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RELATIVISTIC SELF-CONSISTENT CALCULATION FOR
THE NORMAL URANIUM ATOM

Stanley Cohen
February 10, 1959

Printed for the U. S. Atomic Energy Commission

RELATIVISTIC SELF-CONSISTENT CALCULATION FOR
THE NORMAL URANIUM ATOM

Stanley Cohen

RAND Corporation
Santa Monica, California

and

Lawrence Radiation Laboratory
University of California
Berkeley, California

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ABSTRACT

The relativistic self-consistent solution for the normal uranium atom is presented. A comparison is made between the energy eigenvalues for each of the subshells with corresponding experimentally determined energy-term values.

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INTRODUCTION

A previous paper¹ described a method for obtaining the relativistic self-consistent solution without exchange for an atom of arbitrary atomic number and electron configuration. This method involved the use of a rather flexible routine programmed for an IBM type-704 computing machine. The routine described therein has been used to obtain the self-consistent solution for the normal uranium atom, and the results of this calculation are presented in this report. For comparison the experimentally determined energy-term values for each of the subshells of the atom has been included. For a complete description of the method by which these results have been obtained the reader is referred to the previous report.

DETAILS OF THE CALCULATIONS

In this calculation 613 grid points were used for the numerical integrations. For reasons mentioned in the previous report the calculation was carried out by using equal grid spaces in the variable ρ defined as $\rho = \ln(1000 r/a_0)$, where a_0 is the Bohr radius in hydrogen and r is the distance from the origin. The grid spacing chosen was $\Delta\rho = 1/36$ with an innermost value of $\rho = \rho_0 = -4$. The range of values of r is therefore from $r_{\min} = r_0 = 1.83156 \times 10^{-4} a_0$ to $r_{\max} = 442.413 a_0$. As will be noted, however, values of r larger than 59.8741 are of no importance because the electron cloud has an insignificant density beyond this value. The iterations

* Work done under the auspices of the U. S. Atomic Energy Commission.

of the calculation were repeated until successive values of the individual subshell contributions to the potential at the origin were constant to at least 1 part in 10^6 . Six-figure accuracy for all energy eigenvalues was obtained as indicated by their values in successive iterations.

RESULTS FOR THE URANIUM ATOM

The energy eigenvalues obtained from this calculation are given in Table I. Also included in this table are experimental energy-term values for each of the subshells of the atom.² The Appendix contains the edited tabulations of the various potentials and the individual electronic wave functions for this solution. The relativistic radial wave functions consist of two parts--F, the large component, and G, the small component. These wave functions have been normalized and satisfy the condition

$$\int_0^\infty (F^2 + G^2) dr = 1,$$

Included in the tabulations are parameters which define the behavior of the wave function for values of r less than r_0 . The normalized wave functions for this region are expressed as power series of the form

$$F = \left(\frac{r}{r_0}\right)^\lambda (a_0 + a_1 r + a_2 r^2 + a_3 r^3 + \dots)$$

and

(1)

$$G = \left(\frac{r}{r_0}\right)^\lambda (\beta_0 + \beta_1 r + \beta_2 r^2 + \beta_3 r^3 + \dots).$$

TABLE I

Comparison of energy eigenvalues with experimentally determined term values for uranium

<u>Subshell</u>	<u>Experimental energy-term value</u>	<u>Calculated eigenvalue</u>
1S	8515.0 (Ry)	8562.76
2S	1602.44	1589.79
P _{1/2}	1542.73	1537.77
P _{3/2}	1264.32	1255.32
3S	408.66	399.48
P _{1/2}	381.66	373.79
P _{3/2}	316.90	309.50
D _{3/2}	274.42	270.05
D _{5/2}	261.51	256.95
4S	106.00	101.02
P _{1/2}	93.69	89.40
P _{3/2}	76.79	72.71
D _{3/2}	57.43	54.45
D _{5/2}	54.36	51.40
F _{5/2}	28.5	27.69
F _{7/2}	27.6	26.89
5S	23.94	22.62
P _{1/2}	18.86	18.11
P _{3/2}	13.59	14.11
D _{3/2}	7.12	7.58
D _{5/2}		7.00
F _{5/2}		0.274

TABLE I (Cont.)

<u>Subshell</u>	<u>Experimental energy-term value</u>	<u>Calculated eigenvalue</u>
6S	5.32	3.598
P _{1/2}	2.04	2.287
P _{3/2}		1.625
D _{3/2}	0.27	0.225
7S		0.379

REFERENCES

1. Stanley Cohen, "Relativistic Self-Consistent Calculation for the Normal Mercury Atom," UCRL-8389, July 28, 1958.
2. Landolt and Boernstein, Zahlenwerte und Funktionen, 6 Anflage (Springer, Berlin, 1950), p. 228.

APPENDIX

This appendix contains edited results of the self-consistent calculation for the normal uranium atom. Because these tabulations were printed by the computing machine, a description of the notation is necessary. All numbers are written in decimal form consisting of two parts: The first seven digits preceded by a decimal point are a decimal number between 0.0 and 1.0. The sign and two-digit number that follow are the power of ten by which this number is multiplied. The sign of the number is to the left of the decimal point; thus $-.9072915-07$ is to be read as $-.9072915 \times 10^{-7}$. Zero is represented as .0000000-39.

The first two pages of the tabulation contain information about the atom and its configuration. The entries at the top of the page are as follows: the problem identification number, the atomic number, the number of electrons in the atom, the number of shells in the atom, the values of r_0 , ρ_0 , and $\Delta\rho$, and the number of grid points used. Following this is the electric potential at r_0 due to the electrons of the atom. A tabulation of r , ρ , and r times the total atomic potential follows. Note that in this and other tabulations, values of the functions at every ninth grid point are given. All potentials and energies are expressed in Rydbergs.

Each electron subshell has a separate tabulation which is identified by the designation in the upper left-hand corner. Following this are the number of electrons in the subshell, the eigenvalue in Rydbergs, the potential contribution at r_0 for one electron of this subshell, and λ , the parameter used in the power series for the wave function at r_0 (see Eq. (1)). The next two lines contain α 's and β 's for this power-series expression, starting with α_0 and followed by $\alpha_1 \alpha_2, \dots$ etc. In general, only five values are given and are sufficient to express the wave function to eight significant figures for values of r near r_0 . A tabulation of the quantities $r v_i(r)$, v_i , $\int_0^r (F^2 + G^2) dr$, F , G , and ρ follows. Here v_i is the potential due to one electron in this subshell.

Although eight-figure results are tabulated here, small errors due to rounding may be present. These are sometimes manifested in inconsistencies of the monotonic behavior of some results for large values of r . Because these results are in fact not accurate to eight figures, these variations are not significant.

PROB. NO.	ATOMIC NO.	SUM NP	NO. SHELLS
•1310000 03	•9200000 02	•9200000 02	•7000000 01
R(0)	RHO(0)	DELTA RHO	GRID PTS.
•1831564-04-	•4000000 01	•2777778-01	•6130000 03

ELEC. POT. AT ORIGIN	•1567340 04
R	RHO R TIMES V(R)
•1831564-04-	•4000000 01- •1839713 03
•2351775-04-	•3750000 01- •1839632 03
•3019738-04-	•3500000 01- •1839527 03
•3877421-04-	•3250000 01- •1839393 03
•4978707-04-	•3000000 01- •1839220 03
•6392786-04-	•2750000 01- •1838998 03
•8208499-04-	•2500000 01- •1838714 03
•1053992-03-	•2250000 01- •1838349 03
•1353353-03-	•2000000 01- •1837880 03
•1737739-03-	•1750000 01- •1837279 03
•2231301-03-	•1500000 01- •1836507 03
•2865048-03-	•1250000 01- •1835516 03
•3678794-03-	•1000000 01- •1834247 03
•4723665-03-	•7500000 00- •1832619 03
•6065306-03-	•5000000 00- •1830535 03
•7788007-03-	•2500000 00- •1827870 03
•9999999-03	•0000000-39- •1824467 03
•1284025-02	•2500000 00- •1820130 03
•1648721-02	•5000000 00- •1814621 03
•2117000-02	•7500000 00- •1807649 03
•2718281-02	•1000000 01- •1798872 03
•3490342-02	•1250000 01- •1787890 03
•4481688-02	•1500000 01- •1774253 03
•5754602-02	•1750000 01- •1757462 03
•7389055-02	•2000000 01- •1736959 03
•9487734-02	•2250000 01- •1712099 03
•1218249-01	•2500000 01- •1682085 03
•1564263-01	•2750000 01- •1645885 03
•2008553-01	•3000000 01- •1602229 03
•2579033-01	•3250000 01- •1549798 03
•3311544-01	•3500000 01- •1487668 03
•4252107-01	•3750000 01- •1415621 03
•5459813-01	•4000000 01- •1333682 03
•7010539-01	•4250000 01- •1241061 03
•9001710-01	•4500000 01- •1136635 03
•1155843 00	•4750000 01- •1022094 03
•1484131 00	•5000000 01- •9024661 02
•1905662 00	•5250000 01- •7798167 02
•2446918 00	•5500000 01- •6526854 02
•3141905 00	•5750000 01- •5282602 02
•4034286 00	•6000000 01- •4200341 02
•5180126 00	•6250000 01- •3288420 02
•6651413 00	•6500000 01- •2479631 02
•8540584 00	•6750000 01- •1791846 02
•1096633 01	•7000000 01- •1254063 02
•1408104 01	•7250000 01- •8404855 01
•1808042 01	•7500000 01- •5337310 01
•2321571 01	•7750000 01- •3267099 01
•2980957 01	•8000000 01- •1918202 01
•3827624 01	•8250000 01- •1005866 01
•4914767 01	•8500000 01- •4260032 00
•6310686 01	•8750000 01- •1332571 00

•8103080 01 •9000000 01-•2853189-01
•1040456 02 •9250000 01-•3905481-02
•1335972 02 •9500000 01-•3214259-03
•1715422 02 •9750000 01-•2511040-04
•2202645 02 •1000000 02-•1142252-04
•2828253 02 •1025000 02-•9029534-05
•3631548 02 •1050000 02-•8263779-05
•4663000 02 •1075000 02-•7976621-05
•5987411 02 •1100000 02-•7466117-05
•7687987 02 •1125000 02-•7274678-05
•9871572 02 •1150000 02-•7274678-05
•1267535 03 •1175000 02-•7274678-05
•1627547 03 •1200000 02-•7274678-05
•2089812 03 •1225000 02-•7274678-05
•2683371 03 •1250000 02-•7274678-05
•3445517 03 •1275000 02-•7274678-05
•4424131 03 •1300000 02-•7274678-05

DESIGNATION	NP	RIND.	ENERGY	V(0)	LAMBDA
1 S 1/2	•2000000	01-	•8562761	04 •2461755 03	•7411404 00

	ALPHA-S	•1610523 00-	•1475071 02	•6815104 03-	•2096852 05	•4848828 06
		•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39
	BETA-S	-•6209865-01	•5731521 01-	•2644877 03	•8152987 04-	•1884141 06
		•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
•4508862-02	•2461755 03	•2193116-06	•1607824 00-	•6199376-01-	•4000000 01
•5789323-02	•2461683 03	•4076396-06	•1934193 00-	•7457749-01-	•3750000 01
•7433322-02	•2461578 03	•7575438-06	•2326496 00-	•8970328-01-	•3500000 01
•9543985-02	•2461426 03	•1407444-05	•2797882 00-	•1078780 00-	•3250000 01
•1225363-01	•2461207 03	•2614067-05	•3364029 00-	•1297059 00-	•3000000 01
•1573194-01	•2460889 03	•4853161-05	•4043575 00-	•1559054 00-	•2750000 01
•2019644-01	•2460431 03	•9005443-05	•4858605 00-	•1873275 00-	•2500000 01
•2592576-01	•2459768 03	•1669911-04	•5835157 00-	•2249756 00-	•2250000 01
•3327638-01	•2458811 03	•3093903-04	•7003743 00-	•2700248 00-	•2000000 01
•4270374-01	•2457431 03	•5725838-04	•8399814 00-	•3238406 00-	•1750000 01
•5478834-01	•2455443 03	•1058167-03	•1006410 01-	•3879906 00-	•1500000 01
•7026773-01	•2452585 03	•1951993-03	•1204267 01-	•4642472 00-	•1250000 01
•9007467-01	•2448484 03	•3592426-03	•1438650 01-	•5545695 00-	•1000000 01
•1153809 00	•2442614 03	•6591700-03	•1715017 01-	•6610533 00-	•7500000 00
•1476443 00	•2434243 03	•1204876-02	•2038928 01-	•7858287 00-	•5000000 00
•1886533 00	•2422356 03	•2191580-02	•2415578 01-	•9308775 00-	•2500000 00
•2405571 00	•2405571 03	•3961404-02	•2849022 01-	•1097735 01	•0000000-39
•3058596 00	•2382038 03	•7103376-02	•3340984 01-	•1287023 01	•2500000 00
•3873411 00	•2349343 03	•1260813-01	•3889100 01-	•1497775 01	•5000000 00
•4878507 00	•2304444 03	•2209043-01	•4484471 01-	•1726484 01	•7500000 00
•6098968 00	•2243686 03	•3807317-01	•5108515 01-	•1965902 01	•1000000 01
•7549540 00	•2162980 03	•6427239-01	•5729325 01-	•2203638 01	•1250000 01
•9224459 00	•2058255 03	•1057121 00	•6298227 01-	•2420867 01	•1500000 01
•1108493 01	•1926272 03	•1683274 00	•6748026 01-	•2591701 01	•1750000 01
•1304779 01	•1765826 03	•2575571 00	•6995526 01-	•2684225 01	•2000000 01
•1498271 01	•1579166 03	•3755348 00	•6951812 01-	•2664526 01	•2250000 01
•1672777 01	•1373099 03	•5172768 00	•6543571 01-	•2504908 01	•2500000 01
•1812964 01	•1158989 03	•6679700 00	•5745291 01-	•2196189 01	•2750000 01
•1909929 01	•9508978 02	•8050538 00	•4613820 01-	•1760786 01	•3000000 01
•1965258 01	•7620133 02	•9073197 00	•3304811 01-	•1258790 01	•3250000 01
•1989939 01	•6009097 02	•9666289 00	•2044646 01-	•7769856 00	•3500000 01
•1997986 01	•4698814 02	•9916376 00	•1048691 01-	•3974040 00	•3750000 01
•1999749 01	•3662670 02	•9986900 00	•4230941 00-	•1598225 00	•4000000 01
•1999983 01	•2852823 02	•9998881 00	•1255423 00-	•4726074-01	•4250000 01
•1999999 01	•2221799 02	•9999957 00	•2513638-01-	•9428791-02	•4500000 01
•2000000 01	•1730340 02	•9999999 00	•3041824-02-	•1136672-02	•4750000 01
•2000000 01	•1347590 02	•1000000 01	•1932784-03-	•7193198-04	•5000000 01
•2000000 01	•1049504 02	•1000000 01	•5386552-05-	•1996486-05	•5250000 01
•2000000 01	•8173546 01	•1000000 01	•5230382-07-	•1931003-07	•5500000 01
•2000000 01	•6365564 01	•1000000 01	•0000000-39	•0000000-39	•5750000 01
•2000000 01	•4957506 01	•1000000 01	•0000000-39	•0000000-39	•6000000 01
•2000000 01	•3860910 01	•1000000 01	•0000000-39	•0000000-39	•6250000 01
•2000000 01	•3006880 01	•1000000 01	•0000000-39	•0000000-39	•6500000 01
•2000000 01	•2341760 01	•1000000 01	•0000000-39	•0000000-39	•6750000 01
•2000000 01	•1823765 01	•1000000 01	•0000000-39	•0000000-39	•7000000 01
•2000000 01	•1420349 01	•1000000 01	•0000000-39	•0000000-39	•7250000 01
•2000000 01	•1106169 01	•1000000 01	•0000000-39	•0000000-39	•7500000 01
•2000000 01	•8614855 00	•1000000 01	•0000000-39	•0000000-39	•7750000 01
•2000000 01	•6709256 00	•1000000 01	•0000000-39	•0000000-39	•8000000 01

•2000000	01	•5225173	00	•1000000	01	•0000000-39	•0000000-39	•8250000	01
•2000000	01	•4069369	00	•1000000	01	•0000000-39	•0000000-39	•8500000	01
•2000000	01	•3169228	00	•1000000	01	•0000000-39	•0000000-39	•8750000	01
•2000000	01	•2468197	00	•1000000	01	•0000000-39	•0000000-39	•9000000	01
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•2000000	01	•9079991-01		•1000000	01	•0000000-39	•0000000-39	•1000000	02
•2000000	01	•7071504-01		•1000000	01	•0000000-39	•0000000-39	•1025000	02
•2000000	01	•5507293-01		•1000000	01	•0000000-39	•0000000-39	•1050000	02
•2000000	01	•4289084-01		•1000000	01	•0000000-39	•0000000-39	•1075000	02
•2000000	01	•3340342-01		•1000000	01	•0000000-39	•0000000-39	•1100000	02
•2000000	01	•2601461-01		•1000000	01	•0000000-39	•0000000-39	•1125000	02
•2000000	01	•2026020-01		•1000000	01	•0000000-39	•0000000-39	•1150000	02
•2000000	01	•1577866-01		•1000000	01	•0000000-39	•0000000-39	•1175000	02
•2000000	01	•1228843-01		•1000000	01	•0000000-39	•0000000-39	•1200000	02
•2000000	01	•9570240-02		•1000000	01	•0000000-39	•0000000-39	•1225000	02
•2000000	01	•7453311-02		•1000000	01	•0000000-39	•0000000-39	•1250000	02
•2000000	01	•5804644-02		•1000000	01	•0000000-39	•0000000-39	•1275000	02
•2000000	01	•4520661-02		•1000000	01	•0000000-39	•0000000-39	•1300000	02

