	083153	−02				3 DF	045576	−02
08	110	3.+3	209381	−01		08	030	3.+3	033362	−03
		3.+1	045211	00				3.+1	042737	−02
		3.−1	080075	00				3.−1	218121	−02
		3.−3	120405	00				3.−3	063740	−01
		3 DF	089039	−02				3 DF	194647	−03
08	100	3.+3	144544	−01		08	020	3.+3	186012	−05
		3.+1	036345	00				3.+1	036842	−03
		3.−1	070379	00				3.−1	263169	−03
		3.−3	110520	00				3.−3	105560	−02
		3 DF	094186	−02				3 DF	254878	−04
08	090	3.+3	094173	−01		08	010	3.+3	182037	−08
		3.+1	279498	−01				3.+1	071897	−06
		3.−1	059439	00				3.−1	094980	−05
		3.−3	097534	00				3.−3	071060	−04
		3 DF	097694	−02				3 DF	177230	−07
08	080	3.+3	057087	−01						
		3.+1	203041	−01		3	08	F	095574	−01
		3.−1	047720	00						
		3.−3	082090	00						
		3 DF	098410	−02						
08	070	3.+3	031516	−01						
		3.+1	136702	−01						
		3.−1	035827	00						
		3.−3	065079	00						
		3 DF	094917	−02						
08	060	3.+3	153190	−02						
		3.+1	082748	−01						
		3.−1	245037	−01						
		3.−3	047614	00						
		3 DF	085620	−02						

TABLE 3 (cont.).

10	180	3.+3	065031	00		10	100	3.+3	079715	−01
		3.+1	065031	00				3.+1	220840	−01
		3.−1	065031	00				3.−1	047117	00
		3.−3	065031	00				3.−3	082034	00
		3 DF	271143	−03				3 DF	048976	−02
10	170	3.+3	055944	00		10	090	3.+3	050145	−01
		3.+1	061544	00				3.+1	165917	−01
		3.−1	067452	00				3.−1	039336	00
		3.−3	073658	00				3.−3	072573	00
		3 DF	275817	−03				3 DF	051176	−02
10	160	3.+3	046853	00		10	080	3.+3	291819	−02
		3.+1	057153	00				3.+1	117065	−01
		3.−1	068666	00				3.−1	310349	−01
		3.−3	081327	00				3.−3	060892	00
		3 DF	289657	−03				3 DF	051365	−02
10	150	3.+3	038142	00		10	070	3.+3	153382	−02
		3.+1	052031	00				3.+1	075903	−01
		3.−1	068558	00				3.−1	227042	−01
		3.−3	087522	00				3.−3	047732	00
		3 DF	312085	−03				3 DF	048585	−02
10	140	3.+3	301180	−01		10	060	3.+3	070082	−02
		3.+1	046362	00				3.+1	043677	−01
		3.−1	067046	00				3.−1	149372	−01
		3.−3	091747	00				3.−3	034098	00
		3 DF	034204	−02				3 DF	041946	−02
10	130	3.+3	229979	−01		10	050	3.+3	260730	−03
		3.+1	040337	00				3.+1	210065	−02
		3.−1	064092	00				3.−1	083806	−01
		3.−3	093565	00				3.−3	212382	−01
		3 DF	037786	−02				3 DF	311474	−03
10	120	3.+3	169126	−01		10	040	3.+3	069797	−03
		3.+1	034151	00				3.+1	075338	−02
		3.−1	059714	00				3.−1	036206	−01
		3.−3	092644	00				3.−3	105696	−01
		3 DF	041704	−02				3 DF	175597	−03
10	110	3.+3	119110	−01		10	030	3.+3	102575	−04
		3.+1	280014	−01				3.+1	156662	−03
		3.−1	053999	00				3.−1	095846	−02
		3.−3	088800	00				3.−3	034365	−01
		3 DF	045599	−02				3 DF	055257	−03

TABLE 3 (cont.).

10	020	3.+3	038916	−05
		3.+1	092976	−04
		3.−1	080700	−03
		3.−3	040187	−02
		3 DF	036460	−04
10	010	3.+3	120762	−09
		3.+1	058342	−07
		3.−1	095007	−06
		3.−3	088939	−05
		3 DF	276559	−09
3	10	F	047217	−01
15	180	3.+3	212135	−01
		3.+1	212135	−01
		3.−1	212135	−01
		3.−3	212135	−01
		3 DF	288522	−04
15	170	3.+3	175504	−01
		3.+1	197972	−01
		3.−1	222476	−01
		3.−3	249106	−01
		3 DF	297156	−04
15	160	3.+3	141000	−01
		3.+1	180842	−01
		3.−1	228409	−01
		3.−3	284412	−01
		3 DF	032312	−03
15	150	3.+3	109804	−01
		3.+1	161487	−01
		3.−1	229302	−01
		3.−3	031555	00
		3 DF	036555	−03
15	140	3.+3	082682	−01
		3.+1	140693	−01
		3.−1	224704	−01
		3.−3	033987	00
		3 DF	042274	−03

15	130	3.+3	059987	−01
		3.+1	119238	−01
		3.−1	214368	−01
		3.−3	035469	00
		3 DF	049149	−03
15	120	3.+3	041730	−01
		3.+1	097883	−01
		3.−1	198325	−01
		3.−3	035762	00
		3 DF	056629	−03
15	110	3.+3	276459	−02
		3.+1	077360	−01
		3.−1	176965	−01
		3.−3	034689	00
		3 DF	063847	−03
15	100	3.+3	172776	−02
		3.+1	058357	−01
		3.−1	151118	−01
		3.−3	032169	00
		3 DF	069547	−03
15	090	3.+3	100492	−02
		3.+1	041497	−01
		3.−1	122126	−01
		3.−3	282610	−01
		3 DF	072089	−03
15	080	3.+3	053324	−02
		3.+1	273088	−02
		3.−1	091865	−01
		3.−3	231946	−01
		3 DF	069642	−03
15	070	3.+3	250395	−03
		3.+1	161655	−02
		3.−1	062693	−01
		3.−3	174012	−01
		3 DF	060720	−03
15	060	3.+3	099043	−03
		3.+1	082201	−02
		3.−1	037229	−01
		3.−3	115095	−01
		3 DF	045265	−03

TABLE 3 (cont.).

15	050	3.+3	302943	−04
		3.+1	033137	−02
		3.−1	178783	−02
		3.−3	062911	−01
		3 DF	261050	−04
15	040	3.+3	060798	−04
		3.+1	090717	−03
		3.−1	060199	−02
		3.−3	249949	−02
		3 DF	094731	−04
15	030	3.+3	055525	−05
		3.+1	119241	−04
		3.−1	102861	−03
		3.−3	053623	−02
		3 DF	131264	−05
15	020	3.+3	081470	−07
		3.+1	278340	−06
		3.−1	034791	−04
		3.−3	256630	−04
		3 DF	146734	−07
15	010	3.+3	145122	−12
		3.+1	102191	−10
		3.−1	244787	−09
		3.−3	034370	−07
		3 DF	041144	−13
3	15	F	059321	−02

20	180	3.+3	062533	−01
		3.+1	062533	−01
		3.−1	062533	−01
		3.−3	062533	−01
		3 DF	250713	−05
20	170	3.+3	050160	−01
		3.+1	057720	−01
		3.−1	066163	−01
		3.−3	075560	−01
		3 DF	261434	−05
20	160	3.+3	038962	−01
		3.+1	052009	−01
		3.−1	068338	−01
		3.−3	088505	−01
		3 DF	293449	−05
20	150	3.+3	292553	−02
		3.+1	045687	−01
		3.−1	068819	−01
		3.−3	100427	−01
		3 DF	034606	−04
20	140	3.+3	211755	−02
		3.+1	039038	−01
		3.−1	067422	−01
		3.−3	110226	−01
		3 DF	041729	−04
20	130	3.+3	147162	−02
		3.+1	032329	−01
		3.−1	064045	−01
		3.−3	116724	−01
		3 DF	050273	−04
20	120	3.+3	097643	−02
		3.+1	258169	−02
		3.−1	058704	−01
		3.−3	118798	−01
		3 DF	059398	−04
20	110	3.+3	061367	−02
		3.+1	197334	−02
		3.−1	051568	−01
		3.−3	115556	−01
		3 DF	067727	−04

TABLE 3 (cont.).

20	100	3.+3	036127	−02	20	020	3.+3	177277	−09
		3.+1	142866	−02			3.+1	078905	−07
		3.−1	042995	−01			3.−1	128595	−06
		3.−3	106550	−01			3.−3	125334	−05
		3 DF	073295	−04			3 DF	034834	−09
20	090	3.+3	196024	−03	20	010	3.+3	182981	−15
		3.+1	096487	−02			3.+1	169426	−13
		3.−1	033550	−01			3.−1	053552	−11
		3.−3	092018	−01			3.−3	100147	−10
		3 DF	073751	−04			3 DF	034885	−18
20	080	3.+3	095714	−03					
		3.+1	059423	−02	3	20	F	056542	−03
		3.−1	239958	−02					
		3.−3	073089	−01					
		3 DF	067010	−04					
20	070	3.+3	040527	−03	40	180	3.+3	295043	−04
		3.+1	032221	−02			3.+1	295043	−04
		3.−1	152300	−02			3.−1	295043	−04
		3.−3	051888	−01			3.−3	295043	−04
		3 DF	052534	−04			3 DF	055811	−09
20	060	3.+3	140097	−04	40	170	3.+3	216114	−04
		3.+1	145248	−03			3.+1	262894	−04
		3.−1	081351	−02			3.−1	031838	−03
		3.−3	031395	−01			3.−3	038398	−03
		3 DF	032912	−04			3 DF	060305	−09
20	050	3.+3	035568	−04	40	160	3.+3	152302	−04
		3.+1	049221	−03			3.+1	227366	−04
		3.−1	033302	−02			3.−1	033332	−03
		3.−3	148681	−02			3.−3	048080	−03
		3 DF	143114	−05			3 DF	074990	−09
20	040	3.+3	054028	−05	40	150	3.+3	102708	−04
		3.+1	103121	−04			3.+1	189847	−04
		3.−1	086977	−03			3.−1	033661	−03
		3.−3	046521	−02			3.−3	057618	−03
		3 DF	032363	−05			3 DF	099462	−09
20	030	3.+3	309530	−07	40	140	3.+3	066031	−04
		3.+1	085849	−05			3.+1	152464	−04
		3.−1	095355	−04			3.−1	032653	−03
		3.−3	064929	−03			3.−3	065847	−03
		3 DF	190689	−07			3 DF	132557	−09

TABLE 3 (cont.).

40	130	3.+3	040234	−04		40	050	3.+3	072108	−08
		3.+1	117063	−04				3.+1	184969	−07
		3.−1	302419	−04				3.−1	223150	−06
		3.−3	071376	−03				3.−3	179328	−05
		3 DF	170507	−09				3 DF	203870	−11
40	120	3.+3	230352	−05		40	040	3.+3	037370	−09
		3.+1	085182	−04				3.+1	134813	−08
		3.−1	265056	−04				3.−1	208432	−07
		3.−3	072810	−03				3.−3	207178	−06
		3 DF	205584	−09				3 DF	063230	−12
40	110	3.+3	122383	−05		40	030	3.+3	034355	−11
		3.+1	058001	−04				3.+1	182746	−10
		3.−1	217136	−04				3.−1	038168	−08
		3.−3	069119	−03				3.−3	049690	−07
		3 DF	226143	−09				3 DF	110639	−15
40	100	3.+3	059251	−05		40	020	3.+3	047155	−15
		3.+1	036289	−04				3.+1	040716	−13
		3.−1	163358	−04				3.−1	127735	−12
		3.−3	060085	−03				3.−3	243739	−11
		3 DF	219849	−09				3 DF	131126	−21
40	090	3.+3	254520	−06		40	010	3.+3	056473	−26
		3.+1	203140	−05				3.+1	102603	−24
		3.−1	110020	−04				3.−1	063763	−22
		3.−3	046717	−03				3.−3	237418	−21
		3 DF	180938	−09				3 DF	195811	−40
40	080	3.+3	093155	−06		3	40	F	139778	−08
		3.+1	097751	−05						
		3.−1	063848	−04						
		3.−3	031354	−03						
		3 DF	118316	−09						
40	070	3.+3	272599	−07						
		3.+1	037988	−05						
		3.−1	300810	−05						
		3.−3	171757	−04						
		3 DF	055631	−09						
40	060	3.+3	057400	−07						
		3.+1	107581	−06						
		3.−1	104269	−05						
		3.−3	069969	−04						
		3 DF	159056	−10						

Table 4. $I_{4u}(\vartheta, \xi)$, $df_{E4}(\vartheta, \xi)/d\Omega$ and $f_{E4}(\xi)$.

02	180	4 . +4	107360	00		02	120	4 . +4	047084	00
		4 . +2	107360	00				4 . +2	064003	00
		4 . 0	107360	00				4 . 0	076790	00
		4 . -2	107360	00				4 . -2	081892	00
		4 . -4	107360	00				4 . -4	077552	00
		4 DF	044704	-02				4 DF	032875	-02
02	170	4 . +4	101651	00		02	110	4 . +4	035925	00
		4 . +2	104190	00				4 . +2	053507	00
		4 . 0	106438	00				4 . 0	067093	00
		4 . -2	108376	00				4 . -2	071710	00
		4 . -4	109987	00				4 . -4	065162	00
		4 DF	044334	-02				4 DF	292688	-03
02	160	4 . +4	093304	00		02	100	4 . +4	260881	-01
		4 . +2	099023	00				4 . +2	043141	00
		4 . 0	103697	00				4 . 0	056797	00
		4 . -2	107167	00				4 . -2	060757	00
		4 . -4	109307	00				4 . -4	052526	00
		4 DF	043239	-02				4 DF	254742	-03
02	150	4 . +4	082936	00		02	090	4 . +4	178870	-01
		4 . +2	092093	00				4 . +2	033312	00
		4 . 0	099210	00				4 . 0	046285	00
		4 . -2	103753	00				4 . -2	049526	00
		4 . -4	105345	00				4 . -4	040415	00
		4 DF	041465	-02				4 DF	215961	-03
02	140	4 . +4	071273	00		02	080	4 . +4	114498	-01
		4 . +2	083703	00				4 . +2	243931	-01
		4 . 0	093104	00				4 . 0	035979	00
		4 . -2	098250	00				4 . -2	038529	00
		4 . -4	098371	00				4 . -4	294776	-01
		4 DF	039082	-02				4 DF	177304	-03
02	130	4 . +4	059078	00		02	070	4 . +4	067321	-01
		4 . +2	074208	00				4 . +2	166944	-01
		4 . 0	085554	00				4 . 0	263254	-01
		4 . -2	090864	00				4 . -2	282788	-01
		4 . -4	088883	00				4 . -4	201857	-01
		4 DF	036184	-02				4 DF	139670	-03

TABLE 4 (cont.).