DESIGNATION	NP	BIND. ENERGY	V(0)	LAMBDA
2 P 3/2	.4000000	01-.1255321	04 .4548443	02 .1883956
				01

ALPHA S	.1203937-04-	.5454619-03	.1313527-01-	.2137796 00	.2644314 01
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39
BETA S	-.2081031-05	.9995789-04-	.2438068-02	.4018323-01-	.4999359 00
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
.8330765-03	.4548444	02	.5726516-15	.1202939-04-	.2079201-05- .4000000 01
.1069691-02	.4548444	02	.1885337-14	.1926145-04-	.3329170-05- .3750000 01
.1373511-02	.4548443	02	.6206443-14	.3083937-04-	.5330212-05- .3500000 01
.1763623-02	.4548444	02	.2042832-13	.4937244-04-	.8533230-05- .3250000 01
.2264537-02	.4548443	02	.6722693-13	.7903433-04-	.1365940-04- .3000000 01
.2907723-02	.4548444	02	.2211831-12	.1264985-03-	.2186173-04- .2750000 01
.3733590-02	.4548443	02	.7274948-12	.2024306-03-	.3498273-04- .2500000 01
.4794024-02	.4548444	02	.2391883-11	.3238660-03-	.5596484-04- .2250000 01
.6155648-02	.4548443	02	.7860211-11	.5179937-03-	.8950325-04- .2000000 01
.7904009-02	.4548444	02	.2581380-10	.8281639-03-	.1430820-03- .1750000 01
.1014895-01	.4548443	02	.8470604-10	.1323407-02-	.2286145-03- .1500000 01
.1303151-01	.4548444	02	.2776649-09	.2113466-02-	.3650314-03- .1250000 01
.1673279-01	.4548444	02	.9089554-09	.3372434-02-	.5823469-03- .1000000 01
.2148532-01	.4548443	02	.2970391-08	.5375732-02-	.9280087-03- .7500000 00
.2758770-01	.4548443	02	.9685493-08	.8557548-02-	.1476743-02- .5000000 00
.3542330-01	.4548442	02	.3149162-07	.1359921-01-	.2345663-02- .2500000 00
.4548438-01	.4548439	02	.1020200-06	.2156349-01-	.3717157-02 .0000000-39
.5840299-01	.4548430	02	.3289627-06	.3409528-01-	.5872926-02 .2500000 00
.7499058-01	.4548410	02	.1054411-05	.5371457-01-	.9243388-02 .5000000 00
.9628871-01	.4548358	02	.3353877-05	.8423017-01-	.1447687-01 .7500000 00
.1236337 00	.4548229	02	.1056407-04	.1312960 00-	.2253156-01 .1000000 01
.1587379 00	.4547917	02	.3286110-04	.2031025 00-	.3478778-01 .1250000 01
.2037898 00	.4547166	02	.1006008-03	.3111195 00-	.5316474-01 .1500000 01
.2615694 00	.4545395	02	.3017810-03	.4706493 00-	.8019914-01 .1750000 01
.3355604 00	.4541316	02	.8821890-03	.7006565 00-	.1189949 00 .2000000 01
.4300027 00	.4532196	02	.2495792-02	.1021903 01-	.1728823 00 .2250000 01
.5497407 00	.4512547	02	.6774714-02	.1451894 01-	.2445420 00 .2500000 01
.6995637 00	.4472162	02	.1745802-01	.1994924 01-	.3343223 00 .2750000 01
.8825354 00	.4393886	02	.4216206-01	.2626478 01-	.4376515 00 .3000000 01
.1096812 01	.4252804	02	.9398385-01	.3274891 01-	.5420956 00 .3250000 01
.1331279 01	.4020114	02	.1900650 00	.3810480 01-	.6258868 00 .3500000 01
.1562640 01	.3674978	02	.3424828 00	.4060963 01-	.6610893 00 .3750000 01
.1759298 01	.3222267	02	.5411472 00	.3871787 01-	.6240364 00 .4000000 01
.1895327 01	.2703540	02	.7434409 00	.3205156 01-	.5110517 00 .4250000 01
.1966789 01	.2184906	02	.8945953 00	.2218435 01-	.3495834 00 .4500000 01
.1993040 01	.1724318	02	.9713392 00	.1224675 01-	.1904289 00 .4750000 01
.1999149 01	.1347016	02	.9954558 00	.5084762 00-	.7789320-01 .5000000 01
.1999948 01	.1049477	02	.9996408 00	.1474095 00-	.2223425-01 .5250000 01
.1999998 01	.8173540	01	.9999884 00	.2712701-01-	.4029292-02 .5500000 01
.2000000 01	.6365563	01	.9999999 00	.2809169-02-	.4107408-03 .5750000 01
.2000000 01	.4957506	01	.1000000 01	.1408146-03-	.2025775-04 .6000000 01
.2000000 01	.3860909	01	.1000000 01	.2820003-05-	.3994547-06 .6250000 01
.2000000 01	.3006879	01	.1000000 01	.1761085-07-	.2460300-08 .6500000 01
.2000000 01	.2341760	01	.1000000 01	.2507213-10-	.3460105-11 .6750000 01
.2000000 01	.1823765	01	.1000000 01	.0000000-39	.0000000-39 .7000000 01
.2000000 01	.1420349	01	.1000000 01	.0000000-39	.0000000-39 .7250000 01
.2000000 01	.1106169	01	.1000000 01	.0000000-39	.0000000-39 .7500000 01
.2000000 01	.8614855	00	.1000000 01	.0000000-39	.0000000-39 .7750000 01
.2000000 01	.6709256	00	.1000000 01	.0000000-39	.0000000-39 .8000000 01

•2000000	01	•5225173	00	•1000000	01	•0000000-39	•0000000-39	•8250000	01
•2000000	01	•4069369	00	•1000000	01	•0000000-39	•0000000-39	•8500000	01
•2000000	01	•3169228	00	•1000000	01	•0000000-39	•0000000-39	•8750000	01
•2000000	01	•2468197	00	•1000000	01	•0000000-39	•0000000-39	•9000000	01
•2000000	01	•1922234	00	•1000000	01	•0000000-39	•0000000-39	•9250000	01
•2000000	01	•1497037	00	•1000000	01	•0000000-39	•0000000-39	•9500000	01
•2000000	01	•1165894	00	•1000000	01	•0000000-39	•0000000-39	•9750000	01
•2000000	01	•9079991-01		•1000000	01	•0000000-39	•0000000-39	•1000000	02
•2000000	01	•7071504-01		•1000000	01	•0000000-39	•0000000-39	•1025000	02
•2000000	01	•5507293-01		•1000000	01	•0000000-39	•0000000-39	•1050000	02
•2000000	01	•4289084-01		•1000000	01	•0000000-39	•0000000-39	•1075000	02
•2000000	01	•3340342-01		•1000000	01	•0000000-39	•0000000-39	•1100000	02
•2000000	01	•2601461-01		•1000000	01	•0000000-39	•0000000-39	•1125000	02
•2000000	01	•2026020-01		•1000000	01	•0000000-39	•0000000-39	•1150000	02
•2000000	01	•1577866-01		•1000000	01	•0000000-39	•0000000-39	•1175000	02
•2000000	01	•1228843-01		•1000000	01	•0000000-39	•0000000-39	•1200000	02
•2000000	01	•9570240-02		•1000000	01	•0000000-39	•0000000-39	•1225000	02
•2000000	01	•7453311-02		•1000000	01	•0000000-39	•0000000-39	•1250000	02
•2000000	01	•5804644-02		•1000000	01	•0000000-39	•0000000-39	•1275000	02
•2000000	01	•4520661-02		•1000000	01	•0000000-39	•0000000-39	•1300000	02

DESIGNATION	NP	BIND.	ENERGY	V(0)	LAMBDA
2 P 1/2	.2000000	01-	.1537767	04	.6174333 02 .7411404 00

ALPHA S	.8348209-02	.1725015	01-	.9265859	02	.2453594	04-	.4296480	05
	.0000000-39	.0000000	-39	.0000000	-39	.0000000	-39	.0000000	-39
BETA S	.2165101-01-	.1437500	01	.4672866	02-	.9762779	03	.1499262	05
	.0000000-39	.0000000	-39	.0000000	-39	.0000000	-39	.0000000	-39

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
.1130869-02	.6174333 02	.3969831-08	.8377773-02	.2162469-01-	.4000000 01
.1452061-02	.6174320 02	.7382143-08	.1009635-01	.2601766-01-	.3750000 01
.1864477-02	.6174301 02	.1372667-07	.1216822-01	.3129997-01-	.3500000 01
.2394026-02	.6174274 02	.2552181-07	.1467090-01	.3764999-01-	.3250000 01
.3073970-02	.6174234 02	.4744736-07	.1769700-01	.4528095-01-	.3000000 01
.3947019-02	.6174176 02	.8819694-07	.2136066-01	.5444726-01-	.2750000 01
.5068004-02	.6174093 02	.1639155-06	.2580333-01	.6545167-01-	.2500000 01
.6507319-02	.6173972 02	.3045725-06	.3120154-01	.7865324-01-	.2250000 01
.8355326-02	.6173798 02	.5657699-06	.3777742-01	.9447601-01-	.2000000 01
.1072801-01	.6173545 02	.1050594-05	.4581304-01	.1134178 00-	.1750000 01
.1377422-01	.6173180 02	.1950004-05	.5567036-01	.1360586 00-	.1500000 01
.1768494-01	.6172652 02	.3617362-05	.6781918-01	.1630670 00-	.1250000 01
.2270511-01	.6171889 02	.6705698-05	.8287652-01	.1952031 00-	.1000000 01
.2914874-01	.6170788 02	.1241995-04	.1016624 00	.2333135 00-	.7500000 00
.3741809-01	.6169201 02	.2297928-04	.1252790 00	.2783146 00-	.5000000 00
.4802798-01	.6166916 02	.4246215-04	.1552218 00	.3311545 00-	.2500000 00
.6163629-01	.6163630 02	.7834676-04	.1935356 00	.3927446 00	.0000000-39
.7908198-01	.6158912 02	.1443136-03	.2430268 00	.4638427 00	.2500000 00
.1014318 00	.6152150 02	.2653407-03	.3075452 00	.5448689 00	.5000000 00
.1300362 00	.6142477 02	.4869854-03	.3923386 00	.6356291 00	.7500000 00
.1665943 00	.6128663 02	.8923986-03	.5044588 00	.7349203 00	.1000000 01
.2132236 00	.6108958 02	.1633854-02	.6531448 00	.8400026 00	.1250000 01
.2725253 00	.6080862 02	.2992055-02	.8500040 00	.9459520 00	.1500000 01
.3476216 00	.6040758 02	.5489233-02	.1108632 01	.1044971 01	.1750000 01
.4421138 00	.5983361 02	.1010525-01	.1443033 01	.1125857 01	.2000000 01
.5598604 00	.5900887 02	.1868005-01	.1863899 01	.1174021 01	.2250000 01
.7043885 00	.5781974 02	.3460737-01	.2371601 01	.1172670 01	.2500000 01
.8776555 00	.5610665 02	.6383531-01	.2945279 01	.1105943 01	.2750000 01
.1077883 01	.5366465 02	.1157513 00	.3529409 01	.9645336 00	.3000000 01
.1296605 01	.5027482 02	.2024717 00	.4023800 01	.7532124 00	.3250000 01
.1516307 01	.4578853 02	.3338355 00	.4289306 01	.4972463 00	.3500000 01
.1711861 01	.4025912 02	.5066483 00	.4184591 01	.2420192 00	.3750000 01
.1858913 01	.3404718 02	.6943280 00	.3638162 01	.4034531-01	.4000000 01
.1946935 01	.2777155 02	.8528288 00	.2726494 01-	.7119679-01	.4250000 01
.1985931 01	.2206170 02	.9497410 00	.1689118 01-	.9353833-01	.4500000 01
.1997638 01	.1728296 02	.9891108 00	.8211056 00-	.6409460-01	.4750000 01
.1999781 01	.1347442 02	.9986944 00	.2935058 00-	.2799523-01	.5000000 01
.1999990 01	.1049499 02	.9999270 00	.7106628-01-	.7712074-02	.5250000 01
.2000000 01	.8173544 01	.9999985 00	.1049291-01-	.1242574-02	.5500000 01
.2000000 01	.6365563 01	.1000000 01	.8269721-03-	.1039520-03	.5750000 01
.2000000 01	.4957506 01	.1000000 01	.2943799-04-	.3853463-05	.6000000 01
.2000000 01	.3860909 01	.1000000 01	.3826321-06-	.5150833-07	.6250000 01
.2000000 01	.3006879 01	.1000000 01	.1382273-08-	.1897808-09	.6500000 01
.2000000 01	.2341760 01	.1000000 01	.0000000-39	.0000000-39	.6750000 01
.2000000 01	.1823765 01	.1000000 01	.0000000-39	.0000000-39	.7000000 01
.2000000 01	.1420349 01	.1000000 01	.0000000-39	.0000000-39	.7250000 01
.2000000 01	.1106169 01	.1000000 01	.0000000-39	.0000000-39	.7500000 01
.2000000 01	.8614855 00	.1000000 01	.0000000-39	.0000000-39	.7750000 01
.2000000 01	.6709256 00	.1000000 01	.0000000-39	.0000000-39	.8000000 01

•2000000	01	•5225173	00	•1000000	01	•0000000-39	•0000000-39	•8250000	01
•2000000	01	•4069369	00	•1000000	01	•0000000-39	•0000000-39	•8500000	01
•2000000	01	•3169228	00	•1000000	01	•0000000-39	•0000000-39	•8750000	01
•2000000	01	•2468197	00	•1000000	01	•0000000-39	•0000000-39	•9000000	01
•2000000	01	•1922234	00	•1000000	01	•0000000-39	•0000000-39	•9250000	01
•2000000	01	•1497037	00	•1000000	01	•0000000-39	•0000000-39	•9500000	01
•2000000	01	•1165894	00	•1000000	01	•0000000-39	•0000000-39	•9750000	01
•2000000	01	•9079991-01		•1000000	01	•0000000-39	•0000000-39	•1000000	02
•2000000	01	•7071504-01		•1000000	01	•0000000-39	•0000000-39	•1025000	02
•2000000	01	•5507293-01		•1000000	01	•0000000-39	•0000000-39	•1050000	02
•2000000	01	•4289084-01		•1000000	01	•0000000-39	•0000000-39	•1075000	02
•2000000	01	•3340342-01		•1000000	01	•0000000-39	•0000000-39	•1100000	02
•2000000	01	•2601461-01		•1000000	01	•0000000-39	•0000000-39	•1125000	02
•2000000	01	•2026020-01		•1000000	01	•0000000-39	•0000000-39	•1150000	02
•2000000	01	•1577866-01		•1000000	01	•0000000-39	•0000000-39	•1175000	02
•2000000	01	•1228843-01		•1000000	01	•0000000-39	•0000000-39	•1200000	02
•2000000	01	•9570240-02		•1000000	01	•0000000-39	•0000000-39	•1225000	02
•2000000	01	•7453311-02		•1000000	01	•0000000-39	•0000000-39	•1250000	02
•2000000	01	•5804644-02		•1000000	01	•0000000-39	•0000000-39	•1275000	02
•2000000	01	•4520661-02		•1000000	01	•0000000-39	•0000000-39	•1300000	02

DESIGNATION	NP	RIND.	ENERGY	V(0)	LAMBDA	
2 S 1/2	•2000000	01-	•1589790	04	•6193459 02	•7411404 00

ALPHA S	•6636768-01-	•7223150 01	•2804510 03-	•6525026 04	•1072677 06
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39
BETA S	-•2559009-01	•2042497 01-	•7213140 02	•1591976 04-	•2537876 05
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
•1134372-02	•6193460 02	•3722964-07	•6623548-01-	•2555271-01-	•4000000 01
•1456533-02	•6193337 02	•6919271-07	•7967332-01-	•3074149-01-	•3750000 01
•1870172-02	•6193159 02	•1285690-06	•9582199-01-	•3697955-01-	•3500000 01
•2401248-02	•6192901 02	•2388296-06	•1152199 00-	•4447669-01-	•3250000 01
•3083079-02	•6192529 02	•4434877-06	•1385079 00-	•5348338-01-	•3000000 01
•3958407-02	•6191991 02	•8231355-06	•1664460 00-	•6429789-01-	•2750000 01
•5082057-02	•6191213 02	•1526861-05	•199316 00-	•7727432-01-	•2500000 01
•6524305-02	•6190089 02	•2830035-05	•2400184 00-	•9283134-01-	•2250000 01
•8375180-02	•6188468 02	•5240256-05	•2879336 00-	•1114613 00-	•2000000 01
•1074988-01	•6186131 02	•9690781-05	•3450920 00-	•1337390 00-	•1750000 01
•1379562-01	•6182769 02	•1789175-04	•4131004 00-	•1603292 00-	•1500000 01
•1770009-01	•6177939 02	•3296338-04	•4937466 00-	•1919902 00-	•1250000 01
•2270191-01	•6171019 02	•6056674-04	•5889601 00-	•2295718 00-	•1000000 01
•2910314-01	•6161135 02	•1108981-03	•7007266 00-	•2740006 00-	•7500000 00
•3728386-01	•6147071 02	•2021478-03	•8309299 00-	•3262475 00-	•5000000 00
•4771840-01	•6127164 02	•3663624-03	•9810815 00-	•3872647 00-	•2500000 00
•6099171-01	•6099172 02	•6590678-03	•1151885 01-	•4578773 00	•0000000-39
•7781378-01	•6060144 02	•1174349-02	•1342560 01-	•5386095 00	•2500000 00
•9902748-01	•6006321 02	•2066850-02	•1549850 01-	•6294170 00	•5000000 00
•1256045 00	•5933137 02	•3580189-02	•1766603 01-	•7292985 00	•7500000 00
•1586233 00	•5835426 02	•6075211-02	•1979890 01-	•8357600 00	•1000000 01
•1992290 00	•5708008 02	•1003774-01	•2168687 01-	•9441289 00	•1250000 01
•2485925 00	•5546849 02	•1602090-01	•2301396 01-	•1046768 01	•1500000 01
•3079245 00	•5350926 02	•2444737-01	•2333966 01-	•1132342 01	•1750000 01
•3786624 00	•5124639 02	•3519703-01	•2210086 01-	•1185486 01	•2000000 01
•4629973 00	•4879956 02	•4703398-01	•1866014 01-	•1187440 01	•2250000 01
•5648274 00	•4636387 02	•5735362-01	•1243539 01-	•1118542 01	•2500000 01
•6907739 00	•4415971 02	•6352357-01	•3144172 00-	•9634695 00	•2750000 01
•8498742 00	•4231276 02	•6761736-01-	•8838802 00-	•7195745 00	•3000000 01
•1049488 01	•4069309 02	•8442004-01-	•2210728 01-	•4066803 00	•3250000 01
•1285967 01	•3883284 02	•1456227 00-	•3408474 01-	•7318136-01	•3500000 01
•1534645 01	•3609140 02	•2853109 00-	•4149948 01	•2100771 00	•3750000 01
•1752101 01	•3209086 02	•5022599 00-	•4171013 01	•3745145 00	•4000000 01
•1899733 01	•2709825 02	•7350098 00-	•3447130 01	•3907022 00	•4250000 01
•1971864 01	•2190544 02	•9021753 00-	•2280331 01	•2924512 00	•4500000 01
•1995094 01	•1726095 02	•9776554 00-	•1155680 01	•1592661 00	•4750000 01
•1999536 01	•1347277 02	•9972471 00-	•4225352 00	•6078607-01	•5000000 01
•1999980 01	•1049493 02	•9998457 00-	•1029337 00	•1519562-01	•5250000 01
•1999999 01	•8173544 01	•9999969 00-	•1505716-01	•2256901-02	•5500000 01
•2000000 01	•6365563 01	•1000000 01-	•1157504-02	•1748154-03	•5750000 01
•2000000 01	•4957506 01	•1000000 01-	•3951616-04	•5980044-05	•6000000 01
•2000000 01	•3860909 01	•1000000 01-	•4831352-06	•7303546-07	•6250000 01
•2000000 01	•3006879 01	•1000000 01-	•1604706-08	•2419990-09	•6500000 01
•2000000 01	•2341760 01	•1000000 01-	•1024861-11	•1540968-12	•6750000 01
•2000000 01	•1823765 01	•1000000 01	•0000000-39	•0000000-39	•7000000 01
•2000000 01	•1420349 01	•1000000 01	•0000000-39	•0000000-39	•7250000 01
•2000000 01	•1106169 01	•1000000 01	•0000000-39	•0000000-39	•7500000 01
•2000000 01	•8614855 00	•1000000 01	•0000000-39	•0000000-39	•7750000 01
•2000000 01	•6709256 00	•1000000 01	•0000000-39	•0000000-39	•8000000 01