02	060	4 .+4	035472	−01		04	180	4 .+4	090829	00
		4 .+2	104454	−01				4 .+2	090829	00
		4 . 0	177697	−01				4 . 0	090829	00
		4 . −2	192447	−01				4 . −2	090829	00
		4 . −4	128016	−01				4 . −4	090829	00
		4 DF	103989	−03				4 DF	031997	−02
02	050	4 .+4	160987	−02		04	170	4 .+4	083077	00
		4 .+2	057649	−01				4 .+2	086616	00
		4 . 0	107137	−01				4 . 0	090018	00
		4 . −2	118143	−01				4 . −2	093256	00
		4 . −4	073682	−01				4 . −4	096307	00
		4 DF	071366	−03				4 DF	031875	−02
02	040	4 .+4	058699	−02		04	160	4 .+4	073632	00
		4 .+2	263521	−02				4 .+2	080838	00
		4 . 0	054535	−01				4 . 0	087606	00
		4 . −2	062405	−01				4 . −2	093746	00
		4 . −4	037307	−01				4 . −4	099069	00
		4 DF	043231	−03				4 DF	031501	−02
02	030	4 .+4	149669	−03		04	150	4 .+4	063155	00
		4 .+2	087965	−02				4 .+2	073769	00
		4 . 0	209637	−02				4 . 0	083663	00
		4 . −2	258655	−02				4 . −2	092222	00
		4 . −4	158395	−02				4 . −4	098855	00
		4 DF	214045	−04				4 DF	308596	−03
02	020	4 .+4	189397	−04		04	140	4 .+4	052317	00
		4 .+2	157118	−03				4 .+2	065725	00
		4 . 0	046300	−02				4 . 0	078303	00
		4 . −2	067265	−02				4 . −2	088698	00
		4 . −4	055008	−02				4 . −4	095629	00
		4 DF	079996	−04				4 DF	299223	−03
02	010	4 .+4	032039	−05		04	130	4 .+4	041744	00
		4 .+2	045564	−04				4 .+2	057050	00
		4 . 0	205367	−04				4 . 0	071688	00
		4 . −2	045943	−03				4 . −2	083275	00
		4 . −4	283788	−03				4 . −4	089585	00
		4 DF	150660	−04				4 DF	286614	−03
4	02	F	272938	−02						

TABLE 4 (cont.).

04	120	4 .+4	031964	00		04	060	4 .+4	170678	−02
		4 .+2	048100	00				4 .+2	062950	−01
		4 . 0	064026	00				4 . 0	134901	−01
		4 .−2	076151	00				4 .−2	189798	−01
		4 .−4	081134	00				4 .−4	175792	−01
		4 DF	270527	−03				4 DF	107584	−03
04	110	4 .+4	233716	−01		04	050	4 .+4	069816	−02
		4 .+2	039229	00				4 .+2	032198	−01
		4 . 0	055577	00				4 . 0	077680	−01
		4 .−2	067615	00				4 .−2	115726	−01
		4 .−4	070867	00				4 .−4	106961	−01
		4 DF	250823	−03				4 DF	075926	−03
04	100	4 .+4	162090	−01		04	040	4 .+4	220440	−03
		4 .+2	307723	−01				4 .+2	131690	−02
		4 . 0	046646	00				4 . 0	036700	−01
		4 .−2	058042	00				4 .−2	059544	−01
		4 .−4	059499	00				4 .−4	056925	−01
		4 DF	227532	−03				4 DF	046991	−03
04	090	4 .+4	105641	−01		04	030	4 .+4	044939	−03
		4 .+2	230310	−01				4 .+2	036609	−02
		4 . 0	037581	00				4 . 0	123198	−02
		4 .−2	047879	00				4 .−2	229323	−02
		4 .−4	047800	00				4 .−4	243920	−02
		4 DF	200900	−03				4 DF	231944	−04
04	080	4 .+4	063860	−01		04	020	4 .+4	037303	−04
		4 .+2	162589	−01				4 .+2	045356	−03
		4 . 0	287664	−01				4 . 0	201723	−03
		4 .−2	037628	00				4 .−2	048012	−02
		4 .−4	036511	00				4 .−4	067130	−02
		4 DF	171435	−03				4 DF	070507	−04
04	070	4 .+4	035124	−01		04.	010	4 .+4	189553	−07
		4 .+2	106445	−01				4 .+2	043255	−05
		4 . 0	206045	−01				4 . 0	032637	−04
		4 .−2	278212	−01				4 .−2	132920	−04
		4 .−4	262775	−01				4 .−4	049843	−03
		4 DF	139944	−03				4 DF	047621	−05
						4	04	F	233022	−02

TABLE 4 (cont.).

06	180	4.+4	071211	00		06	120	4.+4	206657	−01
		4.+2	071211	00				4.+2	033901	00
		4. 0	071211	00				4. 0	049271	00
		4.−2	071211	00				4.−2	064261	00
		4.−4	071211	00				4.−4	075613	00
		4 DF	196681	−03				4 DF	196258	−03
06	170	4.+4	063224	00		06	110	4.+4	145480	−01
		4.+2	066887	00				4.+2	270137	−01
		4. 0	070543	00				4. 0	042415	00
		4.−2	074172	00				4.−2	057536	00
		4.−4	077750	00				4.−4	067957	00
		4 DF	197082	−03				4 DF	189934	−03
06	160	4.+4	054360	00		06	100	4.+4	096827	−01
		4.+2	061435	00				4.+2	206436	−01
		4. 0	068561	00				4. 0	035211	00
		4.−2	075582	00				4.−2	049708	00
		4.−4	082330	00				4.−4	058699	00
		4 DF	198126	−03				4 DF	179622	−03
06	150	4.+4	045193	00		06	090	4.+4	060298	−01
		4.+2	055122	00				4.+2	149928	−01
		4. 0	065323	00				4. 0	279612	−01
		4.−2	075313	00				4.−2	041160	00
		4.−4	084550	00				4.−4	048491	00
		4 DF	199350	−03				4 DF	164868	−03
06	140	4.+4	036248	00		06	080	4.+4	034615	−01
		4.+2	048234	00				4.+2	102141	−01
		4. 0	060928	00				4. 0	209912	−01
		4.−2	073306	00				4.−2	032348	00
		4.−4	084169	00				4.−4	038045	00
		4 DF	200045	−03				4 DF	145592	−03
06	130	4.+4	279648	−01		06	070	4.+4	179213	−02
		4.+2	041064	00				4.+2	064010	−01
		4. 0	055517	00				4. 0	146398	−01
		4.−2	069585	00				4.−2	237815	−01
		4.−4	081137	00				4.−4	280540	−01
		4 DF	199330	−03				4 DF	122192	−03

TABLE 4 (cont.).

06	060	4.+4	080875	-02		08	180	4.+4	052800	00
		4.+2	035786	-01				4.+2	052800	00
		4. 0	092292	-01				4. 0	052800	00
		4.-2	159852	-01				4.-2	052800	00
		4.-4	191256	-01				4.-4	052800	00
		4 DF	095632	-03				4 DF	108130	-03
06	050	4.+4	300641	-03		08	170	4.+4	045682	00
		4.+2	169562	-02				4.+2	048944	00
		4. 0	050239	-01				4. 0	052280	00
		4.-2	094536	-01				4.-2	055677	00
		4.-4	117216	-01				4.-4	059120	00
		4 DF	067547	-03				4 DF	109061	-03
06	040	4.+4	083025	-03		08	160	4.+4	038245	00
		4.+2	061953	-02				4.+2	044324	00
		4. 0	217026	-02				4. 0	050735	00
		4.-2	045795	-01				4.-2	057385	00
		4.-4	061206	-01				4.-4	064160	00
		4 DF	040374	-03				4 DF	111707	-03
06	030	4.+4	137080	-04		08	150	4.+4	309312	-01
		4.+2	142931	-03				4.+2	039170	00
		4. 0	062168	-02				4. 0	048215	00
		4.-2	155666	-02				4.-2	057780	00
		4.-4	241135	-02				4.-4	067491	00
		4 DF	175127	-04				4 DF	115638	-03
06	020	4.+4	076010	-05		08	140	4.+4	241070	-01
		4.+2	121933	-04				4.+2	033719	00
		4. 0	072606	-03				4. 0	044801	00
		4.-2	241652	-03				4.-2	056769	00
		4.-4	050214	-02				4.-4	068779	00
		4 DF	033629	-04				4 DF	120171	-03
06	010	4.+4	119578	-08		08	130	4.+4	180458	-01
		4.+2	037601	-06				4.+2	282025	-01
		4. 0	039834	-05				4. 0	040610	00
		4.-2	236381	-05				4.-2	054325	00
		4.-4	102927	-04				4.-4	067829	00
		4 DF	200736	-07				4 DF	124422	-03
4	06	F	175975	-02						

TABLE 4 (cont.).

08	120	4.+4	129164	−01		08	060	4.+4	037986	−02
		4.+2	228332	−01				4.+2	195938	−02
		4. 0	035790	00				4. 0	058927	−01
		4.−2	050497	00				4.−2	120894	−01
		4.−4	064617	00				4.−4	176877	−01
		4 DF	127378	−03				4 DF	070685	−03
08	110	4.+4	087863	−01		08	050	4.+4	129037	−03
		4.+2	178034	−01				4.+2	086059	−02
		4. 0	305286	−01				4. 0	301799	−02
		4.−2	045422	00				4.−2	068502	−01
		4.−4	059304	00				4.−4	106451	−01
		4 DF	127983	−03				4 DF	048291	−03
08	100	4.+4	056333	−01		08	040	4.+4	031366	−03
		4.+2	132736	−01				4.+2	280979	−03
		4. 0	250400	−01				4. 0	118416	−02
		4.−2	039325	00				4.−2	307382	−02
		4.−4	052233	00				4.−4	052801	−01
		4 DF	125248	−03				4 DF	263869	−04
08	090	4.+4	033652	−01		08	030	4.+4	042261	−04
		4.+2	093677	−01				4.+2	053772	−03
		4. 0	195696	−01				4. 0	286650	−03
		4.−2	032519	00				4.−2	090196	−02
		4.−4	043904	00				4.−4	183848	−02
		4 DF	118368	−03				4 DF	091908	−04
08	080	4.+4	184233	−02		08	020	4.+4	158029	−06
		4.+2	061666	−01				4.+2	031528	−04
		4. 0	143811	−01				4. 0	235225	−04
		4.−2	254013	−01				4.−2	100637	−03
		4.−4	034929	00				4.−4	279284	−03
		4 DF	106865	−03				4 DF	098066	−05
08	070	4.+4	090187	−02		08	010	4.+4	078009	−09
		4.+2	037035	−01				4.+2	031284	−07
		4. 0	097409	−01				4. 0	042681	−06
		4.−2	184284	−01				4.−2	033286	−05
		4.−4	259729	−01				4.−4	181632	−05
		4 DF	090744	−03				4 DF	061816	−08
						4	08	F	117557	−02

TABLE 4 (cont.).

10	180	4.+4	037535	00
		4.+2	037535	00
		4. 0	037535	00
		4.-2	037535	00
		4.-4	037535	00
		4 DF	054645	-03
10	170	4.+4	031742	00
		4.+2	034390	00
		4. 0	037147	00
		4.-2	040006	00
		4.-4	042962	00
		4 DF	055494	-03
10	160	4.+4	259528	-01
		4.+2	307515	-01
		4. 0	035993	00
		4.-2	041637	00
		4.-4	047624	00
		4 DF	057942	-03
10	150	4.+4	204772	-01
		4.+2	268053	-01
		4. 0	034114	00
		4.-2	042288	00
		4.-4	051129	00
		4 DF	061699	-03
10	140	4.+4	155516	-01
		4.+2	227330	-01
		4. 0	031573	00
		4.-2	041858	00
		4.-4	053131	00
		4 DF	066344	-03
10	130	4.+4	113277	-01
		4.+2	187046	-01
		4. 0	284644	-01
		4.-2	040297	00
		4.-4	053374	00
		4 DF	071075	-03
10	120	4.+4	078753	-01
		4.+2	148713	-01
		4. 0	249047	-01
		4.-2	037618	00
		4.-4	051729	00
		4 DF	075264	-03
10	110	4.+4	051915	-01
		4.+2	113612	-01
		4. 0	210402	-01
		4.-2	033908	00
		4.-4	048221	00
		4 DF	077980	-03
10	100	4.+4	032159	-01
		4.+2	082750	-01
		4. 0	170412	-01
		4.-2	293342	-01
		4.-4	043043	00
		4 DF	078324	-03
10	090	4.+4	184854	-02
		4.+2	056821	-01
		4. 0	130981	-01
		4.-2	241459	-01
		4.-4	036552	00
		4 DF	075480	-03
10	080	4.+4	096821	-02
		4.+2	036187	-01
		4. 0	094129	-01
		4.-2	186731	-01
		4.-4	292443	-01
		4 DF	068861	-03
10	070	4.+4	044969	-02
		4.+2	208521	-02
		4. 0	061841	-01
		4.-2	133079	-01
		4.-4	217151	-01
		4 DF	058311	-03

TABLE 4 (cont.).