•2000000 01	•5225173 00	•1000000 01	•0000000-39	•0000000-39	•8250000 01
•2000000 01	•4069369 00	•1000000 01	•0000000-39	•0000000-39	•8500000 01
•2000000 01	•3169228 00	•1000000 01	•0000000-39	•0000000-39	•8750000 01
•2000000 01	•2468197 00	•1000000 01	•0000000-39	•0000000-39	•9000000 01
•2000000 01	•1922234 00	•1000000 01	•0000000-39	•0000000-39	•9250000 01
•2000000 01	•1497037 00	•1000000 01	•0000000-39	•0000000-39	•9500000 01
•2000000 01	•1165894 00	•1000000 01	•0000000-39	•0000000-39	•9750000 01
•2000000 01	•9079991-01	•1000000 01	•0000000-39	•0000000-39	•1000000 02
•2000000 01	•7071504-01	•1000000 01	•0000000-39	•0000000-39	•1025000 02
•2000000 01	•5507293-01	•1000000 01	•0000000-39	•0000000-39	•1050000 02
•2000000 01	•4289084-01	•1000000 01	•0000000-39	•0000000-39	•1075000 02
•2000000 01	•3340342-01	•1000000 01	•0000000-39	•0000000-39	•1100000 02
•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	BIND.	ENERGY	V(0)	LAMBDA	
3 D 5/2	.6000000	01-	.2569469	03	.1690412 02	.2923917 01

ALPHA S	.4822012-09-	.1446771-07	.2473659-06-	.2926177-05	.2682344-04
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39
BETA S	-.5464726-10	.1862063-08-	.3299837-07	.4029332-06-	.3759058-05
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39

R	TIMES	V(R)	V(R)	INTEGRAL	F	G	RHO
.3096098-03		.1690412	02	.6292895-24	.4819363-09-	.5461317-10-	.4000000 01
.3975469-03		.1690413	02	.3485166-23	.1000880-08-	.1134176-09-	.3750000 01
.5104603-03		.1690412	02	.1930061-22	.2078525-08-	.2355277-09-	.3500000 01
.6554440-03		.1690413	02	.1068734-21	.4316222-08-	.4890748-09-	.3250000 01
.8416068-03		.1690412	02	.5917157-21	.8962321-08-	.1015483-08-	.3000000 01
.1080645-02		.1690413	02	.3275557-20	.1860786-07-	.2108257-08-	.2750000 01
.1387575-02		.1690412	02	.1812866-19	.3862960-07-	.4376381-08-	.2500000 01
.1781682-02		.1690413	02	.1003065-18	.8018197-07-	.9083024-08-	.2250000 01
.2287724-02		.1690412	02	.5548064-18	.1663976-06-	.1884724-07-	.2000000 01
.2937496-02		.1690413	02	.3067330-17	.3452286-06-	.3909664-07-	.1750000 01
.3771820-02		.1690412	02	.1694850-16	.7160187-06-	.8107179-07-	.1500000 01
.4843112-02		.1690413	02	.9358007-16	.1484430-05-	.1680324-06-	.1250000 01
.6218679-02		.1690412	02	.5162100-15	.3075820-05-	.3480570-06-	.1000000 01
.7984942-02		.1690413	02	.2844100-14	.6368863-05-	.7203888-06-	.7500000 00
.1025287-01		.1690412	02	.1564552-13	.1317582-04-	.1489520-05-	.5000000 00
.1316494-01		.1690413	02	.8589574-13	.2722696-04-	.3075850-05-	.2500000 00
.1690412-01		.1690412	02	.4703773-12	.5618068-04-	.6341122-05	.0000000-39
.2170532-01		.1690413	02	.2567451-11	.1157077-03-	.1304513-04	.2500000 00
.2787019-01		.1690412	02	.1395534-10	.2377369-03-	.2676428-04	.5000000 00
.3578603-01		.1690413	02	.7544870-10	.4869646-03-	.5472217-04	.7500000 00
.4595016-01		.1690412	02	.4051223-09	.9935533-03-	.1113935-03	.1000000 01
.5900118-01		.1690413	02	.2156330-08	.2016979-02-	.2254895-03	.1250000 01
.7575901-01		.1690412	02	.1134974-07	.4068370-02-	.4532207-03	.1500000 01
.9727648-01		.1690412	02	.5889261-07	.8139076-02-	.9027988-03	.1750000 01
.1249054 00		.1690411	02	.3000864-06	.1611322-01-	.1778044-02	.2000000 01
.1603813 00		.1690407	02	.1494183-05	.3147706-01-	.3452005-02	.2250000 01
.2059317 00		.1690390	02	.7225067-05	.6045490-01-	.6581785-02	.2500000 01
.2644120 00		.1690330	02	.3366604-04	.1136321 00-	.1226545-01	.2750000 01
.3394687 00		.1690115	02	.1497165-03	.2078266 00-	.2220538-01	.3000000 01
.4357014 00		.1689398	02	.6279594-03	.3672069 00-	.3875895-01	.3250000 01
.5587074 00		.1687151	02	.2448733-02	.6212414 00-	.6462410-01	.3500000 01
.7146377 00		.1680667	02	.8726748-02	.9953116 00-	.1017869 00	.3750000 01
.9083790 00		.1663755	02	.2785626-01	.1489553 01-	.1494227 00	.4000000 01
.1139003 01		.1624701	02	.7783453-01	.2047144 01-	.2010114 00	.4250000 01
.1392307 01		.1546713	02	.1857356 00	.2530185 01-	.2425106 00	.4500000 01
.1635654 01		.1415119	02	.3699468 00	.2742711 01-	.2556330 00	.4750000 01
.1826793 01		.1230884	02	.6061073 00	.2530243 01-	.2285616 00	.5000000 01
.1940137 01		.1018091	02	.8197839 00	.1913118 01-	.1672644 00	.5250000 01
.1986450 01		.8118170	01	.9461698 00	.1130550 01-	.9555195-01	.5500000 01
.1998222 01		.6359904	01	.9907572 00	.4936772 00-	.4018445-01	.5750000 01
.1999883 01		.4957216	01	.9992105 00	.1493024 00-	.1166235-01	.6000000 01
.1999997 01		.3860903	01	.9999720 00	.2879144-01-	.2159452-02	.6250000 01
.2000000 01		.3006879	01	.9999997 00	.3166369-02-	.2287924-03	.6500000 01
.2000000 01		.2341760	01	.1000000 01	.1718990-03-	.1200392-04	.6750000 01
.2000000 01		.1823765	01	.1000000 01	.3836691-05-	.2597846-06	.7000000 01
.2000000 01		.1420349	01	.1000000 01	.2782507-07-	.1834075-08	.7250000 01
.2000000 01		.1106169	01	.1000000 01	.4857685-10-	.3129380-11	.7500000 01
.2000000 01		.8614854	00	.1000000 01	.1459680-13-	.9257913-15	.7750000 01
.2000000 01		.6709256	00	.1000000 01	.0000000-39	.0000000-39	.8000000 01

•2000000 01 •5225173 00 •1000000 01 •0000000-39 •0000000-39 •8250000 01
•2000000 01 •4069369 00 •1000000 01 •0000000-39 •0000000-39 •8500000 01
•2000000 01 •3169228 00 •1000000 01 •0000000-39 •0000000-39 •8750000 01
•2000000 01 •2468197 00 •1000000 01 •0000000-39 •0000000-39 •9000000 01
•2000000 01 •1922234 00 •1000000 01 •0000000-39 •0000000-39 •9250000 01
•2000000 01 •1497037 00 •1000000 01 •0000000-39 •0000000-39 •9500000 01
•2000000 01 •1165894 00 •1000000 01 •0000000-39 •0000000-39 •9750000 01
•2000000 01 •9079991-01 •1000000 01 •0000000-39 •0000000-39 •1000000 02
•2000000 01 •7071594-01 •1000000 01 •0000000-39 •0000000-39 •1025000 02
•2000000 01 •5507293-01 •1000000 01 •0000000-39 •0000000-39 •1050000 02
•2000000 01 •4289084-01 •1000000 01 •0000000-39 •0000000-39 •1075000 02
•2000000 01 •3340342-01 •1000000 01 •0000000-39 •0000000-39 •1100000 02
•2000000 01 •2601461-01 •1000000 01 •0000000-39 •0000000-39 •1125000 02
•2000000 01 •2026020-01 •1000000 01 •0000000-39 •0000000-39 •1150000 02
•2000000 01 •1577866-01 •1000000 01 •0000000-39 •0000000-39 •1175000 02
•2000000 01 •1228843-01 •1000000 01 •0000000-39 •0000000-39 •1200000 02
•2000000 01 •9570240-02 •1000000 01 •0000000-39 •0000000-39 •1225000 02
•2000000 01 •7453311-02 •1000000 01 •0000000-39 •0000000-39 •1250000 02
•2000000 01 •5804644-02 •1000000 01 •0000000-39 •0000000-39 •1275000 02
•2000000 01 •4520661-02 •1000000 01 •0000000-39 •0000000-39 •1300000 02

DESIGNATION	NP	BIND.	ENERGY	V(0)	LAMBDA	
3 D 3/2	•4000000	01-	•2700575	03	•1776562 02	•1883956 01

ALPHA S	•1182192-06	•3402105-04-	•1076589-02	•1889135-01-	•2271543 00
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39
BETA S	•6839327-06-	•2495052-04	•5035364-03-	•6876105-02	•7155674-01
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
•3253887-03	•1776562 02	•1849058-17	•1188420-06	•6834759-06-	•4000000 01
•4178074-03	•1776562 02	•6088603-17	•1906177-06	•1094432-05-	•3750000 01
•5364753-03	•1776562 02	•2004747-16	•3058709-06	•1752390-05-	•3500000 01
•6888480-03	•1776562 02	•6600285-16	•4910720-06	•2805710-05-	•3250000 01
•8844983-03	•1776562 02	•2172797-15	•7889479-06	•4491756-05-	•3000000 01
•1135718-02	•1776562 02	•7151797-15	•1268612-05	•7190184-05-	•2750000 01
•1458291-02	•1776562 02	•2353608-14	•2042158-05	•1150801-04-	•2500000 01
•1872483-02	•1776562 02	•7743808-14	•3291985-05	•1841531-04-	•2250000 01
•2404316-02	•1776562 02	•2547118-13	•5316123-05	•2946136-04-	•2000000 01
•3087202-02	•1776562 02	•8374958-13	•8603967-05	•4711855-04-	•1750000 01
•3964046-02	•1776562 02	•2752400-12	•1396405-04	•7532834-04-	•1500000 01
•5089936-02	•1776562 02	•9040244-12	•2274181-04	•1203658-03-	•1250000 01
•6535607-02	•1776562 02	•2967011-11	•3719515-04	•1922044-03-	•1000000 01
•8391886-02	•1776562 02	•9728412-11	•6114998-04	•3066608-03-	•7500000 00
•1077539-01	•1776562 02	•3185977-10	•1011593-03	•4887476-03-	•5000000 00
•1383588-01	•1776562 02	•1041819-09	•1685783-03	•7778749-03-	•2500000 00
•1776562-01	•1776562 02	•3400464-09	•2833223-03	•1235845-02	•0000000-39
•2281151-01	•1776562 02	•1107400-08	•4807411-03	•1958977-02	•2500000 00
•2929056-01	•1776562 02	•3596642-08	•8242899-03	•3096190-02	•5000000 00
•3760982-01	•1776562 02	•1164448-07	•1428986-02	•4875308-02	•7500000 00
•4829195-01	•1776562 02	•3756656-07	•2504851-02	•7640058-02	•1000000 01
•6200805-01	•1776561 02	•1207380-06	•4436982-02	•1189950-01	•1250000 01
•7961979-01	•1776558 02	•3866364-06	•7931533-02	•1838881-01	•1500000 01
•1022334 00	•1776551 02	•1234495-05	•1427675-01	•2813330-01	•1750000 01
•1312690 00	•1776534 02	•3936261-05	•2579569-01	•4249282-01	•2000000 01
•1685487 00	•1776490 02	•1256547-04	•4659513-01	•6313762-01	•2250000 01
•2164076 00	•1776382 02	•4028170-04	•8371584-01	•9186726-01	•2500000 01
•2778304 00	•1776111 02	•1299753-03	•1486901 00	•1301406 00	•2750000 01
•3566039 00	•1775427 02	•4216853-03	•2591678 00	•1781724 00	•3000000 01
•4574427 00	•1773698 02	•1365475-02	•4394731 00	•2335476 00	•3250000 01
•5859370 00	•1769377 02	•4344189-02	•7175744 00	•2896222 00	•3500000 01
•7479020 00	•1758897 02	•1325887-01	•1114442 01	•3345757 00	•3750000 01
•9472304 00	•1734914 02	•3768350-01	•1622065 01	•3527110 00	•4000000 01
•1181066 01	•1684700 02	•9650948-01	•2172902 01	•3298428 00	•4250000 01
•1432706 01	•1591593 02	•2154985 00	•2620846 01	•2627431 00	•4500000 01
•1668139 01	•1443223 02	•4076157 00	•2772970 01	•1670437 00	•4750000 01
•1847134 01	•1244590 02	•6415403 00	•2494894 01	•7355034-01	•5000000 01
•1949226 01	•1022861 02	•8426406 00	•1836361 01	•1091162-01	•5250000 01
•1989065 01	•8128856 01	•9553457 00	•1053170 01-	•1252153-01	•5500000 01
•1998651 01	•6361271 01	•9928028 00	•4442386 00-	•1111612-01	•5750000 01
•1999918 01	•4957302 01	•9994316 00	•1289141 00-	•4441762-02	•6000000 01
•1999998 01	•3860905 01	•9999817 00	•2363720-01-	•9758165-03	•6250000 01
•2000000 01	•3006879 01	•9999998 00	•2441953-02-	•1130453-03	•6500000 01
•2000000 01	•2341760 01	•1000000 01	•1225688-03-	•6118540-05	•6750000 01
•2000000 01	•1823765 01	•1000000 01	•2477200-05-	•1300998-06	•7000000 01
•2000000 01	•1420349 01	•1000000 01	•1583736-07-	•8615885-09	•7250000 01
•2000000 01	•1106169 01	•1000000 01	•2356407-10-	•1314044-11	•7500000 01
•2000000 01	•8614855 00	•1000000 01	•0000000-39	•0000000-39	•7750000 01
•2000000 01	•6709256 00	•1000000 01	•0000000-39	•0000000-39	•8000000 01

•2000000 01	•5225173 00	•1000000 01	•0000000-39	•0000000-39	•8250000 01
•2000000 01	•4069369 00	•1000000 01	•0000000-39	•0000000-39	•8500000 01
•2000000 01	•3169228 00	•1000000 01	•0000000-39	•0000000-39	•8750000 01
•2000000 01	•2468197 00	•1000000 01	•0000000-39	•0000000-39	•9000000 01
•2000000 01	•1922234 00	•1000000 01	•0000000-39	•0000000-39	•9250000 01
•2000000 01	•1497037 00	•1000000 01	•0000000-39	•0000000-39	•9500000 01
•2000000 01	•1165894 00	•1000000 01	•0000000-39	•0000000-39	•9750000 01
•2000000 01	•9079991-01	•1000000 01	•0000000-39	•0000000-39	•1000000 02
•2000000 01	•7071504-01	•1000000 01	•0000000-39	•0000000-39	•1025000 02
•2000000 01	•5507293-01	•1000000 01	•0000000-39	•0000000-39	•1050000 02
•2000000 01	•4289084-01	•1000000 01	•0000000-39	•0000000-39	•1075000 02
•2000000 01	•3340342-01	•1000000 01	•0000000-39	•0000000-39	•1100000 02
•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	BIND.	ENERGY	V(0)	LAMBDA
3 P 3/2	.4000000	01-	.3095053	03 .1793944 02	.1883956 01

ALPHA S	.6463014-05-	.2996996-03	.6721918-02-	.9930621-01	.1091447 01
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39
BETA S	-.1117146-05	.5017216-04-	.1112426-02	.1630756-01-	.1783731 00
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39

R TIMES	V(R)	V(R)	INTEGRAL	F	G	RHO
.3285723-03	.1793944	02	.1650215-15	.6457527-05-	.1116227-05-	.4000000 01
.4218951-03	.1793944	02	.5432947-15	.1033973-04-	.1787307-05-	.3750000 01
.5417241-03	.1793944	02	.1788483-14	.1655475-04-	.2861651-05-	.3500000 01
.6955874-03	.1793944	02	.5886656-14	.2650317-04-	.4581390-05-	.3250000 01
.8931520-03	.1793944	02	.1937189-13	.4242520-04-	.7333821-05-	.3000000 01
.1146830-02	.1793944	02	.6373396-13	.6790269-04-	.1173822-04-	.2750000 01
.1472559-02	.1793944	02	.2096218-12	.1086599-03-	.1878435-04-	.2500000 01
.1890803-02	.1793944	02	.6891762-12	.1738391-03-	.3005310-04-	.2250000 01
.2427839-02	.1793944	02	.2264665-11	.2780304-03-	.4806769-04-	.2000000 01
.3117407-02	.1793944	02	.7436950-11	.4444939-03-	.7685134-04-	.1750000 01
.4002829-02	.1793944	02	.2440185-10	.7102634-03-	.1228109-03-	.1500000 01
.5139734-02	.1793944	02	.7998058-10	.1134202-02-	.1961322-03-	.1250000 01
.6599550-02	.1793944	02	.2617869-09	.1809667-02-	.3129752-03-	.1000000 01
.8473989-02	.1793944	02	.8553483-09	.2884302-02-	.4989083-03-	.7500000 00
.1088082-01	.1793944	02	.2788379-08	.4590754-02-	.7942432-03-	.5000000 00
.1397124-01	.1793943	02	.9063468-08	.7293872-02-	.1262248-02-	.2500000 00
.1793942-01	.1793942	02	.2935024-07	.1156229-01-	.2001633-02	.0000000-39
.2303464-01	.1793940	02	.9458941-07	.1827508-01-	.3165223-02	.2500000 00
.2957697-01	.1793934	02	.3029671-06	.2877669-01-	.4987246-02	.5000000 00
.3797726-01	.1793919	02	.9627447-06	.4509424-01-	.7821946-02	.7500000 00
.4876277-01	.1793882	02	.3028413-05	.7022564-01-	.1219568-01	.1000000 01
.6260951-01	.1793793	02	.9402786-05	.1084885 00-	.1887208-01	.1250000 01
.8038259-01	.1793578	02	.2870970-04	.1658712 00-	.2892315-01	.1500000 01
.1031843 00	.1793074	02	.8579587-04	.2502283 00-	.4378465-01	.1750000 01
.1324058 00	.1791918	02	.2494083-03	.3709766 00-	.6524730-01	.2000000 01
.1697689 00	.1789351	02	.6997329-03	.5376547 00-	.9529163-01	.2250000 01
.2173209 00	.1783879	02	.1875391-02	.7563420 00-	.1356167 00	.2500000 01
.2773146 00	.1772814	02	.4738285-02	.1022690 01-	.1866676 00	.2750000 01
.3518796 00	.1751906	02	.1109147-01	.1310799 01-	.2460168 00	.3000000 01
.4424894 00	.1715718	02	.2351333-01	.1559448 01-	.3062635 00	.3250000 01
.5496519 00	.1659805	02	.4381565-01	.1662592 01-	.3533731 00	.3500000 01
.6740457 00	.1585204	02	.6908297-01	.1479183 01-	.3674593 00	.3750000 01
.8203568 00	.1502536	02	.8851765-01	.8827766 00-	.3285667 00	.4000000 01
.1001192 01	.1428125	02	.9337433-01-	.1403761 00-	.2285036 00	.4250000 01
.1230262 01	.1366698	02	.1087501 00-	.1383314 01-	.8464952-01	.4500000 01
.1496570 01	.1294787	02	.2090819 00-	.2411180 01	.5677663-01	.4750000 01
.1744842 01	.1175666	02	.4430801 00-	.2766876 01	.1420506 00	.5000000 01
.1909878 01	.1002212	02	.7278310 00-	.2315715 01	.1475510 00	.5250000 01
.1980315 01	.8093097	01	.9191014 00-	.1408101 01	.9818970-01	.5500000 01
.1997674 01	.6358162	01	.9872436 00-	.5979226 00	.4325030-01	.5750000 01
.1999873 01	.4957191	01	.9990845 00-	.1669576 00	.1217855-01	.6000000 01
.1999997 01	.3860904	01	.9999753 00-	.2816588-01	.2044430-02	.6250000 01
.2000000 01	.3006879	01	.9999998 00-	.2550175-02	.1831745-03	.6500000 01
.2000000 01	.2341760	01	.9999999 00-	.1060503-03	.7515963-05	.6750000 01
.2000000 01	.1823765	01	.1000000 01-	.1659620-05	.1159288-06	.7000000 01
.2000000 01	.1420349	01	.9999999 00-	.7562477-08	.5209752-09	.7250000 01
.2000000 01	.1106169	01	.1000000 01-	.7250453-11	.4932493-12	.7500000 01
.2000000 01	.8614855	00	.1000000 01	.0000000-39	.0000000-39	.7750000 01
.2000000 01	.6709256	00	.1000000 01	.0000000-39	.0000000-39	.8000000 01

.2000000 01 .5225173 00 .1000000 01 .0000000-39 .0000000-39 .8250000 01
.2000000 01 .4069369 00 .1000000 01 .0000000-39 .0000000-39 .8500000 01
.2000000 01 .3169228 00 .1000000 01 .0000000-39 .0000000-39 .8750000 01
.2000000 01 .2468197 00 .1000000 01 .0000000-39 .0000000-39 .9000000 01
.2000000 01 .1922234 00 .1000000 01 .0000000-39 .0000000-39 .9250000 01
.2000000 01 .1497037 00 .1000000 01 .0000000-39 .0000000-39 .9500000 01
.2000000 01 .1165894 00 .1000000 01 .0000000-39 .0000000-39 .9750000 01
.2000000 01 .9079991-01 .1000000 01 .0000000-39 .0000000-39 .1000000 02
.2000000 01 .7071504-01 .1000000 01 .0000000-39 .0000000-39 .1025000 02
.2000000 01 .5507293-01 .1000000 01 .0000000-39 .0000000-39 .1050000 02
.2000000 01 .4289084-01 .1000000 01 .0000000-39 .0000000-39 .1075000 02
.2000000 01 .3340342-01 .1000000 01 .0000000-39 .0000000-39 .1100000 02
.2000000 01 .2601461-01 .1000000 01 .0000000-39 .0000000-39 .1125000 02
.2000000 01 .2026020-01 .1000000 01 .0000000-39 .0000000-39 .1150000 02
.2000000 01 .1577866-01 .1000000 01 .0000000-39 .0000000-39 .1175000 02
.2000000 01 .1228843-01 .1000000 01 .0000000-39 .0000000-39 .1200000 02
.2000000 01 .9570240-02 .1000000 01 .0000000-39 .0000000-39 .1225000 02
.2000000 01 .7453311-02 .1000000 01 .0000000-39 .0000000-39 .1250000 02
.2000000 01 .5804644-02 .1000000 01 .0000000-39 .0000000-39 .1275000 02
.2000000 01 .4520661-02 .1000000 01 .0000000-39 .0000000-39 .1300000 02

DESIGNATION	NP	RIND.	ENERGY	V(0)	LAMBDA
3 P 1/2	.2000000	01-	.3737920	03 .2221389 02	.7411404 00

ALPHA S	.4297465-02	.8968821 00-	.5092837 02	.1247642 04-	.1958211 05
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39
BETA S	.1114544-01-	.7718286 00	.2324352 02-	.4356497 03	.5848952 04
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39

R TIMES	V(R)	V(R)	INTEGRAL	F	G	RHO
.4068616-03	.2221389 02	.1051925-08	.4313875-02	.1113131-01-	.4000000 01	
.5224198-03	.2221386 02	.1956087-08	.5197616-02	.1339239-01-	.3750000 01	
.6707989-03	.2221381 02	.3637154-08	.6264302-02	.1611111-01-	.3500000 01	
.8613199-03	.2221373 02	.6762328-08	.7552832-02	.1937919-01-	.3250000 01	
.1105952-02	.2221363 02	.1257134-07	.9110919-02	.2330626-01-	.3000000 01	
.1420060-02	.2221348 02	.2336703-07	.1099738-01	.2802304-01-	.2750000 01	
.1823375-02	.2221326 02	.4342552-07	.1328511-01	.3368504-01-	.2500000 01	
.2341226-02	.2221294 02	.8068328-07	.1606513-01	.4047656-01-	.2250000 01	
.3006132-02	.2221248 02	.1498619-06	.1945198-01	.4861503-01-	.2000000 01	
.3859833-02	.2221181 02	.2782487-06	.2359116-01	.5835541-01-	.1750000 01	
.4955908-02	.2221084 02	.5163751-06	.2866943-01	.6999424-01-	.1500000 01	
.6363111-02	.2220944 02	.9577092-06	.3492925-01	.8387258-01-	.1250000 01	
.8169654-02	.2220742 02	.1774893-05	.4268907-01	.1003768 00-	.1000000 01	
.1048867-01	.2220451 02	.3286256-05	.5237209-01	.1199352 00-	.7500000 00	
.1346517-01	.2220031 02	.6077555-05	.6454688-01	.1430077 00-	.5000000 00	
.1728491-01	.2219427 02	.1122405-04	.7998438-01	.1700639 00-	.2500000 00	
.2218559-01	.2218559 02	.2069432-04	.9973702-01	.2015442 00	.0000000-39	
.2847086-01	.2217313 02	.3808240-04	.1252459 00	.2377936 00	.2500000 00	
.3652791-01	.2215530 02	.6993281-04	.1584805 00	.2789579 00	.5000000 00	
.4684884-01	.2212983 02	.1281397-03	.2021099 00	.3248263 00	.7500000 00	
.6005640-01	.2209352 02	.2343078-03	.2596876 00	.3746059 00	.1000000 01	
.7693363-01	.2204186 02	.4277411-03	.3357991 00	.4266151 00	.1250000 01	
.9845574-01	.2196845 02	.7802286-03	.4360542 00	.4778983 00	.1500000 01	
.1258195 00	.2186416 02	.1423569-02	.5666897 00	.5237985 00	.1750000 01	
.1604599 00	.2171589 02	.2600209-02	.7333675 00	.5575902 00	.2000000 01	
.2040326 00	.2150488 02	.4751495-02	.9385241 00	.5703931 00	.2250000 01	
.2583299 00	.2120502 02	.8650337-02	.1176461 01	.5517421 00	.2500000 01	
.3250928 00	.2078249 02	.1552878-01	.1425573 01	.4913545 00	.2750000 01	
.4057432 00	.2020077 02	.2697390-01	.1638371 01	.3826226 00	.3000000 01	
.5012781 00	.1943667 02	.4404619-01	.1733102 01	.2278606 00	.3250000 01	
.6129917 00	.1851075 02	.6504087-01	.1596312 01	.4394427-01	.3500000 01	
.7448655 00	.1751756 02	.8310085-01	.1111107 01-	.1351847 00	.3750000 01	
.9067505 00	.1660772 02	.9004765-01	.2235778 00-	.2642738 00	.4000000 01	
.1112383 01	.1586730 02	.9546046-01-	.9635523 00-	.3042552 00	.4250000 01	
.1363365 01	.1514562 02	.1498140 00-	.2132470 01-	.2472187 00	.4500000 01	
.1625739 01	.1406540 02	.3186847 00-	.2834481 01-	.1310655 00	.4750000 01	
.1835593 01	.1236813 02	.5880029 00-	.2758577 01-	.2140207-01	.5000000 01	
.1951556 01	.1024083 02	.8341709 00-	.2006144 01	.3397225-01	.5250000 01	
.1991543 01	.8138985 01	.9610480 00-	.1059399 01	.3573408-01	.5500000 01	
.1999242 01	.6363151 01	.9953775 00-	.3851373 00	.1741316-01	.5750000 01	
.1999970 01	.4957433 01	.9997655 00-	.8971782-01	.4752166-02	.6000000 01	
.1999999 01	.3860909 01	.9999959 00-	.1215836-01	.7086307-03	.6250000 01	
.2000000 01	.3006879 01	.1000000 01-	.8400033-03	.5208215-04	.6500000 01	
.2000000 01	.2341760 01	.1000000 01-	.2490032-04	.1607811-05	.6750000 01	
.2000000 01	.1823765 01	.1000000 01-	.2541223-06	.1685351-07	.7000000 01	
.2000000 01	.1420349 01	.1000000 01-	.6738249-09	.4550235-10	.7250000 01	
.2000000 01	.1106169 01	.1000000 01-	.3262844-12	.2233618-13	.7500000 01	
.2000000 01	.8614855 00	.1000000 01	.0000000-39	.0000000-39	.7750000 01	
.2000000 01	.6709256 00	.1000000 01	.0000000-39	.0000000-39	.8000000 01	

•2000000 01	•5225173 00	•1000000 01	•0000000-39	•0000000-39	•8250000 01
•2000000 01	•4069369 00	•1000000 01	•0000000-39	•0000000-39	•8500000 01
•2000000 01	•3169228 00	•1000000 01	•0000000-39	•0000000-39	•8750000 01
•2000000 01	•2468197 00	•1000000 01	•0000000-39	•0000000-39	•9000000 01
•2000000 01	•1922234 00	•1000000 01	•0000000-39	•0000000-39	•9250000 01
•2000000 01	•1497037 00	•1000000 01	•0000000-39	•0000000-39	•9500000 01
•2000000 01	•1165894 00	•1000000 01	•0000000-39	•0000000-39	•9750000 01
•2000000 01	•9079991-01	•1000000 01	•0000000-39	•0000000-39	•1000000 02
•2000000 01	•7071504-01	•1000000 01	•0000000-39	•0000000-39	•1025000 02
•2000000 01	•5507293-01	•1000000 01	•0000000-39	•0000000-39	•1050000 02
•2000000 01	•4289084-01	•1000000 01	•0000000-39	•0000000-39	•1075000 02
•2000000 01	•3340342-01	•1000000 01	•0000000-39	•0000000-39	•1100000 02
•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	BIND.	ENERGY	V(0)	LAMBDA
3 S 1/2	•2000000	01-	•3994825	03 •2243225	02 •7411404

ALPHA S •3226278-01- •3605650 01 •1361550 03- •2895363 04 •4226816 05
 •0000000-39 •0000000-39 •0000000-39 •0000000-39 •0000000-39

BETA S -•1243990-01 •9665824 00- •3127055 02 •6137210 03- •8520528 04
 •0000000-39 •0000000-39 •0000000-39 •0000000-39 •0000000-39

R	TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
•4108610-03	•2243225	02	•8797382-08	•3219679-01-	•1242221-01-	•4000000 01
•5275491-03	•2243196	02	•1634999-07	•3872827-01-	•1494485-01-	•3750000 01
•6773738-03	•2243154	02	•3037973-07	•4657704-01-	•1797771-01-	•3500000 01
•8697416-03	•2243093	02	•5643178-07	•5600455-01-	•2162286-01-	•3250000 01
•1116727-02	•2243005	02	•1047856-06	•6732188-01-	•2600217-01-	•3000000 01
•1433824-02	•2242878	02	•1944784-06	•8089781-01-	•3126082-01-	•2750000 01
•1840915-02	•2242694	02	•3607229-06	•9716758-01-	•3757123-01-	•2500000 01
•2363502-02	•2242429	02	•6685481-06	•1166418 00-	•4513734-01-	•2250000 01
•3034279-02	•2242046	02	•1237800-05	•1399146 00-	•5419915-01-	•2000000 01
•3895132-02	•2241494	02	•2288766-05	•1676699 00-	•6503710-01-	•1750000 01
•4999677-02	•2240700	02	•4224974-05	•2006829 00-	•7797578-01-	•1500000 01
•6416446-02	•2239560	02	•7782339-05	•2398135 00-	•9338616-01-	•1250000 01
•8232870-02	•2237926	02	•1429527-04	•2859857 00-	•1116847 00-	•1000000 01
•1056020-01	•2235594	02	•2616530-04	•3401430 00-	•1333267 00-	•7500000 00
•1353944-01	•2232276	02	•4767229-04	•4031675 00-	•1587916 00-	•5000000 00
•1734843-01	•2227583	02	•8634542-04	•4757421 00-	•1885523 00-	•2500000 00
•2220988-01	•2220989	02	•1552044-03	•5581291 00-	•2230242 00	•0000000-39
•2840011-01	•2211803	02	•2762486-03	•6498274 00-	•2624807 00	•2500000 00
•3625787-01	•2199151	02	•4854909-03	•7490662 00-	•3069229 00	•5000000 00
•4619246-01	•2181978	02	•8393148-03	•8520866 00-	•3558875 00	•7500000 00
•5869045-01	•2159101	02	•1420411-02	•9521810 00-	•4081779 00	•1000000 01
•7432213-01	•2129365	02	•2338169-02	•1038511 01-	•4615101 00	•1250000 01
•9375334-01	•2091920	02	•3712540-02	•1094852 01-	•5120906 00	•1500000 01
•1177783 00	•2046680	02	•5623849-02	•1098654 01-	•5541870 00	•1750000 01
•1474030 00	•1994884	02	•8013370-02	•1021262 01-	•5798436 00	•2000000 01
•1840198 00	•1939555	02	•1055682-01	•8307369 00-	•5790273 00	•2250000 01
•2296830 00	•1885353	02	•1264728-01	•4994594 00-	•5406652 00	•2500000 01
•2873741 00	•1837122	02	•1381839-01	•1887081-01-	•4551671 00	•2750000 01
•3608886 00	•1796759	02	•1498916-01-	•5777774 00-	•3189148 00	•3000000 01
•4538112 00	•1759618	02	•2011698-01-	•1189144 01-	•1404107 00	•3250000 01
•5676962 00	•1714294	02	•3552866-01-	•1631186 01	•5411335-01	•3500000 01
•7017538 00	•1650367	02	•6267887-01-	•1662671 01	•2204945 00	•3750000 01
•8579296 00	•1571353	02	•8814584-01-	•1081526 01	•3078995 00	•4000000 01
•1048754 01	•1495967	02	•9537236-01	•1113492 00	•2834774 00	•4250000 01
•1289577 01	•1432591	02	•1151825 00	•1571513 01	•1605633 00	•4500000 01
•1563104 01	•1352350	02	•2421201 00	•2674033 01	•5490671-02	•4750000 01
•1800943 01	•1213466	02	•5124767 00	•2884089 01-	•9947816-01	•5000000 01
•1940311 01	•1018182	02	•7963336 00	•2199546 01-	•1165232 00	•5250000 01
•1989666 01	•8131314	01	•9519302 00	•1179350 01-	•7485984-01	•5500000 01
•1999109 01	•6362728	01	•9944680 00	•4248326 00-	•2951320-01	•5750000 01
•1999968 01	•4957426	01	•9997381 00	•9591409-01-	•6971628-02	•6000000 01
•1999999 01	•3860909	01	•9999959 00	•1231221-01-	•9152070-03	•6250000 01
•2000000 01	•3006879	01	•1000000 01	•7853183-03-	•5899595-04	•6500000 01
•2000000 01	•2341760	01	•1000000 01	•2084929-04-	•1571458-05	•6750000 01
•2000000 01	•1823765	01	•1000000 01	•1836526-06-	•1382836-07	•7000000 01
•2000000 01	•1420349	01	•1000000 01	•4017164-09-	•3015705-10	•7250000 01
•2000000 01	•1106169	01	•1000000 01	•1521241-12-	•1137495-13	•7500000 01
•2000000 01	•8614855	00	•1000000 01	•0000000-39	•0000000-39	•7750000 01
•2000000 01	•6709256	00	•1000000 01	•0000000-39	•0000000-39	•8000000 01