10	060	4.+4	177428	−03		15	180	4.+4	140552	−01
		4.+2	104507	−02				4.+2	140552	−01
		4. 0	035834	−01				4. 0	140552	−01
		4.−2	084733	−01				4.−2	140552	−01
		4.−4	146006	−01				4.−4	140552	−01
		4 DF	044366	−03				4 DF	076619	−04
10	050	4.+4	055297	−03		15	170	4.+4	113342	−01
		4.+2	042589	−02				4.+2	125667	−01
		4. 0	172263	−02				4. 0	138918	−01
		4.−2	045686	−01				4.−2	153122	−01
		4.−4	085093	−01				4.−4	168304	−01
		4 DF	285805	−04				4 DF	079168	−04
10	040	4.+4	118839	−04		15	160	4.+4	088149	−01
		4.+2	124343	−03				4.+2	109380	−01
		4. 0	061185	−02				4. 0	134078	−01
		4.−2	188257	−02				4.−2	162466	−01
		4.−4	039434	−01				4.−4	194712	−01
		4 DF	137778	−04				4 DF	086646	−04
10	030	4.+4	131308	−05		15	150	4.+4	065983	−01
		4.+2	197461	−04				4.+2	092555	−01
		4. 0	124563	−03				4. 0	126219	−01
		4.−2	047156	−02				4.−2	167734	−01
		4.−4	119055	−02				4.−4	217601	−01
		4 DF	036696	−04				4 DF	098521	−04
10	020	4.+4	033303	−06		15	140	4.+4	047397	−01
		4.+2	079546	−05				4.+2	075967	−01
		4. 0	071309	−04				4. 0	115656	−01
		4.−2	037267	−03				4.−2	168219	−01
		4.−4	129474	−03				4.−4	234692	−01
		4 DF	205094	−06				4 DF	113807	−04
10	010	4.+4	051961	−10		15	130	4.+4	032537	−01
		4.+2	253526	−09				4.+2	060275	−01
		4. 0	042317	−07				4. 0	102831	−01
		4.−2	040887	−06				4.−2	163447	−01
		4.−4	273850	−06				4.−4	243860	−01
		4 DF	139609	−10				4 DF	130948	−04
4	10	F	070503	−02						

TABLE 4 (cont.).

15	120	4 .+4	212253	−02		15	060	4 .+4	260935	−04
		4 .+2	046009	−01				4 .+2	201511	−03
		4 . 0	088315	−01				4 . 0	089836	−02
		4 . −2	153263	−01				4 . −2	280346	−02
		4 . −4	243425	−01				4 . −4	065745	−01
		4 DF	147719	−04				4 DF	081711	−04
15	110	4 .+4	130558	−02		15	050	4 .+4	066342	−04
		4 .+2	033556	−01				4 .+2	068356	−03
		4 . 0	072802	−01				4 . 0	036690	−02
		4 . −2	137931	−01				4 . −2	131496	−02
		4 . −4	232456	−01				4 . −4	034296	−01
		4 DF	161220	−04				4 DF	042628	−04
15	100	4 .+4	074914	−02		15	040	4 .+4	106097	−05
		4 .+2	231600	−02				4 .+2	151396	−04
		4 . 0	057087	−01				4 . 0	100948	−03
		4 . −2	118208	−01				4 . −2	042987	−02
		4 . −4	211048	−01				4 . −4	129571	−02
		4 DF	168042	−04				4 DF	138718	−05
15	090	4 .+4	039493	−02		15	030	4 .+4	072350	−06
		4 .+2	149176	−02				4 .+2	151158	−05
		4 . 0	042036	−01				4 . 0	132071	−04
		4 . −2	095387	−01				4 . −2	070871	−03
		4 . −4	180518	−01				4 . −4	263756	−03
		4 DF	164754	−04				4 DF	171414	−06
15	080	4 .+4	187091	−03		15	020	4 .+4	070527	−08
		4 .+2	087853	−02				4 .+2	238479	−07
		4 . 0	285217	−02				4 . 0	303201	−06
		4 . −2	071271	−01				4 . −2	229884	−05
		4 . −4	143475	−01				4 . −4	119802	−04
		4 DF	148808	−04				4 DF	170985	−08
15	070	4 .+4	077006	−03		15	010	4 .+4	062815	−13
		4 .+2	045844	−02				4 .+2	044354	−11
		4 . 0	173206	−02				4 . 0	107814	−10
		4 . −2	048053	−01				4 . −2	154289	−09
		4 . −4	103693	−01				4 . −4	153699	−08
		4 DF	119921	−04				4 DF	043670	−14
						4	15	F	137004	−03

TABLE 4 (cont.).

20	180	4 .+4	046509	−01		20	120	4 .+4	053364	−02
		4 .+2	046509	−01				4 .+2	129383	−02
		4 . 0	046509	−01				4 . 0	276947	−02
		4 .−2	046509	−01				4 .−2	053600	−01
		4 .−4	046509	−01				4 .−4	095151	−01
		4 DF	083898	−05				4 DF	211429	−05
20	170	4 .+4	036092	−01		20	110	4 .+4	309141	−03
		4 .+2	040768	−01				4 .+2	090525	−02
		4 . 0	045911	−01				4 . 0	222772	−02
		4 .−2	051553	−01				4 .−2	047896	−01
		4 .−4	057724	−01				4 .−4	091928	−01
		4 DF	088163	−05				4 DF	237267	−05
20	160	4 .+4	269427	−02		20	100	4 .+4	165875	−03
		4 .+2	034700	−01				4 .+2	059493	−02
		4 . 0	044142	−01				4 . 0	169111	−02
		4 .−2	055504	−01				4 .−2	040424	−01
		4 .−4	069032	−01				4 .−4	083757	−01
		4 DF	100820	−05				4 DF	250045	−05
20	150	4 .+4	193050	−02		20	090	4 .+4	080985	−03
		4 .+2	286372	−02				4 .+2	036120	−02
		4 . 0	041279	−01				4 . 0	119268	−02
		4 .−2	057977	−01				4 .−2	031772	−01
		4 .−4	079510	−01				4 .−4	071115	−01
		4 DF	121344	−05				4 DF	242462	−05
20	140	4 .+4	132338	−02		20	080	4 .+4	035048	−03
		4 .+2	228550	−02				4 .+2	197659	−03
		4 . 0	037453	−01				4 . 0	076357	−02
		4 .−2	058628	−01				4 .−2	227746	−02
		4 .−4	088083	−01				4 .−4	055263	−01
		4 DF	148499	−05				4 DF	210149	−05
20	130	4 .+4	086392	−02		20	070	4 .+4	129165	−04
		4 .+2	175705	−02				4 .+2	093847	−03
		4 . 0	032847	−01				4 . 0	042819	−02
		4 .−2	057206	−01				4 .−2	144122	−02
		4 .−4	093634	−01				4 .−4	038203	−01
		4 DF	179875	−05				4 DF	155612	−05

TABLE 4 (cont.).

20	060	4.+4	037988	−04	40	180	4.+4	303399	−04
		4.+2	036342	−03			4.+2	303399	−04
		4. 0	198474	−03			4. 0	303399	−04
		4.−2	076352	−02			4.−2	303399	−04
		4.−4	224092	−02			4.−4	303399	−04
		4 DF	091220	−05			4 DF	035702	−09
20	050	4.+4	079651	−05	40	170	4.+4	211188	−04
		4.+2	103050	−04			4.+2	251338	−04
		4. 0	068701	−03			4. 0	298127	−04
		4.−2	308332	−03			4.−2	035250	−03
		4.−4	102473	−02			4.−4	041552	−03
		4 DF	036799	−05			4 DF	039850	−09
20	040	4.+4	095839	−06	40	160	4.+4	139991	−04
		4.+2	173795	−05			4.+2	200293	−04
		4. 0	145900	−04			4. 0	282638	−04
		4.−2	079001	−03			4.−2	039381	−03
		4.−4	308584	−03			4.−4	054233	−03
		4 DF	076651	−06			4 DF	052582	−09
20	030	4.+4	040784	−07	40	150	4.+4	088146	−04
		4.+2	109432	−06			4.+2	153227	−04
		4. 0	122022	−05			4. 0	257913	−04
		4.−2	084497	−04			4.−2	042203	−03
		4.−4	041357	−03			4.−4	067342	−03
		4 DF	041407	−07			4 D	074398	−09
20	020	4.+4	154509	−10	40	140	4.+4	052495	−04
		4.+2	067749	−08			4.+2	112092	−04
		4. 0	111460	−07			4. 0	225587	−04
		4.−2	110568	−06			4.−2	043206	−03
		4.−4	076633	−05			4.−4	079290	−03
		4 DF	069320	−10			4 D	104932	−09
20	010	4.+4	079460	−16	40	130	4.+4	293803	−05
		4.+2	073528	−14			4.+2	077934	−04
		4. 0	234677	−13			4. 0	187926	−04
		4.−2	044463	−11			4.−2	041997	−03
		4.−4	059043	−10			4.−4	088066	−03
		4 DF	064283	−19			4 DF	141289	−09
4	20	F	186996	−04					

TABLE 4 (cont.).

40	120	4 .+4	153089	−05	40	060	4 .+4	166222	−08
		4 .+2	051033	−04			4 .+2	284338	−07
		4 . 0	147738	−04			4 . 0	265304	−06
		4 . −2	038421	−03			4 . −2	174506	−05
		4 . −4	091565	−03			4 . −4	089123	−04
		4 DF	176419	−09			4 DF	137797	−10
40	110	4 .+4	073280	−05	40	050	4 .+4	169474	−09
		4 .+2	310631	−05			4 .+2	040296	−07
		4 . 0	108180	−04			4 . 0	047289	−06
		4 . −2	032675	−03			4 . −2	037540	−05
		4 . −4	088143	−03			4 . −4	225470	−05
		4 DF	198928	−09			4 DF	171724	−11
40	100	4 .+4	031611	−05	40	040	4 .+4	068538	−10
		4 .+2	172453	−05			4 .+2	233354	−09
		4 . 0	072419	−04			4 . 0	035454	−07
		4 . −2	253821	−04			4 . −2	035058	−06
		4 . −4	077316	−03			4 . −4	256221	−06
		4 DF	196321	−09			4 DF	051429	−12
40	090	4 .+4	119473	−06	40	030	4 .+4	046235	−12
		4 .+2	084930	−05			4 .+2	236637	−11
		4 . 0	043137	−04			4 . 0	049017	−09
		4 . −2	175559	−04			4 . −2	063849	−08
		4 . −4	060368	−03			4 . −4	060273	−07
		4 DF	162491	−09			4 DF	086413	−15
40	080	4 .+4	037921	−06	40	020	4 .+4	041591	−16
		4 .+2	035586	−05			4 .+2	035205	−14
		4 . 0	219595	−05			4 . 0	110329	−13
		4 . −2	104070	−04			4 . −2	211414	−12
		4 . −4	040498	−03			4 . −4	289426	−11
		4 DF	105891	−09			4 DF	098003	−21
40	070	4 .+4	094594	−07	40	010	4 .+4	246533	−28
		4 .+2	118867	−06			4 .+2	044578	−25
		4 . 0	089716	−05			4 . 0	277783	−24
		4 . −2	049816	−04			4 . −2	103923	−22
		4 . −4	220773	−04			4 . −4	276001	−21
		4 DF	049189	−09			4 DF	140124	−40
					4	40	F	120367	−08

Table 5. $df_{M1}(\vartheta, \xi)/d\Omega$ and $f_{M1}(\xi)$.

01	180	1 DF	000000	-27		02	180	1 DF	000000	-27
01	170	1 DF	106260	-02		02	170	1 DF	083078	-02
01	160	1 DF	043919	-01		02	160	1 DF	034285	-01
01	150	1 DF	104407	-01		02	150	1 DF	081286	-01
01	140	1 DF	200642	-01		02	140	1 DF	155601	-01
01	130	1 DF	034703	00		02	130	1 DF	267700	-01
01	120	1 DF	056721	00		02	120	1 DF	043445	00
01	110	1 DF	090000	00		02	110	1 DF	068304	00
01	100	1 DF	141058	00		02	100	1 DF	105781	00
01	090	1 DF	221172	00		02	090	1 DF	163289	00
01	080	1 DF	350625	00		02	080	1 DF	253560	00
01	070	1 DF	056771	01		02	070	1 DF	399202	00
01	060	1 DF	094921	01		02	060	1 DF	064178	01
01	050	1 DF	166093	01		02	050	1 DF	106018	01
01	040	1 DF	309626	01		02	040	1 DF	180545	01
01	030	1 DF	063040	02		02	030	1 DF	313784	01
01	020	1 DF	144206	02		02	020	1 DF	051403	02
01	010	1 DF	334450	02		02	010	1 DF	410923	01
1	01	F	222970	02		1	02	F	082765	02

TABLE 5 (cont.).

03	180	1	DF	000000	−27		04	180	1	DF	000000	−27
03	170	1	DF	060442	−02		04	17.0	1	DF	041920	−02
03	160	1	DF	249003	−02		04	160	1	DF	172387	−02
03	150	1	DF	058860	−01		04	150	1	DF	040623	−01
03	140	1	DF	112180	−01		04	140	1	DF	077075	−01
03	130	1	DF	191846	−01		04	130	1	DF	130997	−01
03	120	1	DF	308898	−01		04	120	1	DF	209201	−01
03	110	1	DF	048065	00		04	110	1	DF	032206	00
03	100	1	DF	073448	00		04	100	1	DF	048534	00
03	090	1	DF	111412	00		04	090	1	DF	072294	00
03	080	1	DF	169049	00		04	080	1	DF	107088	00
03	070	1	DF	257962	00		04	070	1	DF	158188	00
03	060	1	DF	397040	00		04	060	1	DF	232701	00
03	050	1	DF	061551	01		04	050	1	DF	337749	00
03	040	1	DF	094939	01		04	040	1	DF	470261	00
03	030	1	DF	139036	01		04	030	1	DF	057740	01
03	020	1	DF	159669	01		04	020	1	DF	461165	00
03	010	1	DF	422415	00		04	010	1	DF	039816	00
1	03	F		371930	01		1	04	F		180858	01

TABLE 5 (cont.).