•2000000 01 •5225173 00 •1000000 01 •0000000-39 •0000000-39 •8250000 01
•2000000 01 •4069369 00 •1000000 01 •0000000-39 •0000000-39 •8500000 01
•2000000 01 •3169228 00 •1000000 01 •0000000-39 •0000000-39 •8750000 01
•2000000 01 •2468197 00 •1000000 01 •0000000-39 •0000000-39 •9000000 01
•2000000 01 •1922234 00 •1000000 01 •0000000-39 •0000000-39 •9250000 01
•2000000 01 •1497037 00 •1000000 01 •0000000-39 •0000000-39 •9500000 01
•2000000 01 •1165894 00 •1000000 01 •0000000-39 •0000000-39 •9750000 01
•2000000 01 •9079991-01 •1000000 01 •0000000-39 •0000000-39 •1000000 02
•2000000 01 •7071504-01 •1000000 01 •0000000-39 •0000000-39 •1025000 02
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•2000000 01 •3340342-01 •1000000 01 •0000000-39 •0000000-39 •1100000 02
•2000000 01 •2601461-01 •1000000 01 •0000000-39 •0000000-39 •1125000 02
•2000000 01 •2026020-01 •1000000 01 •0000000-39 •0000000-39 •1150000 02
•2000000 01 •1577866-01 •1000000 01 •0000000-39 •0000000-39 •1175000 02
•2000000 01 •1228843-01 •1000000 01 •0000000-39 •0000000-39 •1200000 02
•2000000 01 •9570240-02 •1000000 01 •0000000-39 •0000000-39 •1225000 02
•2000000 01 •7453311-02 •1000000 01 •0000000-39 •0000000-39 •1250000 02
•2000000 01 •5804644-02 •1000000 01 •0000000-39 •0000000-39 •1275000 02
•2000000 01 •4520661-02 •1000000 01 •0000000-39 •0000000-39 •1300000 02

DESIGNATION	NP	RIND.	ENERGY	V(0)	LAMBDA
4 F 7/2	.8000000	01-	.2689193	02 .6538696	01 .3943259

ALPHA S .6085995-14-.1362158-12 .1884564-11-.1834766-10 .1415836-09
.0000000-39 .0000000-39 .0000000-39 .0000000-39 .0000000-39

BETA S -.5143776-15 .1416756-13-.2066013-12 .2123210-11-.1685795-10
.0000000-39 .0000000-39 .0000000-39 .0000000-39 .0000000-39

R	TIMES	V(R)	V(R)	INTEGRAL	F	G	RHO
.1197604-03		.6538697	01	.7682885-34	.6083501-14-.5141182-15-	.4000000	01
.1537754-03		.6538697	01	.7083914-33	.1630185-13-.1377636-14-	.3750000	01
.1974515-03		.6538697	01	.6531424-32	.4368233-13-.3691378-14-	.3500000	01
.2535328-03		.6538697	01	.6021423-31	.1170459-12-.9890535-14-	.3250000	01
.3255425-03		.6538697	01	.5550702-30	.3136052-12-.2649854-13-	.3000000	01
.4180049-03		.6538697	01	.5116133-29	.8401941-12-.7098829-13-	.2750000	01
.5367289-03		.6538697	01	.4714824-28	.2250801-11-.1901531-12-	.2500000	01
.6891736-03		.6538697	01	.4344092-27	.6028988-11-.5092822-12-	.2250000	01
.8849163-03		.6538697	01	.4001444-26	.1614684-10-.1363749-11-	.2000000	01
.1136255-02		.6538697	01	.3684562-25	.4323625-10-.3650974-11-	.1750000	01
.1458980-02		.6538697	01	.3391284-24	.1157451-09-.9771309-11-	.1500000	01
.1873368-02		.6538697	01	.3119591-23	.3097571-09-.2614143-10-	.1250000	01
.2405452-02		.6538697	01	.2867591-22	.8286393-09-.6990228-10-	.1000000	01
.3088662-02		.6538697	01	.2633501-21	.2215572-08-.1868005-09-	.7500000	00
.3965920-02		.6538697	01	.2415644-20	.5919965-08-.4987831-09-	.5000000	00
.5092342-02		.6538697	01	.2212429-19	.1580463-07-.1330434-08-	.2500000	00
.6538696-02		.6538697	01	.2022349-18	.4214805-07-.3544020-08	.0000000-39	
.8395852-02		.6538697	01	.1843970-17	.1122447-06-.9424515-08	.2500000	00
.1078049-01		.6538697	01	.1675936-16	.2983870-06-.2500789-07	.5000000	00
.1384242-01		.6538697	01	.1516967-15	.7914121-06-.6617461-07	.7500000	00
.1777402-01		.6538697	01	.1365883-14	.2092945-05-.1744920-06	.1000000	01
.2282229-01		.6538697	01	.1221619-13	.5514340-05-.4580578-06	.1250000	01
.2930440-01		.6538697	01	.1083277-12	.1445981-04-.1195679-05	.1500000	01
.3762760-01		.6538697	01	.9501780-12	.3768748-04-.3099005-05	.1750000	01
.4831479-01		.6538697	01	.8219480-11	.9747186-04-.7960717-05	.2000000	01
.6203742-01		.6538697	01	.6986084-10	.2496335-03-.2022164-04	.2250000	01
.7965762-01		.6538697	01	.5806787-09	.6314349-03-.5064918-04	.2500000	01
.1022824 00		.6538697	01	.4692542-08	.1572291-02-.1246380-03	.2750000	01
.1313332 00		.6538697	01	.3660196-07	.3838398-02-.2999668-03	.3000000	01
.1686351 00		.6538695	01	.2731323-06	.9141413-02-.7021068-03	.3250000	01
.2165313 00		.6538680	01	.1929119-05	.2111004-01-.1587615-02	.3500000	01
.2780286 00		.6538607	01	.1273198-04	.4692398-01-.3441644-02	.3750000	01
.3569760 00		.6538244	01	.7733567-04	.9951599-01-.7088931-02	.4000000	01
.4582533 00		.6536634	01	.4246816-03	.1992481 00-.1372128-01	.4250000	01
.5878318 00		.6530224	01	.2066014-02	.3720352 00-.2461815-01	.4500000	01
.7522109 00		.6507902	01	.8711745-02	.6390843 00-.4033022-01	.4750000	01
.9559715 00		.6441287	01	.3113438-01	.9947059 00-.5946554-01	.5000000	01
.1195730 01		.6274615	01	.9217787-01	.1377482 01-.7763363-01	.5250000	01
.1451587 01		.5932308	01	.2213534 00	.1662753 01-.8767199-01	.5500000	01
.1685399 01		.5364259	01	.4262157 00	.1718155 01-.8362761-01	.5750000	01
.1857375 01		.4603973	01	.6625863 00	.1496574 01-.6652243-01	.6000000	01
.1952625 01		.3769454	01	.8544527 00	.1073376 01-.4356017-01	.6250000	01
.1989442 01		.2991007	01	.9581318 00	.6104597 00-.2269971-01	.6500000	01
.1998571 01		.2340087	01	.9927517 00	.2632985 00-.8977053-02	.6750000	01
.1999896 01		.1823670	01	.9993281 00	.8185880-01-.2563606-02	.7000000	01
.1999996 01		.1420347	01	.9999713 00	.1713785-01-.4956929-03	.7250000	01
.2000000 01		.1106169	01	.9999996 00	.2204766-02-.5930110-04	.7500000	01
.2000000 01		.8614854	00	.1000000 01	.1547530-03-.3900650-05	.7750000	01
.2000000 01		.6709255	00	.1000000 01	.5063446-05-.1206907-06	.8000000	01

•2000000 01	•5225173 00	•1000000 01	•6269425-07-	•1426330-08	•8250000 01
•2000000 01	•4069369 00	•1000000 01	•2244978-09-	•4915789-11	•8500000 01
•2000000 01	•3169228 00	•1000000 01	•0000000-39	•0000000-39	•8750000 01
•2000000 01	•2468197 00	•1000000 01	•0000000-39	•0000000-39	•9000000 01
•2000000 01	•1922234 00	•1000000 01	•0000000-39	•0000000-39	•9250000 01
•2000000 01	•1497037 00	•1000000 01	•0000000-39	•0000000-39	•9500000 01
•2000000 01	•1165894 00	•1000000 01	•0000000-39	•0000000-39	•9750000 01
•2000000 01	•9079991-01	•1000000 01	•0000000-39	•0000000-39	•1000000 02
•2000000 01	•7071504-01	•1000000 01	•0000000-39	•0000000-39	•1025000 02
•2000000 01	•5507293-01	•1000000 01	•0000000-39	•0000000-39	•1050000 02
•2000000 01	•4289084-01	•1000000 01	•0000000-39	•0000000-39	•1075000 02
•2000000 01	•3340342-01	•1000000 01	•0000000-39	•0000000-39	•1100000 02
•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	BIND.	ENERGY	V(0)	LAMBDA	
4 F 5/2	.6000000	01	.2769234	02	.6652467 01	.2923917 01

ALPHA S	.1161379-11	.3715972-09	.8547690-08	.1199736-06	.1177084-05
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39
BETA S	.1024788-10	.2627305-09	.4102078-08	.4448890-07	.3785845-06
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39

R	TIMES	V(R)	V(R)	INTEGRAL	F	G	RHO
.	1218442-03	.6652469	01	.2843047-27	.1168182-11	.1024307-10	.4000000 01
.	1564511-03	.6652469	01	.1574678-26	.2430459-11	.2127317-10	.3750000 01
.	2008872-03	.6652469	01	.8721359-26	.5059034-11	.4417923-10	.3500000 01
.	2579442-03	.6652469	01	.4829924-25	.1053671-10	.9174510-10	.3250000 01
.	3312069-03	.6652469	01	.2674593-24	.2196195-10	.1905112-09	.3000000 01
.	4252781-03	.6652469	01	.1480897-23	.4582010-10	.3955700-09	.2750000 01
.	5460679-03	.6652469	01	.8198377-23	.9571359-10	.8212615-09	.2500000 01
.	7011650-03	.6652469	01	.4537836-22	.2002469-09	.1704835-08	.2250000 01
.	9003137-03	.6652469	01	.2511104-21	.4197687-09	.3538420-08	.2000000 01
.	1156026-02	.6652469	01	.1389140-20	.8821144-09	.7342467-08	.1750000 01
.	1484366-02	.6652469	01	.7681675-20	.1859420-08	.1523187-07	.1500000 01
.	1905964-02	.6652469	01	.4245678-19	.3934501-08	.3158703-07	.1250000 01
.	2447306-02	.6652469	01	.2345092-18	.8364527-08	.6547335-07	.1000000 01
.	3142404-02	.6652469	01	.1294254-17	.1788430-07	.1356326-06	.7500000 00
.	4034926-02	.6652469	01	.7135633-17	.3850114-07	.2807596-06	.5000000 00
.	5180947-02	.6652469	01	.3929015-16	.8355573-07	.5806090-06	.2500000 00
.	6652468-02	.6652469	01	.2159892-15	.1830293-06	.1199202-05	.0000000-39
.	8541938-02	.6652469	01	.1184973-14	.4051521-06	.2472913-05	.2500000 00
.	1096807-01	.6652469	01	.6485091-14	.9071882-06	.5089070-05	.5000000 00
.	1408327-01	.6652469	01	.3538608-13	.2056098-05	.1044560-04	.7500000 00
.	1808328-01	.6652469	01	.1924083-12	.4717760-05	.2136868-04	.1000000 01
.	2321939-01	.6652469	01	.1042003-11	.1095444-04	.4352796-04	.1250000 01
.	2981429-01	.6652469	01	.5618368-11	.2571123-04	.8818474-04	.1500000 01
.	3828231-01	.6652469	01	.3015987-10	.6088742-04	.1774204-03	.1750000 01
.	4915545-01	.6652469	01	.1612747-09	.1451020-03	.3538144-03	.2000000 01
.	6311685-01	.6652469	01	.8603122-09	.3468243-03	.6977021-03	.2250000 01
.	8104364-01	.6652469	01	.4590246-08	.8280770-03	.1356373-02	.2500000 01
.	1040621 00	.6652469	01	.2458509-07	.1965506-02	.2589802-02	.2750000 01
.	1336183 00	.6652467	01	.1326435-06	.4612190-02	.4833949-02	.3000000 01
.	1715692 00	.6652460	01	.7216353-06	.1063161-01	.8769836-02	.3250000 01
.	2202981 00	.6652428	01	.3940106-05	.2389914-01	.1535651-01	.3500000 01
.	2828627 00	.6652295	01	.2131072-04	.5195357-01	.2573322-01	.3750000 01
.	3631728 00	.6651744	01	.1117484-03	.1081603 00	.4083730-01	.4000000 01
.	4661705 00	.6649568	01	.5524977-03	.2132088 00	.6060278-01	.4250000 01
.	5978585 00	.6641609	01	.2496762-02	.3928330 00	.8287396-01	.4500000 01
.	7646465 00	.6615490	01	.9995704-02	.6669887 00	.1027027 00	.4750000 01
.	9707359 00	.6540769	01	.3441675-01	.1027333 01	.1130039 00	.5000000 01
.	1211907 01	.6359508	01	.9911524-01	.1408920 01	.1074337 00	.5250000 01
.	1467149 01	.5995903	01	.2329720 00	.1684677 01	.8548857-01	.5500000 01
.	1697777 01	.5403654	01	.4409585 00	.1723899 01	.5515089-01	.5750000 01
.	1864991 01	.4622853	01	.6761136 00	.1485859 01	.2732639-01	.6000000 01
.	1955989 01	.3775949	01	.8629329 00	.1053277 01	.8789138-02	.6250000 01
.	1990422 01	.2992481	01	.9615081 00	.5910182 00	.5244047-03	.6500000 01
.	1998742 01	.2340287	01	.9935343 00	.2508666 00	.1126155-02	.6750000 01
.	1999912 01	.1823684	01	.9994230 00	.7648222-01	.6357909-03	.7000000 01
.	1999997 01	.1420347	01	.9999765 00	.1562603-01	.1728926-03	.7250000 01
.	2000000 01	.1106169	01	.9999997 00	.1949169-02	.2543047-04	.7500000 01
.	2000000 01	.8614854	00	.1000000 01	.1315300-03	.1904532-05	.7750000 01
.	2000000 01	.6709255	00	.1000000 01	.4091803-05	.6360078-07	.8000000 01

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•2000000 01 •1165894 00 •1000000 01 •0000000-39 •0000000-39 •9750000 01
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•2000000 01 •7071504-01 •1000000 01 •0000000-39 •0000000-39 •1025000 02
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•2000000 01 •7453311-02 •1000000 01 •0000000-39 •0000000-39 •1250000 02
•2000000 01 •5804644-02 •1000000 01 •0000000-39 •0000000-39 •1275000 02
•2000000 01 •4520661-02 •1000000 01 •0000000-39 •0000000-39 •1300000 02

DESIGNATION	NP	BIND. ENERGY	V(0)	LAMBDA
4 D 5/2	.6000000	01-.5139902	02 .7188504	.01

ALPHA S	.2648957-09-	.7988037-08	.1333186-06-	.1533110-05	.1357457-04
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39
BETA S	-.3002031-10	.9994846-09-	.1722290-07	.2031801-06-	.1826691-05
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
.1316621-03	.7188504	01	.1899074-24	.2647495-09-	.3000201-10- .4000000
.1690574-03	.7188504	01	.1051755-23	.5498284-09-	.6230678-10- .3750000
.2170740-03	.7188504	01	.5824535-23	.1141826-08-	.1293895-09- .3500000
.2787286-03	.7188504	01	.3225217-22	.2371089-08-	.2686799-09- .3250000
.3578946-03	.7188504	01	.1785670-21	.4923386-08-	.5578740-09- .3000000
.4595457-03	.7188504	01	.9884887-21	.1022207-07-	.1158222-08- .2750000
.5900683-03	.7188504	01	.5470794-20	.2122079-07-	.2404306-08- .2500000
.7576627-03	.7188504	01	.3026990-19	.4404701-07-	.4990142-08- .2250000
.9728582-03	.7188504	01	.1674250-18	.9140811-07-	.1035477-07- .2000000
.1249175-02	.7188504	01	.9256252-18	.1896452-06-	.2148053-07- .1750000
.1603972-02	.7188504	01	.5114469-17	.3933291-06-	.4454429-07- .1500000
.2059541-02	.7188504	01	.2823876-16	.8154304-06-	.9232869-07- .1250000
.2644503-02	.7188504	01	.1557685-15	.1689595-05-	.1912589-06- .1000000
.3395609-02	.7188504	01	.8581948-15	.3498453-05-	.3958890-06- .7500000
.4360048-02	.7188504	01	.4720798-14	.7237390-05-	.8186494-06- .5000000
.5598412-02	.7188504	01	.2591651-13	.1495515-04-	.1690732-05- .2500000
.7188504-02	.7188504	01	.1419136-12	.3085755-04-	.3486183-05 .0000000
.9230221-02	.7188504	01	.7745394-12	.6354977-04-	.7173440-05 .2500000
.1185184-01	.7188504	01	.4209523-11	.1305622-03-	.1472166-04 .5000000
.1521806-01	.7188504	01	.2275504-10	.2674092-03-	.3011064-04 .7500000
.1954038-01	.7188504	01	.1221575-09	.5455217-03-	.6132185-04 .1000000
.2509034-01	.7188504	01	.6500120-09	.1107238-02-	.1242037-03 .1250000
.3221664-01	.7188504	01	.3419877-08	.2232770-02-	.2498270-03 .1500000
.4136697-01	.7188504	01	.1773469-07	.4465091-02-	.4981119-03 .1750000
.5311622-01	.7188501	01	.9028706-07	.8834643-02-	.9821748-03 .2000000
.6820246-01	.7188488	01	.4489629-06	.1724357-01-	.1909648-02 .2250000
.8757309-01	.7188439	01	.2166604-05	.3307431-01-	.3647596-02 .2500000
.1124432 00	.7188257	01	.1006439-04	.6203870-01-	.6812201-02 .2750000
.1443671 00	.7187618	01	.4454060-04	.1130912 00-	.1236406-01 .3000000
.1853163 00	.7185493	01	.1853749-03	.1987461 00-	.2164169-01 .3250000
.2377326 00	.7178905	01	.7138372-03	.3332280 00-	.3618446-01 .3500000
.3044600 00	.7160216	01	.2491789-02	.5257016 00-	.5710970-01 .3750000
.3883458 00	.7112804	01	.7682893-02	.7655095 00-	.8381144-01 .4000000
.4913210 00	.7008320	01	.2024000-01	.9999232 00-	.1120490 00 .4250000
.6135158 00	.6815547	01	.4365684-01	.1116706 01-	.1324937 00 .4500000
.7548937 00	.6531112	01	.7316538-01	.9613554 00-	.1323996 00 .4750000
.9218623 00	.6211461	01	.9112734-01	.4197171 00-	.1025620 00 .5000000
.1131171 01	.5935843	01	.9407729-01-	.4494667 00-	.4661858-01 .5250000
.1390040 01	.5680779	01	.1443973 00-	.1337933 01	.1496539-01 .5500000
.1658929 01	.5280009	01	.3328303 00-	.1826411 01	.5484663-01 .5750000
.1862643 01	.4617033	01	.6266649 00-	.1707106 01	.6050224-01 .6000000
.1964260 01	.3791916	01	.8675107 00-	.1154234 01	.4245092-01 .6250000
.1994669 01	.2998864	01	.9736211 00-	.5551996 00	.2029615-01 .6500000
.1999601 01	.2341293	01	.9974182 00-	.1815102 00	.6456987-02 .6750000
.1999987 01	.1823753	01	.9998938 00-	.3777357-01	.1294582-02 .7000000
.2000000 01	.1420349	01	.9999985 00-	.4558345-02	.1501697-03 .7250000
.2000000 01	.1106169	01	.1000000 01-	.2807907-03	.8902857-05 .7500000
.2000000 01	.8614854	00	.9999999 00-	.7467896-05	.2285912-06 .7750000
.2000000 01	.6709255	00	.1000000 01-	.6884546-07	.2043830-08 .8000000

.2000000 01 .5225173 00 .9999999 00-.1654320-09 .4787251-11 .8250000 01
.2000000 01 .4069369 00 .1000000 01-.7253746-13 .2055517-14 .8500000 01
.2000000 01 .3169228 00 .1000000 01 .0000000-39 .0000000-39 .8750000 01
.2000000 01 .2468197 00 .1000000 01 .0000000-39 .0000000-39 .9000000 01
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.2000000 01 .1497037 00 .1000000 01 .0000000-39 .0000000-39 .9500000 01
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.2000000 01 .9079991-01 .1000000 01 .0000000-39 .0000000-39 .1000000 02
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.2000000 01 .4289084-01 .1000000 01 .0000000-39 .0000000-39 .1075000 02
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.2000000 01 .2026020-01 .1000000 01 .0000000-39 .0000000-39 .1150000 02
.2000000 01 .1577866-01 .1000000 01 .0000000-39 .0000000-39 .1175000 02
.2000000 01 .1228843-01 .1000000 01 .0000000-39 .0000000-39 .1200000 02
.2000000 01 .9570240-02 .1000000 01 .0000000-39 .0000000-39 .1225000 02
.2000000 01 .7453311-02 .1000000 01 .0000000-39 .0000000-39 .1250000 02
.2000000 01 .5804644-02 .1000000 01 .0000000-39 .0000000-39 .1275000 02
.2000000 01 .4520661-02 .1000000 01 .0000000-39 .0000000-39 .1300000 02

DESIGNATION	NP	BIND.	ENERGY	V(0)	LAMBDA	
4 D 3/2	.4000000	01-	.5445149	02	.7493818	01
					.1883956	01

ALPHA S	.6492194-07	.1872851-04-	.5976189-03	.1022647-01-	.1194196	00
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39	
BETA S	.3755924-06-	.1379141-04	.2715150-03-	.3601134-02	.3615031	-01
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39	

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO		
.1372541-03	.7493819	01	.5576409-18	.6526477-07	.3753399-06-	.4000000	01
.1762377-03	.7493819	01	.1836204-17	.1046824-06	.6010209-06-	.3750000	01
.2262937-03	.7493819	01	.6045912-17	.1679773-06	.9623454-06-	.3500000	01
.2905669-03	.7493819	01	.1990507-16	.2696871-06	.1540785-05-	.3250000	01
.3730953-03	.7493819	01	.6552671-16	.4332779-06	.2466689-05-	.3000000	01
.4790638-03	.7493819	01	.2156812-15	.6967085-06	.3948542-05-	.2750000	01
.6151301-03	.7493819	01	.7097877-15	.1121545-05	.6319681-05-	.2500000	01
.7898427-03	.7493819	01	.2335314-14	.1807973-05	.1011280-04-	.2250000	01
.1014178-02	.7493819	01	.7681307-14	.2919693-05	.1617864-04-	.2000000	01
.1302230-02	.7493819	01	.2525590-13	.4725536-05	.2587481-04-	.1750000	01
.1672097-02	.7493819	01	.8300115-13	.7669662-05	.4136550-04-	.1500000	01
.2147015-02	.7493819	01	.2726107-12	.1249124-04	.6609615-04-	.1250000	01
.2756822-02	.7493819	01	.8946829-12	.2043080-04	.1055425-03-	.1000000	01
.3539829-02	.7493819	01	.2933428-11	.3359058-04	.1683878-03-	.7500000	00
.4545230-02	.7493819	01	.9606267-11	.5557158-04	.2683624-03-	.5000000	00
.5836191-02	.7493819	01	.3141061-10	.9261412-04	.4270973-03-	.2500000	00
.7493818-02	.7493819	01	.1025146-09	.1556636-03	.6785069-03	.0000000-39	
.9622252-02	.7493819	01	.3338134-09	.2641486-03	.1075435-02	.2500000	00
.1235522-01	.7493819	01	.1084010-08	.4529443-03	.1699551-02	.5000000	00
.1586441-01	.7493818	01	.3508902-08	.7852581-03	.2675733-02	.7500000	00
.2037030-01	.7493817	01	.1131719-07	.1376481-02	.4192245-02	.1000000	01
.2615598-01	.7493814	01	.3636017-07	.2438113-02	.6527564-02	.1250000	01
.3358490-01	.7493805	01	.1163780-06	.4357724-02	.1008310-01	.1500000	01
.4312374-01	.7493785	01	.3713281-06	.7841607-02	.1541689-01	.1750000	01
.5537159-01	.7493732	01	.1182835-05	.1416118-01	.2326481-01	.2000000	01
.7109730-01	.7493602	01	.3770455-05	.2555767-01	.3452064-01	.2250000	01
.9128679-01	.7493277	01	.1206109-04	.4585490-01	.5012253-01	.2500000	01
.1172019 00	.7492467	01	.3878831-04	.8126234-01	.7076690-01	.2750000	01
.1504493 00	.7490431	01	.1251888-03	.1411292 00	.9635916-01	.3000000	01
.1930490 00	.7485323	01	.4020032-03	.2378983 00	.1251623 00	.3250000	01
.2474615 00	.7472692	01	.1261645-02	.3846084 00	.1527883 00	.3500000	01
.3164680 00	.7442617	01	.3764997-02	.5872486 00	.1715516 00	.3750000	01
.4027068 00	.7375834	01	.1030550-01	.8293187 00	.1712243 00	.4000000	01
.5077667 00	.7242906	01	.2476348-01	.1050183 01	.1425404 00	.4250000	01
.6316118 00	.7016575	01	.4958980-01	.1131153 01	.8380641-01	.4500000	01
.7748973 00	.6704177	01	.7801143-01	.9197905 00	.7356967-02	.4750000	01
.9457239 00	.6372240	01	.9248547-01	.3193777 00-	.6117365-01	.5000000	01
.1161233 01	.6093592	01	.9643189-01-	.5808261 00-	.9497875-01	.5250000	01
.1424192 01	.5820348	01	.1604147 00-	.1447720 01-	.8484535-01	.5500000	01
.1688497 01	.5374120	01	.3667233 00-	.1869129 01-	.4843063-01	.5750000	01
.1879935 01	.4659895	01	.6618032 00-	.1679087 01-	.1409415-01	.6000000	01
.1970441 01	.3803848	01	.8867823 00-	.1093715 01	.2885759-02	.6250000	01
.1995884 01	.3000691	01	.9790033 00-	.5055087 00	.5082933-02	.6500000	01
.1999717 01	.2341429	01	.9981161 00-	.1578476 00	.2377313-02	.6750000	01
.1999992 01	.1823757	01	.9999304 00-	.3108268-01	.5732547-03	.7000000	01
.2000000 01	.1420349	01	.9999992 00-	.3503098-02	.7276754-04	.7250000	01
.2000000 01	.1106169	01	.1000000 01-	.1980269-03	.4433682-05	.7500000	01
.2000000 01	.8614854	00	.1000000 01-	.4722859-05	.1110778-06	.7750000	01
.2000000 01	.6709255	00	.1000000 01-	.3789291-07	.9220054-09	.8000000	01

•2000000	01	•5225173	00	•1000000	01-	•7630034-10	•1902485-11	•8250000	01
•2000000	01	•4069369	00	•1000000	01-	•2678137-13	•6792639-15	•8500000	01
•2000000	01	•3169228	00	•1000000	01	•0000000-39	•0000000-39	•8750000	01
•2000000	01	•2468197	00	•1000000	01	•0000000-39	•0000000-39	•9000000	01
•2000000	01	•1922234	00	•1000000	01	•0000000-39	•0000000-39	•9250000	01
•2000000	01	•1497037	00	•1000000	01	•0000000-39	•0000000-39	•9500000	01
•2000000	01	•1165894	00	•1000000	01	•0000000-39	•0000000-39	•9750000	01
•2000000	01	•9079991-01		•1000000	01	•0000000-39	•0000000-39	•1000000	02
•2000000	01	•7071504-01		•1000000	01	•0000000-39	•0000000-39	•1025000	02
•2000000	01	•5507293-01		•1000000	01	•0000000-39	•0000000-39	•1050000	02
•2000000	01	•4289084-01		•1000000	01	•0000000-39	•0000000-39	•1075000	02
•2000000	01	•3340342-01		•1000000	01	•0000000-39	•0000000-39	•1100000	02
•2000000	01	•2601461-01		•1000000	01	•0000000-39	•0000000-39	•1125000	02
•2000000	01	•2026020-01		•1000000	01	•0000000-39	•0000000-39	•1150000	02
•2000000	01	•1577866-01		•1000000	01	•0000000-39	•0000000-39	•1175000	02
•2000000	01	•1228843-01		•1000000	01	•0000000-39	•0000000-39	•1200000	02
•2000000	01	•9570240-02		•1000000	01	•0000000-39	•0000000-39	•1225000	02
•2000000	01	•7453311-02		•1000000	01	•0000000-39	•0000000-39	•1250000	02
•2000000	01	•5804644-02		•1000000	01	•0000000-39	•0000000-39	•1275000	02
•2000000	01	•4520661-02		•1000000	01	•0000000-39	•0000000-39	•1300000	02

DESIGNATION NP BIND. ENERGY V(0) LAMBDA
4 P 3/2 .4000000 01- 7271385 02 .7853933 01 .1883956 01

ALPHA S	.3355309-05-	.1564729-03	.3446764-02-	.4946847-01	.5246966 00
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39
BETA S	-.5799723-06	.2560015-04-	.5516408-03	.7806155-02-	.8204706-01
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39

R	TIME	V(R)	V(R)	INTEGRAL	F	G	RHO
•	1438498-03	• 7853933	01	• 4447667-16	• 3352444-05-	• 5795037-06-	• 4000000 01
•	1847068-03	• 7853934	01	• 1464288-15	• 5367896-05-	• 9279068-06-	• 3750000 01
•	2371682-03	• 7853933	01	• 4820305-15	• 8594422-05-	• 1485676-05-	• 3500000 01
•	3045300-03	• 7853934	01	• 1586562-14	• 1375913-04-	• 2378525-05-	• 3250000 01
•	3910243-03	• 7853933	01	• 5221057-14	• 2202499-04-	• 3807540-05-	• 3000000 01
•	5020851-03	• 7853934	01	• 1717730-13	• 3525146-04-	• 6094263-05-	• 2750000 01
•	6446900-03	• 7853933	01	• 5649596-13	• 5641013-04-	• 9752613-05-	• 2500000 01
•	8277984-03	• 7853934	01	• 1857408-12	• 9024698-04-	• 1560350-04-	• 2250000 01
•	1062914-02	• 7853933	01	• 6103457-12	• 1443358-03-	• 2495720-04-	• 2000000 01
•	1364809-02	• 7853934	01	• 2004289-11	• 2307508-03-	• 3990313-04-	• 1750000 01
•	1752449-02	• 7853933	01	• 6576270-11	• 3687150-03-	• 6376887-04-	• 1500000 01
•	2250190-02	• 7853934	01	• 2155412-10	• 5887817-03-	• 1018455-03-	• 1250000 01
•	2889300-02	• 7853933	01	• 7054712-10	• 9394043-03-	• 1625286-03-	• 1000000 01
•	3709935-02	• 7853934	01	• 2304919-09	• 1497207-02-	• 2591047-03-	• 7500000 00
•	4763650-02	• 7853933	01	• 7513458-09	• 2382913-02-	• 4125270-03-	• 5000000 00
•	6116648-02	• 7853932	01	• 2442025-08	• 3785821-02-	• 6556923-03-	• 2500000 00
•	7853928-02	• 7853929	01	• 7907235-08	• 6000897-02-	• 1039949-02	• 0000000-39
•	1008464-01	• 7853924	01	• 2547994-07	• 9484006-02-	• 1644842-02	• 2500000 00
•	1294890-01	• 7853907	01	• 8159707-07	• 1493207-01-	• 2592374-02	• 5000000 00
•	1662663-01	• 7853867	01	• 2592304-06	• 2339521-01-	• 4067244-02	• 7500000 00
•	2134875-01	• 7853768	01	• 8151660-06	• 3642503-01-	• 6344230-02	• 1000000 01
•	2741150-01	• 7853527	01	• 2529803-05	• 5625286-01-	• 9822637-02	• 1250000 01
•	3519447-01	• 7852950	01	• 7719233-05	• 8596600-01-	• 1506423-01	• 1500000 01
•	4518280-01	• 7851595	01	• 2304629-04	• 1295961 00-	• 2282356-01	• 1750000 01
•	5799293-01	• 7848492	01	• 6690251-04	• 1919344 00-	• 3404542-01	• 2000000 01
•	7439914-01	• 7841614	01	• 1873101-03	• 2777289 00-	• 4978051-01	• 2250000 01
•	9535223-01	• 7826990	01	• 5004307-03	• 3897184 00-	• 7093853-01	• 2500000 01
•	1219740 00	• 7797538	01	• 1258153-02	• 5248222 00-	• 9776928-01	• 2750000 01
•	1555070 00	• 7742242	01	• 2922233-02	• 6680640 00-	• 1289806 00	• 3000000 01
•	1972315 00	• 7647497	01	• 6117788-02	• 7850890 00-	• 1605557 00	• 3250000 01
•	2484805 00	• 7503462	01	• 1117073-01	• 8172565 00-	• 1847338 00	• 3500000 01
•	3110923 00	• 7316193	01	• 1705216-01	• 6883026 00-	• 1902405 00	• 3750000 01
•	3885486 00	• 7116517	01	• 2089361-01	• 3356119 00-	• 1653163 00	• 4000000 01
•	4867789 00	• 6943530	01	• 2164988-01-	• 2265021 00-	• 1045768 00	• 4250000 01
•	6115891 00	• 6794144	01	• 2838893-01-	• 8332166 00-	• 1807575-01	• 4500000 01
•	7626802 00	• 6598479	01	• 5645163-01-	• 1159982 01	• 6463821-01	• 4750000 01
•	9363734 00	• 6309237	01	• 9460092-01-	• 8732195 00	• 1058955 00	• 5000000 01
•	1144050 01	• 6003424	01	• 1058485 00	• 7244562-01	• 8608083-01	• 5250000 01
•	1404472 01	• 5739759	01	• 1378711 00	• 1232728 01	• 2443866-01	• 5500000 01
•	1682219 01	• 5354136	01	• 3301016 00	• 1913213 01-	• 3179827-01	• 5750000 01
•	1885741 01	• 4674287	01	• 6541917 00	• 1772363 01-	• 4998668-01	• 6000000 01
•	1975696 01	• 3813992	01	• 8976623 00	• 1102854 01-	• 3638453-01	• 6250000 01
•	1997337 01	• 3002877	01	• 9848602 00	• 4579177 00-	• 1603850-01	• 6500000 01
•	1999871 01	• 2341610	01	• 9990369 00	• 1207039 00-	• 4301243-02	• 6750000 01
•	1999997 01	• 1823762	01	• 9999781 00	• 1868763-01-	• 6634596-03	• 7000000 01
•	2000000 01	• 1420349	01	• 9999999 00	• 1519652-02-	• 5326236-04	• 7250000 01
•	2000000 01	• 1106162	01	• 1000000 01	• 5571381-04-	• 1920764-05	• 7500000 01
•	2000000 01	• 8614854	00	• 1000000 01	• 7535586-06-	• 2533628-07	• 7750000 01
•	2000000 01	• 6709255	00	• 1000000 01	• 2896660-08-	• 9661601-10	• 8000000 01

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•2000000 01	•4069369 00	•1000000 01	•2141606-15-	•6733582-17	•8500000 01
•2000000 01	•3169228 00	•1000000 01	•0000000-39	•0000000-39	•8750000 01
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•2000000 01	•1165894 00	•1000000 01	•0000000-39	•0000000-39	•9750000 01
•2000000 01	•9079991-01	•1000000 01	•0000000-39	•0000000-39	•1000000 02
•2000000 01	•7071504-01	•1000000 01	•0000000-39	•0000000-39	•1025000 02
•2000000 01	•5507293-01	•1000000 01	•0000000-39	•0000000-39	•1050000 02
•2000000 01	•4289084-01	•1000000 01	•0000000-39	•0000000-39	•1075000 02
•2000000 01	•3340342-01	•1000000 01	•0000000-39	•0000000-39	•1100000 02
•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	BIND.	ENERGY	V(0)	LAMBDA
4 P 1/2	.2000000	01-	.8940379	02 .9344612 01	.7411404 00

ALPHA S	.2232281-02	.4669920 00-	.2686506 02	.5460802 03-	.9811615 04
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39
BETA S	.5789401-02-	.4049130 00	.1197080 02-	.2171453 03	.2798737 04
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39