05	180	1 DF	000000	−27	06	180	1 DF	000000	−27
05	170	1 DF	280887	−03	06	170	1 DF	183350	−03
05	160	1 DF	115300	−02	06	160	1 DF	075128	−02
05	150	1 DF	270872	−02	06	150	1 DF	175956	−02
05	140	1 DF	051159	−01	06	140	1 DF	033082	−01
05	130	1 DF	086410	−01	06	130	1 DF	055533	−01
05	120	1 DF	136860	−01	06	120	1 DF	087233	−01
05	110	1 DF	208429	−01	06	110	1 DF	131426	−01
05	100	1 DF	309711	−01	06	100	1 DF	192560	−01
05	090	1 DF	045291	00	06	090	1 DF	276449	−01
05	080	1 DF	065472	00	06	080	1 DF	038995	00
05	070	1 DF	093576	00	06	070	1 DF	053915	00
05	060	1 DF	131468	00	06	060	1 DF	072322	00
05	050	1 DF	178463	00	06	050	1 DF	091775	00
05	040	1 DF	223957	00	06	040	1 DF	103724	00
05	030	1 DF	230018	00	06	030	1 DF	089005	00
05	020	1 DF	127299	00	06	020	1 DF	034067	00
05	010	1 DF	035644	−01	06	010	1 DF	308359	−03
1	05	F	090523	01	1	06	F	460313	00

TABLE 5 (cont.).

07	180	1	DF	000000	−27	08	180	1	DF	000000	−27
07	170	1	DF	117243	−03	08	170	1	DF	073733	−03
07	160	1	DF	047956	−02	08	160	1	DF	301074	−03
07	150	1	DF	111978	−02	08	150	1	DF	070090	−02
07	140	1	DF	209601	−02	08	140	1	DF	130620	−02
07	130	1	DF	034968	−01	08	130	1	DF	216602	−02
07	120	1	DF	054483	−01	08	120	1	DF	033476	−01
07	110	1	DF	081209	−01	08	110	1	DF	049370	−01
07	100	1	DF	117328	−01	08	100	1	DF	070344	−01
07	090	1	DF	165371	−01	08	090	1	DF	097348	−01
07	080	1	DF	227632	−01	08	080	1	DF	130770	−01
07	070	1	DF	304448	−01	08	070	1	DF	169197	−01
07	060	1	DF	038987	00	08	060	1	DF	206856	−01
07	050	1	DF	046239	00	08	050	1	DF	229276	−01
07	040	1	DF	047049	00	08	040	1	DF	209991	−01
07	030	1	DF	033709	00	08	030	1	DF	125577	−01
07	020	1	DF	089140	−01	08	020	1	DF	229276	−02
07	010	1	DF	260324	−04	08	010	1	DF	215790	−05
1	07		F	236791	00	1	08		F	122911	00

TABLE 5 (cont.).

09	180	1 DF	000000	−27		10	180	1 DF	000000	−27
09	170	1 DF	045736	−03		10	170	1 DF	280426	−04
09	160	1 DF	186436	−03		10	160	1 DF	114120	−03
09	150	1 DF	043275	−02		10	150	1 DF	264133	−03
09	140	1 DF	080299	−02		10	140	1 DF	048802	−02
09	130	1 DF	132363	−02		10	130	1 DF	079972	−02
09	120	1 DF	202944	−02		10	120	1 DF	121653	−02
09	110	1 DF	296171	−02		10	110	1 DF	175700	−02
09	100	1 DF	041620	−01		10	100	1 DF	243554	−02
09	090	1 DF	056559	−01		10	090	1 DF	032504	−01
09	080	1 DF	074154	−01		10	080	1 DF	041598	−01
09	070	1 DF	092824	−01		10	070	1 DF	050383	−01
09	060	1 DF	108348	−01		10	060	1 DF	056153	−01
09	050	1 DF	112234	−01		10	050	1 DF	054364	−01
09	040	1 DF	092522	−01		10	040	1 DF	040337	−01
09	030	1 DF	046173	−01		10	030	1 DF	167975	−02
09	020	1 DF	058182	−02		10	020	1 DF	146050	−03
09	010	1 DF	176349	−06		10	010	1 DF	142489	−07
1	09	F	064248	00		1	10	F	033766	00

TABLE 5 (cont.).

12	180	1 DF	000000	-27		14	180	1 DF	000000	-27
12	170	1 DF	102478	-04		14	170	1 DF	036340	-04
12	160	1 DF	041568	-03		14	160	1 DF	146946	-04
12	150	1 DF	095671	-03		14	150	1 DF	033636	-03
12	140	1 DF	175300	-03		14	140	1 DF	061136	-03
12	130	1 DF	283969	-03		14	130	1 DF	097928	-03
12	120	1 DF	042533	-02		14	120	1 DF	144478	-03
12	110	1 DF	060184	-02		14	110	1 DF	200370	-03
12	100	1 DF	081203	-02		14	100	1 DF	263257	-03
12	090	1 DF	104562	-02		14	090	1 DF	032721	-02
12	080	1 DF	127547	-02		14	080	1 DF	038062	-02
12	070	1 DF	144682	-02		14	070	1 DF	040454	-02
12	060	1 DF	147056	-02		14	060	1 DF	037514	-02
12	050	1 DF	124390	-02		14	050	1 DF	277347	-03
12	040	1 DF	074779	-02		14	040	1 DF	135122	-03
12	030	1 DF	216808	-03		14	030	1 DF	272777	-04
12	020	1 DF	089718	-04		14	020	1 DF	053711	-05
12	010	1 DF	090607	-09		14	010	1 DF	056111	-11
1	12	F	094358	-01		1	14	F	266399	-02

TABLE 5 (cont.).

16	180	1 DF	000000	−27		18	180	1 DF	000000	−27
16	170	1 DF	125878	−05		18	170	1 DF	042787	−05
16	160	1 DF	050745	−04		18	160	1 DF	171978	−05
16	150	1 DF	115544	−04		18	150	1 DF	038957	−04
16	140	1 DF	208363	−04		18	140	1 DF	069716	−04
16	130	1 DF	033012	−03		18	130	1 DF	109279	−04
16	120	1 DF	047988	−03		18	120	1 DF	156567	−04
16	110	1 DF	065254	−03		18	110	1 DF	208807	−04
16	100	1 DF	083518	−03		18	100	1 DF	260438	−04
16	090	1 DF	100247	−03		18	090	1 DF	301990	−04
16	080	1 DF	111245	−03		18	080	1 DF	031982	−03
16	070	1 DF	110831	−03		18	070	1 DF	298792	−04
16	060	1 DF	093805	−03		18	060	1 DF	230902	−04
16	050	1 DF	060636	−03		18	050	1 DF	130541	−04
16	040	1 DF	239476	−04		18	040	1 DF	041804	−04
16	030	1 DF	033666	−04		18	030	1 DF	040935	−05
16	020	1 DF	031543	−06		18	020	1 DF	182500	−08
16	010	1 DF	034075	−13		18	010	1 DF	203828	−16
1	16	F	075696	−02		1	18	F	215998	−03

TABLE 5 (cont.).