R	TIMES	V(R)	V(R)	INTEGRAL	F	G	RHO
.1711526-03		.9344613 01	.2838258-09	.2240825-02	.5781989-02-	.4000000 01	
.2197640-03		.9344603 01	.5277806-09	.2699888-02	.6956448-02-	.3750000 01	
.2821822-03		.9344590 01	.9813519-09	.3253986-02	.8368600-02-	.3500000 01	
.3623283-03		.9344570 01	.1824553-08	.3923328-02	.1006608-01-	.3250000 01	
.4652374-03		.9344543 01	.3391862-08	.4732703-02	.1210582-01-	.3000000 01	
.5973739-03		.9344501 01	.6304570-08	.5712667-02	.1455568-01-	.2750000 01	
.7670385-03		.9344442 01	.1171631-07	.6901104-02	.1749641-01-	.2500000 01	
.9848878-03		.9344356 01	.2176815-07	.8345304-02	.2102366-01-	.2250000 01	
.1264604-02		.9344232 01	.4043146-07	.1010479-01	.2525027-01-	.2000000 01	
.1623753-02		.9344051 01	.7506688-07	.1225518-01	.3030852-01-	.1750000 01	
.2084881-02		.9343790 01	.1393041-06	.1489354-01	.3635219-01-	.1500000 01	
.2676932-02		.9343413 01	.2583515-06	.1814589-01	.4355805-01-	.1250000 01	
.3437049-02		.9342869 01	.4787646-06	.2217774-01	.5212618-01-	.1000000 01	
.4412887-02		.9342083 01	.8863719-06	.2720906-01	.6227811-01-	.7500000 00	
.5665573-02		.9340951 01	.1639071-05	.3353534-01	.7425121-01-	.5000000 00	
.7273470-02		.9339322 01	.3026628-05	.4155715-01	.8828718-01-	.2500000 00	
.9336980-02		.9336981 01	.5579354-05	.5182114-01	.1046111 00	.0000000-39	
.1198461-01		.9333623 01	.1026496-04	.6507539-01	.1233967 00	.2500000 00	
.1538062-01		.9328818 01	.1884444-04	.8234136-01	.1447106 00	.5000000 00	
.1973458-01		.9321955 01	.3451549-04	.1050013 00	.1684297 00	.7500000 00	
.2531312-01		.9312178 01	.6307960-04	.1348913 00	.1941202 00	.1000000 01	
.3245416-01		.9298275 01	.1150741-03	.1743715 00	.2208751 00	.1250000 01	
.4158350-01		.9278536 01	.2097014-03	.2263094 00	.2471069 00	.1500000 01	
.5323308-01		.9250525 01	.3821002-03	.2938483 00	.2703176 00	.1750000 01	
.6805885-01		.9210765 01	.6965897-03	.3797348 00	.2868984 00	.2000000 01	
.8685371-01		.9154316 01	.1269336-02	.4848523 00	.2920762 00	.2250000 01	
.1105485 00		.9074377 01	.2301048-02	.6055182 00	.2802155 00	.2500000 01	
.1401947 00		.8962348 01	.4103449-02	.7292143 00	.2457787 00	.2750000 01	
.1769417 00		.8809412 01	.7053446-02	.8291297 00	.1852655 00	.3000000 01	
.2220857 00		.8611201 01	.1132713-01	.8597436 00	.1002106 00	.3250000 01	
.2773758 00		.8376025 01	.1629487-01	.7590195 00	.5792783-03	.3500000 01	
.3457632 00		.8131573 01	.2006089-01	.4665159 00-	.9337216-01	.3750000 01	
.4321802 00		.7915658 01	.2111292-01-	.3363018-01-	.1539121 00	.4000000 01	
.5425127 00		.7738530 01	.2393638-01-	.6494350 00-	.1561979 00	.4250000 01	
.6791693 00		.7544891 01	.4182878-01-	.1137454 01-	.9506038-01	.4500000 01	
.8387380 00		.7256508 01	.7880790-01-	.1160137 01	.2143463-02	.4750000 01	
.1023561 01		.6896703 01	.1052082 00-	.5012720 00	.8368182-01	.5000000 01	
.1253409 01		.6577290 01	.1107719 00	.6607371 00	.1065543 00	.5250000 01	
.1529598 01		.6251120 01	.2008671 00	.1715384 01	.7089310-01	.5500000 01	
.1784207 01		.5678742 01	.4691097 00	.2046305 01	.1858883-01	.5750000 01	
.1936482 01		.4800062 01	.7792754 00	.1591620 01-	.1112044-01	.6000000 01	
.1989476 01		.3840593 01	.9498605 00	.8416538 00-	.1391653-01	.6250000 01	
.1999152 01		.3005605 01	.9946026 00	.2934899 00-	.6645928-02	.6500000 01	
.1999972 01		.2341727 01	.9997668 00	.6322292-01-	.1680642-02	.6750000 01	
.1999999 01		.1823764 01	.9999967 00	.7670225-02-	.2233332-03	.7000000 01	
.2000000 01		.1420349 01	.9999999 00	.4610713-03-	.1419039-04	.7250000 01	
.2000000 01		.1106169 01	.1000000 01	.1156028-04-	.3684400-06	.7500000 01	
.2000000 01		.8614854 00	.9999999 00	.9659620-07-	.3148551-08	.7750000 01	
.2000000 01		.6709255 00	.1000000 01	.2014752-09-	.6666742-11	.8000000 01	

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•2000000 01	•4069369 00	•1000000 01	•0000000-39	•0000000-39	•8500000 01
•2000000 01	•3169228 00	•1000000 01	•0000000-39	•0000000-39	•8750000 01
•2000000 01	•2468197 00	•1000000 01	•0000000-39	•0000000-39	•9000000 01
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•2000000 01	•1165894 00	•1000000 01	•0000000-39	•0000000-39	•9750000 01
•2000000 01	•9079991-01	•1000000 01	•0000000-39	•0000000-39	•1000000 02
•2000000 01	•7071504-01	•1000000 01	•0000000-39	•0000000-39	•1025000 02
•2000000 01	•5507293-01	•1000000 01	•0000000-39	•0000000-39	•1050000 02
•2000000 01	•4289084-01	•1000000 01	•0000000-39	•0000000-39	•1075000 02
•2000000 01	•3340342-01	•1200000 01	•0000000-39	•0000000-39	•1100000 02
•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	RIND.	ENERGY	V(0)	LAMBDA	
4 S 1/2	.2000000	01-	1010211	03	.9579615 01	.7411404 00

ALPHA S	.1679801-01-	.1889514	01	.7086427	02-	.1469182	04	.2067330	05
	.0000000-39	.0000000-39		.0000000-39		.0000000-39		.0000000-39	
BETA S	-.6476988-02	.4998619	00-	.1577344	02	.2984994	03-	.3966278	04
	.0000000-39	.0000000-39		.0000000-39		.0000000-39		.0000000-39	

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
.1754568-03	.9579614 01	.2384840-08	.1676343-01-	.6467838-02-	.4000000 01
.2252891-03	.9579536 01	.4432222-08	.2016400-01-	.7781316-02-	.3750000 01
.2892735-03	.9579421 01	.8235415-08	.2425037-01-	.9360464-02-	.3500000 01
.3714281-03	.9579257 01	.1529757-07	.2915863-01-	.1125844-01-	.3250000 01
.4769113-03	.9579019 01	.2840510-07	.3505069-01-	.1353870-01-	.3000000 01
.6123441-03	.9578675 01	.5271826-07	.4211847-01-	.1627687-01-	.2750000 01
.7862245-03	.9578176 01	.9778157-07	.5058845-01-	.1956276-01-	.2500000 01
.1009457-02	.9577457 01	.1812207-06	.6072628-01-	.2350260-01-	.2250000 01
.1296027-02	.9576419 01	.3355173-06	.7284099-01-	.2822144-01-	.2000000 01
.1663872-02	.9574923 01	.6203719-06	.8728816-01-	.3386541-01-	.1750000 01
.2135974-02	.9572771 01	.1145136-05	.1044707 00-	.4060372-01-	.1500000 01
.2741759-02	.9569681 01	.2109211-05	.1248350 00-	.4862981-01-	.1250000 01
.3518860-02	.9565254 01	.3874113-05	.1488605 00-	.5816092-01-	.1000000 01
.4515320-02	.9558933 01	.7090337-05	.1770356 00-	.6943482-01-	.7500000 00
.5792333-02	.9549944 01	.1291684-04	.2098151 00-	.8270193-01-	.5000000 00
.7427601-02	.9537229 01	.2339176-04	.2475481 00-	.9820991-01-	.2500000 00
.9519365-02	.9519366 01	.4203776-04	.2903606 00-	.1161768 00	.0000000-39
.1219116-01	.9494490 01	.7480291-04	.3379762 00-	.1367472 00	.2500000 00
.1559729-01	.9460237 01	.1314143-03	.3894485 00-	.1599245 00	.5000000 00
.1992893-01	.9413763 01	.2270774-03	.4427841 00-	.1854703 00	.7500000 00
.2542107-01	.9351892 01	.3840369-03	.4944364 00-	.2127628 00	.1000000 01
.3236081-01	.9271530 01	.6315869-03	.5386835 00-	.2406103 00	.1250000 01
.4109909-01	.9170449 01	.1001537-02	.5669675 00-	.2670252 00	.1500000 01
.5207058-01	.9048511 01	.1514390-02	.5674072 00-	.2889902 00	.1750000 01
.6583061-01	.8909206 01	.2152317-02	.5249296 00-	.3022943 00	.2000000 01
.8312057-01	.8760846 01	.2825570-02	.4228141 00-	.3015860 00	.2250000 01
.1049652 00	.8616072 01	.3370898-02	.2468345 00-	.2808924 00	.2500000 01
.1327704 00	.8487730 01	.3673242-02-	.6660363-02-	.2349374 00	.2750000 01
.1683215 00	.8380236 01	.4009347-02-	.3181792 00-	.1615627 00	.3000000 01
.2135453 00	.8280054 01	.5471561-02-	.6304258 00-	.6517844-01	.3250000 01
.2701047 00	.8156456 01	.9666775-02-	.8401710 00	.3982600-01	.3500000 01
.3395201 00	.7984749 01	.1656956-01-	.8137256 00	.1283404 00	.3750000 01
.4248244 00	.7780932 01	.2214470-01-	.4464550 00	.1701523 00	.4000000 01
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.6689579 00	.7431453 01	.3213789-01	.9529426 00	.5707494-01	.4500000 01
.8324375 00	.7201998 01	.6707997-01	.1253341 01-	.4754668-01	.4750000 01
.1019223 01	.6867474 01	.1051439 00	.7467242 00-	.1092304 00	.5000000 01
.1246446 01	.6540749 01	.1118939 00-	.4622539 00-	.9479757-01	.5250000 01
.1523927 01	.6227942 01	.1876555 00-	.1666510 01-	.2904459-01	.5500000 01
.1784967 01	.5681162 01	.4583133 00-	.2087978 01	.2792927-01	.5750000 01
.1939602 01	.4807795 01	.7821932 00-	.1617930 01	.4178915-01	.6000000 01
.1990825 01	.3843199 01	.9542828 00-	.8257897 00	.2644755-01	.6250000 01
.1999354 01	.3005908 01	.9956790 00-	.2701970 00	.9549886-02	.6500000 01
.1999982 01	.2341739 01	.9998454 00-	.5298614-01	.1962211-02	.6750000 01
.2000000 01	.1823764 01	.9999984 00-	.5647131-02	.2133484-03	.7000000 01
.2000000 01	.1420349 01	.9999999 00-	.2854716-03	.1085665-04	.7250000 01
.2000000 01	.1106162 01	.1000000 01-	.5699866-05	.2166967-06	.7500000 01
.2000000 01	.8614854 00	.9999999 00-	.3541792-07	.1341448-08	.7750000 01
.2000000 01	.6709255 00	.1000000 01-	.5046057-10	.1901929-11	.8000000 01

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•2000000 01 •4069369 00 •1000000 01 •0000000-39 •0000000-39 •8500000 01
•2000000 01 •3169228 00 •1000000 01 •0000000-39 •0000000-39 •8750000 01
•2000000 01 •2468197 00 •1000000 01 •0000000-39 •0000000-39 •9000000 01
•2000000 01 •1922234 00 •1000000 01 •0000000-39 •0000000-39 •9250000 01
•2000000 01 •1497037 00 •1000000 01 •0000000-39 •0000000-39 •9500000 01
•2000000 01 •1165894 00 •1000000 01 •0000000-39 •0000000-39 •9750000 01
•2000000 01 •9079991-01 •1000000 01 •0000000-39 •0000000-39 •1000000 02
•2000000 01 •7071504-01 •1000000 01 •0000000-39 •0000000-39 •1025000 02
•2000000 01 •5507293-01 •1000000 01 •0000000-39 •0000000-39 •1050000 02
•2000000 01 •4289084-01 •1000000 01 •0000000-39 •0000000-39 •1075000 02
•2000000 01 •3340342-01 •1000000 01 •0000000-39 •0000000-39 •1100000 02
•2000000 01 •2601461-01 •1000000 01 •0000000-39 •0000000-39 •1125000 02
•2000000 01 •2026020-01 •1000000 01 •0000000-39 •0000000-39 •1150000 02
•2000000 01 •1577866-01 •1000000 01 •0000000-39 •0000000-39 •1175000 02
•2000000 01 •1228843-01 •1000000 01 •0000000-39 •0000000-39 •1200000 02
•2000000 01 •9570240-02 •1000000 01 •0000000-39 •0000000-39 •1225000 02
•2000000 01 •7453311-02 •1000000 01 •0000000-39 •0000000-39 •1250000 02
•2000000 01 •5804644-02 •1000000 01 •0000000-39 •0000000-39 •1275000 02
•2000000 01 •4520661-02 •1000000 01 •0000000-39 •0000000-39 •1300000 02

DESIGNATION	NP	RIND.	ENERGY	V(0)	LAMBDA
5 F 5/2	•3000000 01	•2741853	00	•1566290 01	•2923917 01

ALPHA S	•2988607-12	•9565067-10-	•2202104-08	•3079523-07-	•3010596-06
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39
BETA S	•2637113-11-	•6765480-10	•1052502-08-	•1137416-07	•9635237-07
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39

R TIMES	V(R)	V(R)	INTEGRAL	F	G	RHO
•2868759-04	•1566289	01	•1882667-28	•3006119-12	•2635874-11-	•4000000 01
•3683559-04	•1566289	01	•1042753-27	•6254376-12	•5474279-11-	•3750000 01
•4729783-04	•1566289	01	•5775285-27	•1301858-11	•1136875-10-	•3500000 01
•6073162-04	•1566289	01	•3198376-26	•2711447-11	•2360899-10-	•3250000 01
•7798094-04	•1566289	01	•1771115-25	•5651551-11	•4902470-10-	•3000000 01
•1001295-03	•1566289	01	•9806492-25	•1179107-10	•1017930-09-	•2750000 01
•1285688-03	•1566289	01	•5428959-24	•2463040-10	•2113371-09-	•2500000 01
•1650857-03	•1566289	01	•3004949-23	•5153053-10	•4387087-09-	•2250000 01
•2119742-03	•1566289	01	•1662848-22	•1080214-09	•9105487-09-	•2000000 01
•2721802-03	•1566289	01	•9198851-22	•2270001-09	•1889450-08-	•1750000 01
•3494863-03	•1566289	01	•5086778-21	•4784982-09	•3919642-08-	•1500000 01
•4487493-03	•1566289	01	•2811468-20	•1012498-08	•8128332-08-	•1250000 01
•5762055-03	•1566289	01	•1552905-19	•2152526-08	•1684832-07-	•1000000 01
•7398625-03	•1566289	01	•8570441-19	•4602374-08	•3490239-07-	•7500000 00
•9500022-03	•1566289	01	•4725138-18	•9908022-08	•7224780-07-	•5000000 00
•1219827-02	•1566289	01	•2601737-17	•2150272-07	•1494075-06-	•2500000 00
•1566289-02	•1566289	01	•1430239-16	•4710229-07	•3085880-06	•0000000-39
•2011155-02	•1566289	01	•7846598-16	•1042663-06	•6363451-06	•2500000 00
•2582374-02	•1566289	01	•4294214-15	•2334681-06	•1309540-05	•5000000 00
•3315833-02	•1566289	01	•2343112-14	•5291488-06	•2687876-05	•7500000 00
•4257614-02	•1566289	01	•1274016-13	•1214150-05	•5498532-05	•1000000 01
•5466885-02	•1566289	01	•6899333-13	•2819210-05	•1120026-04	•1250000 01
•7019619-02	•1566289	01	•3719889-12	•6616940-05	•2269030-04	•1500000 01
•9013370-02	•1566289	01	•1996750-11	•1566946-04	•4564898-04	•1750000 01
•1157340-01	•1566289	01	•1067637-10	•3734085-04	•9102801-04	•2000000 01
•1486054-01	•1566289	01	•5694555-10	•8924684-04	•1794847-03	•2250000 01
•1908130-01	•1566289	01	•3037802-09	•2130632-03	•3488770-03	•2500000 01
•2450088-01	•1566289	01	•1626570-08	•5056365-03	•6659775-03	•2750000 01
•3145975-01	•1566289	01	•8771951-08	•1186185-02	•1242615-02	•3000000 01
•4039510-01	•1566289	01	•4768977-07	•2733077-02	•2253047-02	•3250000 01
•5186827-01	•1566287	01	•2600919-06	•6139325-02	•3941402-02	•3500000 01
•6659981-01	•1566278	01	•1404167-05	•1333013-01	•6593990-02	•3750000 01
•8551387-01	•1566242	01	•7340781-05	•2769579-01	•1043532-01	•4000000 01
•1097920 00	•1566099	01	•3610994-04	•5440733-01	•1541083-01	•4250000 01
•1409291 00	•1565581	01	•1617881-03	•9964309-01	•2088933-01	•4500000 01
•1807625 00	•1563903	01	•6382629-03	•1673638 00	•2546180-01	•4750000 01
•2314051 00	•1559196	01	•2142273-02	•2526464 00	•2710776-01	•5000000 01
•2950293 00	•1548172	01	•5898722-02	•3331000 00	•2399276-01	•5250000 01
•3737362 00	•1527375	01	•1280388-01	•3663639 00	•1591518-01	•5500000 01
•4703262 00	•1496946	01	•2106389-01	•3056643 00	•5130647-02	•5750000 01
•5903971 00	•1463449	01	•2573379-01	•1281914 00-	•4940702-02	•6000000 01
•7432935 00	•1434895	01	•2646728-01-	•1442906 00-	•1148560-01	•6250000 01
•9368364 00	•1408477	01	•4089014-01-	•4411888 00-	•1335266-01	•6500000 01
•1165732 01	•1364991	01	•1032277 00-	•6725829 00-	•1160269-01	•6750000 01
•1405403 01	•1281562	01	•2362339 00-	•7796364 00-	•8291175-02	•7000000 01
•1620832 01	•1151074	01	•4243165 00-	•7556790 00-	•5050731-02	•7250000 01
•1785855 01	•9877289	00	•6209120 00-	•6390351 00-	•2706751-02	•7500000 01
•1823276 01	•8158164	00	•7829865 00-	•4854430 00-	•1306131-02	•7750000 01
•1954624 01	•6557236	00	•8930415 00-	•3362764 00-	•5554149-03	•8000000 01