20	180	1 DF	000000	−27		40	180	1 DF	000000	−27
20	170	1 DF	143199	−06		40	170	1 DF	154657	−11
20	160	1 DF	057391	−05		40	160	1 DF	060414	−10
20	150	1 DF	129357	−05		40	150	1 DF	130177	−10
20	140	1 DF	229764	−05		40	140	1 DF	216031	−10
20	130	1 DF	035639	−04		40	130	1 DF	304317	−10
20	120	1 DF	050338	−04		40	120	1 DF	037646	−09
20	110	1 DF	065864	−04		40	110	1 DF	041144	−09
20	100	1 DF	080081	−04		40	100	1 DF	039221	−09
20	090	1 DF	089734	−04		40	090	1 DF	031601	−09
20	080	1 DF	090729	−04		40	080	1 DF	203488	−10
20	070	1 DF	079509	−04		40	070	1 DF	095224	−10
20	060	1 DF	056119	−04		40	060	1 DF	274716	−11
20	050	1 DF	277573	−05		40	050	1 DF	036084	−11
20	040	1 DF	072095	−05		40	040	1 DF	116550	−13
20	030	1 DF	049180	−06		40	030	1 DF	215673	−16
20	020	1 DF	104341	−09		40	020	1 DF	273796	−22
20	010	1 DF	120473	−18		40	010	1 DF	044078	−40
1	20	F	061814	−03		1	40	F	240355	−09

Table 6. $df_{M2}(\vartheta, \xi)/d\Omega$ and $f_{M2}(\xi)$.

02	180	2 DF	000000	−27		04	180	2 DF	000000	−27
02	170	2 DF	042308	−03		04	170	2 DF	266256	−04
02	160	2 DF	172372	−03		04	160	2 DF	108455	−03
02	150	2 DF	039991	−02		04	150	2 DF	251510	−03
02	140	2 DF	074225	−02		04	140	2 DF	046638	−02
02	130	2 DF	122602	−02		04	130	2 DF	076912	−02
02	120	2 DF	189007	−02		04	120	2 DF	118243	−02
02	110	2 DF	278950	−02		04	110	2 DF	173727	−02
02	100	2 DF	040017	−01		04	100	2 DF	247450	−02
02	090	2 DF	056348	−01		04	090	2 DF	034457	−01
02	080	2 DF	078383	−01		04	080	2 DF	047113	−01
02	070	2 DF	108157	−01		04	070	2 DF	063291	−01
02	060	2 DF	148321	−01		04	060	2 DF	083185	−01
02	050	2 DF	201904	−01		04	050	2 DF	105591	−01
02	040	2 DF	270735	−01		04	040	2 DF	125253	−01
02	030	2 DF	034824	00		04	030	2 DF	126858	−01
02	020	2 DF	038710	00		04	020	2 DF	080340	−01
02	010	2 DF	186133	−01		04	010	2 DF	052549	−02
2	02	F	123315	00		2	04	F	057738	00

TABLE 6 (cont.).

06	180	2	DF	000000	−27	08	180	2	DF	000000	−27
06	170	2	DF	142492	−04	08	170	2	DF	068513	−04
06	160	2	DF	058032	−03	08	160	2	DF	278989	−04
06	150	2	DF	134516	−03	08	150	2	DF	064637	−03
06	140	2	DF	249181	−03	08	140	2	DF	119596	−03
06	130	2	DF	041008	−02	08	130	2	DF	196348	−03
06	120	2	DF	062814	−02	08	120	2	DF	299419	−03
06	110	2	DF	091719	−02	08	110	2	DF	043391	−02
06	100	2	DF	129344	−02	08	100	2	DF	060452	−02
06	090	2	DF	177316	−02	08	090	2	DF	081321	−02
06	080	2	DF	236653	−02	08	080	2	DF	105440	−02
06	070	2	DF	306279	−02	08	070	2	DF	130582	−02
06	060	2	DF	037976	−01	08	060	2	DF	151303	−02
06	050	2	DF	043885	−01	08	050	2	DF	157089	−02
06	040	2	DF	044376	−01	08	040	2	DF	132924	−02
06	030	2	DF	033359	−01	08	030	2	DF	072262	−02
06	020	2	DF	109145	−02	08	020	2	DF	117712	−03
06	010	2	DF	082161	−04	08	010	2	DF	096807	−06
2	06	F		239060	−01	2	08	F		091953	−01

TABLE 6 (cont.).

10	180	2 DF	000000	−27		15	180	2 DF	000000	−27
10	170	2 DF	305357	−05		15	170	2 DF	032481	−05
10	160	2 DF	124326	−04		15	160	2 DF	132205	−05
10	150	2 DF	287902	−04		15	150	2 DF	305712	−05
10	140	2 DF	053199	−03		15	140	2 DF	056273	−04
10	130	2 DF	087099	−03		15	130	2 DF	091384	−04
10	120	2 DF	132146	−03		15	120	2 DF	136593	−04
10	110	2 DF	189862	−03		15	110	2 DF	191408	−04
10	100	2 DF	260891	−03		15	100	2 DF	252846	−04
10	090	2 DF	034356	−02		15	090	2 DF	031359	−03
10	080	2 DF	043134	−02		15	080	2 DF	036010	−03
10	070	2 DF	050891	−02		15	070	2 DF	037224	−03
10	060	2 DF	054783	−02		15	060	2 DF	032880	−03
10	050	2 DF	050712	−02		15	050	2 DF	224609	−04
10	040	2 DF	035553	−02		15	040	2 DF	096348	−04
10	030	2 DF	137960	−03		15	030	2 DF	156840	−05
10	020	2 DF	110003	−04		15	020	2 DF	203064	−07
10	010	2 DF	096673	−08		15	010	2 DF	064045	−13
2	10	F	033775	−01		2	15	F	243260	−03

TABLE 6 (cont.).

20	180	2 DF	000000	−27	40	180	2 DF	000000	−27
20	170	2 DF	282341	−07	40	170	2 DF	062438	−11
20	160	2 DF	114878	−06	40	160	2 DF	253590	−11
20	150	2 DF	265204	−06	40	150	2 DF	058046	−10
20	140	2 DF	048596	−05	40	140	2 DF	103979	−10
20	130	2 DF	078170	−05	40	130	2 DF	159713	−10
20	120	2 DF	114848	−05	40	120	2 DF	216451	−10
20	110	2 DF	156442	−05	40	110	2 DF	259199	−10
20	100	2 DF	197778	−05	40	100	2 DF	269807	−10
20	090	2 DF	229719	−05	40	090	2 DF	235944	−10
20	080	2 DF	239588	−05	40	080	2 DF	163571	−10
20	070	2 DF	215200	−05	40	070	2 DF	081635	−10
20	060	2 DF	154470	−05	40	060	2 DF	248540	−11
20	050	2 DF	076992	−05	40	050	2 DF	034062	−11
20	040	2 DF	199422	−06	40	040	2 DF	113408	−13
20	030	2 DF	134076	−07	40	030	2 DF	213583	−16
20	020	2 DF	276700	−10	40	020	2 DF	272262	−22
20	010	2 DF	306302	−19	40	010	2 DF	043392	−40
2	20	F	156189	−04	2	40	F	156007	−09