•1983634 01	•5182416 00	•9554327 00-	•2122177 00-	•1947048-03	•8250000 01
•1995153 01	•4059507 00	•9846852 00-	•1210502 00-	•4843140-04	•8500000 01
•1998878 01	•3167449 00	•9958272 00-	•6163849-01-	•1554313-05	•8750000 01
•1999812 01	•2467965 00	•9991602 00-	•2723325-01	•7545720-05	•9000000 01
•1999980 01	•1922214 00	•9998887 00-	•9877900-02	•5381257-05	•9250000 01
•1999999 01	•1497036 00	•9999918 00-	•2706463-02	•2125821-05	•9500000 01
•2000000 01	•1165894 00	•9999997 00-	•5025317-03	•5006387-06	•9750000 01
•2000000 01	•9079990-01	•1000000 01-	•5521603-04	•6489896-07	•1000000 02
•2000000 01	•7071503-01	•9999999 00-	•3031661-05	•4013508-08	•1025000 02
•2000000 01	•5507293-01	•1000000 01-	•6669048-07	•9806762-10	•1050000 02
•2000000 01	•4289084-01	•1000000 01	•0000000-39	•0000000-39	•1075000 02
•2000000 01	•3340342-01	•1000000 01	•0000000-39	•0000000-39	•1100000 02
•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	BIND. ENERGY	V(0)	LAMBDA
5 D 5/2	•6000000 01-	•7001284 01	•2868313 01	•2923917 01

ALPHA S	•1171307-09-	•3535764-08	•5871687-07-	•6711042-06	•5897987-05
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39
BETA S	-•1327427-10	•4398280-09-	•7533236-08	•8821388-07-	•7867410-06
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
•5253498-04	•2868313 01	•3713067-25	•1170659-09-	•1326622-10-	•4000000 01
•6745624-04	•2868313 01	•2056388-24	•2431210-09-	•2755070-10-	•3750000 01
•8661553-04	•2868313 01	•1138812-23	•5048882-09-	•5721326-10-	•3500000 01
•1112165-03	•2868313 01	•6305933-23	•1048439-08-	•1188047-09-	•3250000 01
•1428049-03	•2868313 01	•3491334-22	•2177002-08-	•2466807-09-	•3000000 01
•1833651-03	•2868313 01	•1932687-21	•4519951-08-	•5121439-09-	•2750000 01
•2354454-03	•2868313 01	•1069646-20	•9383308-08-	•1063141-08-	•2500000 01
•3023179-03	•2868313 01	•5918342-20	•1947649-07-	•2206560-08-	•2250000 01
•3881839-03	•2868313 01	•3273472-19	•4041835-07-	•4578734-08-	•2000000 01
•4984380-03	•2868313 01	•1809767-18	•8385618-07-	•9498450-08-	•1750000 01
•6400070-03	•2868313 01	•9999698-18	•1739196-06-	•1969714-07-	•1500000 01
•8217852-03	•2868313 01	•5521162-17	•3605609-06-	•4082744-07-	•1250000 01
•1055193-02	•2868313 01	•3045528-16	•7470901-06-	•8457514-07-	•1000000 01
•1354895-02	•2868313 01	•1677902-15	•1546910-05-	•1750660-06-	•7500000 00
•1739719-02	•2868313 01	•9229811-15	•3200140-05-	•3620225-06-	•5000000 00
•2233844-02	•2868313 01	•5066987-14	•6612642-05-	•7476947-06-	•2500000 00
•2868312-02	•2868313 01	•2774544-13	•1364402-04-	•1541753-05	•0000000-39
•3682986-02	•2868313 01	•1514271-12	•2809896-04-	•3172572-05	•2500000 00
•4729047-02	•2868313 01	•8229682-12	•5772812-04-	•6511268-05	•5000000 00
•6072216-02	•2868313 01	•4448506-11	•1182327-03-	•1331867-04	•7500000 00
•7796880-02	•2868313 01	•2388020-10	•2411912-03-	•2712667-04	•1000000 01
•1001139-01	•2868313 01	•1270612-09	•4895235-03-	•5494997-04	•1250000 01
•1285488-01	•2868313 01	•6684436-09	•9870811-03-	•1105446-03	•1500000 01
•1650600-01	•2868312 01	•3465966-08	•1973807-02-	•2204487-03	•1750000 01
•2119411-01	•2868312 01	•1764199-07	•3904923-02-	•4347831-03	•2000000 01
•2721376-01	•2868309 01	•8770314-07	•7620333-02-	•8456005-03	•2250000 01
•3494304-01	•2868300 01	•4230639-06	•1461234-01-	•1615753-02	•2500000 01
•4486719-01	•2868264 01	•1963985-05	•2739727-01-	•3018855-02	•2750000 01
•5760811-01	•2868140 01	•8683089-05	•4990896-01-	•5481886-02	•3000000 01
•7395961-01	•2867726 01	•3608094-04	•8761264-01-	•9600412-02	•3250000 01
•9492362-01	•2866446 01	•1385810-03	•1466233 00-	•1605952-01	•3500000 01
•1217304 00	•2862826 01	•4816868-03	•2305744 00-	•2535333-01	•3750000 01
•1558064 00	•2853695 01	•1474609-02	•3338370 00-	•3719346-01	•4000000 01
•1986623 00	•2833766 01	•3837878-02	•4313597 00-	•4962845-01	•4250000 01
•2518308 00	•2797588 01	•8107944-02	•4709614 00-	•5835105-01	•4500000 01
•3173521 00	•2745635 01	•1312699-01	•3824960 00-	•5742043-01	•4750000 01
•3991669 00	•2689566 01	•1562708-01	•1196845 00-	•4247414-01	•5000000 01
•5035564 00	•2642423 01	•1647075-01-	•2708154 00-	•1528418-01	•5250000 01
•6348714 00	•2594576 01	•2847706-01-	•6060079 00	•1383848-01	•5500000 01
•7913350 00	•2518647 01	•5850881-01-	•6382514 00	•3055392-01	•5750000 01
•9759177 00	•2419059 01	•7925410-01-	•2443647 00	•2765512-01	•6000000 01
•1207292 01	•2330623 01	•8479674-01	•4295381 00	•1063329-01	•6250000 01
•1484850 01	•2232383 01	•1741585 00	•1019263 01-	•7513666-02	•6500000 01
•1745388 01	•2043640 01	•4279075 00	•1209311 01-	•1623923-01	•6750000 01
•1912869 01	•1744311 01	•7323332 00	•9822700 00-	•1467617-01	•7000000 01
•1981126 01	•1406946 01	•9230408 00	•5761846 00-	•8631829-02	•7250000 01
•1997645 01	•1104867 01	•9875558 00	•2428197 00-	•3504899-02	•7500000 01
•1999849 01	•8614203 00	•9989806 00	•7118640-01-	•9738143-03	•7750000 01
•1999996 01	•6709240 00	•9999634 00	•1366374-01-	•1766899-03	•8000000 01

•2000000 01	•5225173 00	•9999995 00	•1561560-02-	•1916709-04	•8250000 01
•2000000 01	•4069369 00	•1000000 01	•9323705-04-	•1092704-05	•8500000 01
•2000000 01	•3169228 00	•9999999 00	•2450705-05-	•2760072-07	•8750000 01
•2000000 01	•2468197 00	•1000000 01	•2267318-07-	•2470757-09	•9000000 01
•2000000 01	•1922234 00	•9999999 00	•5527883-10-	•5867017-12	•9250000 01
•2000000 01	•1497037 00	•1000000 01	•2472641-13-	•2570169-15	•9500000 01
•2000000 01	•1165894 00	•1000000 01	•0000000-39	•0000000-39	•9750000 01
•2000000 01	•9079991-01	•1000000 01	•0000000-39	•0000000-39	•1000000 02
•2000000 01	•7071504-01	•1000000 01	•0000000-39	•0000000-39	•1025000 02
•2000000 01	•5507293-01	•1000000 01	•0000000-39	•0000000-39	•1050000 02
•2000000 01	•4289084-01	•1000000 01	•0000000-39	•0000000-39	•1075000 02
•2000000 01	•3340342-01	•1000000 01	•0000000-39	•0000000-39	•1100000 02
•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	RIND.	ENERGY	V(0)	LAMBDA
5 D 3/2	•4000000	01	•7588672	01	•1883956 01

ALPHA S	•2884991-07	•8326701-05-	•2661563-03	•4530756-02-	•5257047-01
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39

BETA S	•1669052-06-	•6136805-05	•1201948-03-	•1584024-02	•1577752-01
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39

R TIMES: V(R)	V(R)	INTEGRAL	F	G	RHO
•5464361-04	•2983440 01	•1101184-18	•2900233-07	•1667928-06-	•4000000 01
•7016378-04	•2983440 01	•3625986-18	•4651876-07	•2670804-06-	•3750000 01
•9009208-04	•2983440 01	•1193897-17	•7464581-07	•4276449-06-	•3500000 01
•1156805-03	•2983440 01	•3930686-17	•1198438-06	•6846904-06-	•3250000 01
•1485367-03	•2983440 01	•1293966-16	•1925407-06	•1096141-05-	•3000000 01
•1907249-03	•2983440 01	•4259084-16	•3096050-06	•1754641-05-	•2750000 01
•2448957-03	•2983440 01	•1401625-15	•4983961-06	•2808319-05-	•2500000 01
•3144522-03	•2983440 01	•4611561-15	•8034357-06	•4493886-05-	•2250000 01
•4037647-03	•2983440 01	•1516830-14	•1297472-05	•7189389-05-	•2000000 01
•5184441-03	•2983440 01	•4987276-14	•2099975-05	•1149811-04-	•1750000 01
•6656954-03	•2983440 01	•1639016-13	•3408332-05	•1838173-04-	•1500000 01
•8547697-03	•2983440 01	•5383191-13	•5551039-05	•2937128-04-	•1250000 01
•1097546-02	•2983440 01	•1766702-12	•9079419-05	•4689993-04-	•1000000 01
•1409277-02	•2983440 01	•5792504-12	•1492777-04	•7482610-04-	•7500000 00
•1809548-02	•2983440 01	•1896886-11	•2469649-04	•1192507-03-	•5000000 00
•2323505-02	•2983440 01	•6202361-11	•4115908-04	•1897850-03-	•2500000 00
•2983440-02	•2983440 01	•2024225-10	•6918019-04	•3014976-03	•0000000-39
•3830812-02	•2983440 01	•6591238-10	•1173950-03	•4778663-03	•2500000 00
•4918860-02	•2983440 01	•2140342-09	•2013037-03	•7551731-03	•5000000 00
•6315941-02	•2983440 01	•6927934-09	•3489983-03	•1188890-02	•7500000 00
•8109828-02	•2983440 01	•2234331-08	•6117610-03	•1862630-02	•1000000 01
•1041322-01	•2983439 01	•7177991-08	•1083580-02	•2900046-02	•1250000 01
•1337084-01	•2983438 01	•2297225-07	•1936661-02	•4479301-02	•1500000 01
•1716847-01	•2983433 01	•7328729-07	•3484758-02	•6847910-02	•1750000 01
•2204468-01	•2983423 01	•2334031-06	•6292463-02	•1033189-01	•2000000 01
•2830568-01	•2983397 01	•7437841-06	•1135444-01	•1532627-01	•2250000 01
•3634443-01	•2983334 01	•2378187-05	•2036598-01	•2224336-01	•2500000 01
•4666468-01	•2983174 01	•7642981-05	•3607513-01	•3138310-01	•2750000 01
•5991058-01	•2982773 01	•2464103-04	•6260510-01	•4268423-01	•3000000 01
•7690080-01	•2981768 01	•7898981-04	•1054021 00	•5533804-01	•3250000 01
•9866052-01	•2979290 01	•2472024-03	•1700510 00	•6732951-01	•3500000 01
•1264327 00	•2973412 01	•7342657-03	•2587233 00	•7514248-01	•3750000 01
•1616345 00	•2960440 01	•1994176-02	•3630450 00	•7410991-01	•4000000 01
•2057516 00	•2934890 01	•4728834-02	•4541707 00	•6004787-01	•4250000 01
•2603427 00	•2892146 01	•9258813-02	•4767361 00	•3238029-01	•4500000 01
•3276624 00	•2834836 01	•1404082-01	•3615863 00-	•2705884-02	•4750000 01
•4120554 00	•2776408 01	•1594400-01	•7153812-01-	•3239557-01	•5000000 01
•5198752 00	•2728056 01	•1735039-01-	•3297387 00-	•4304220-01	•5250000 01
•6546554 00	•2675428 01	•3204174-01-	•6436008 00-	•2998930-01	•5500000 01
•8141932 00	•2591400 01	•6320216-01-	•6242632 00-	•3340981-02	•5750000 01
•1003389 01	•2487154 01	•8072826-01-	•1750002 00	•1948650-01	•6000000 01
•1241595 01	•2396843 01	•8932519-01	•5220466 00	•2700656-01	•6250000 01
•1521682 01	•2287757 01	•1979247 00	•1085797 01	•2013616-01	•6500000 01
•1773733 01	•2076829 01	•4685924 00	•1220865 01	•8730395-02	•6750000 01
•1926938 01	•1757140 01	•7659701 00	•9496404 00	•1068534-02	•7000000 01
•1985301 01	•1409911 01	•9376308 00	•5329659 00-	•1336186-02	•7250000 01
•1998329 01	•1105245 01	•9908215 00	•2136039 00-	•1022081-02	•7500000 01
•1999905 01	•8614444 00	•9993317 00	•5894657-01-	•3679757-03	•7750000 01
•1999998 01	•6709247 00	•9999793 00	•1049593-01-	•7580291-04	•8000000 01

•2000000 01	•5225173 00	•9999998 00	•1091160-02-	•8634859-05	•8250000 01
•2000000 01	•4069369 00	•1000000 01	•5775983-04-	•4857784-06	•8500000 01
•2000000 01	•3169228 00	•1000000 01	•1301751-05-	•1141994-07	•8750000 01
•2000000 01	•2468197 00	•1000000 01	•9893073-08-	•8949440-10	•9000000 01
•2000000 01	•1922234 00	•1000000 01	•1877321-10-	•1738253-12	•9250000 01
•2000000 01	•1497037 00	•1000000 01	•6000189-14-	•5850491-16	•9500000 01
•2000000 01	•1165894 00	•1000000 01	•0000000-39	•0000000-39	•9750000 01
•2000000 01	•9079991-01	•1000000 01	•0000000-39	•0000000-39	•1000000 02
•2000000 01	•7071504-01	•1000000 01	•0000000-39	•0000000-39	•1025000 02
•2000000 01	•5507293-01	•1000000 01	•0000000-39	•0000000-39	•1050000 02
•2000000 01	•4289084-01	•1000000 01	•0000000-39	•0000000-39	•1075000 02
•2000000 01	•3340342-01	•1000000 01	•0000000-39	•0000000-39	•1100000 02
•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	BIND. ENERGY	V(0)	LAMBDA
5 P 3/2	.4000000	01-.1411995	.02 .3448384	01 •1883956 01

ALPHA S	.1631821-05-	.7620159-04	.1671285-02-	.2381285-01	.2503104 00
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39
BETA S	-.2820638-06	.1239842-04-	.2652561-03	.3720150-02-	.3870529-01
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
.6315935-04	.3448384 01	.1051990-16	.1630426-05-	.2818368-06-	.4000000 01
.8109821-04	.3448384 01	.3463423-16	.2610619-05-	.4512802-06-	.3750000 01
.1041322-03	.3448384 01	.1140127-15	.4179803-05-	.7225479-06-	.3500000 01
.1337083-03	.3448384 01	.3752628-15	.6691597-05-	.1156780-05-	.3250000 01
.1716849-03	.3448384 01	.1234913-14	.1071160-04-	.1851776-05-	.3000000 01
.2204478-03	.3448384 01	.4062866-14	.1714413-04-	.2963919-05-	.2750000 01
.2830605-03	.3448384 01	.1336270-13	.2743436-04-	.4743158-05-	.2500000 01
.3634569-03	.3448384 01	.4393222-13	.4389043-04-	.7588752-05-	.2250000 01
.4666879-03	.3448384 01	.1443612-12	.7019567-04-	.1213799-04-	.2000000 01
.5992392-03	.3448384 01	.4740599-12	.1122221-03-	.1940711-04-	.1750000 01
.7694383-03	.3448384 01	.1555430-11	.1793183-03-	.3101462-04-	.1500000 01
.9879784-03	.3448384 01	.5097986-11	.2863428-03-	.4953414-04-	.1250000 01
.1268589-02	.3448384 01	.1668569-10	.4568590-03-	.7904951-04-	.1000000 01
.1628901-02	.3448384 01	.5451500-10	.7281289-03-	.1260239-03-	.7500000 00
.2091550-02	.3448384 01	.1777028-09	.1158859-02-	.2006506-03-	.5000000 00
.2685603-02	.3448384 01	.5775598-09	.1841099-02-	.3189347-03-	.2500000 00
.3448382-02	.3448383 01	.1870084-08	.2918275-02-	.5058608-03	.0000000-39
.4427809-02	.3448382 01	.6025892-08	.4612033-02-	.8001381-03	.2500000 00
.5685413-02	.3448378 01	.1929653-07	.7261189-02-	.1261149-02	.5000000 00
.7300194-02	.3448368 01	.6130070-07	.1137620-01-	.1978811-02	.7500000 00
.9373571-02	.3448345 01	.1927486-06	.1771111-01-	.3086936-02	.1000000 01
.1203571-01	.3448288 01	.5981138-06	.2734994-01-	.4780054-02	.1250000 01
.1545354-01	.3448152 01	.1824749-05	.4179162-01-	.7331976-02	.1500000 01
.1984090-01	.3447831 01	.5446679-05	.6299158-01-	.1111073-01	.1750000 01
.2547080-01	.3447098 01	.1580624-04	.9326862-01-	.1657754-01	.2000000 01
.3268973-01	.3445473 01	.4423145-04	.1349083 00-	.2424595-01	.2250000 01
.4193240-01	.3442022 01	.1180821-03	.1891943 00-	.3456146-01	.2500000 01
.5373362-01	.3435076 01	.2965247-03	.2545334 00-	.4764730-01	.2750000 01
.6873382-01	.3422057 01	.6874330-03	.3234671 00-	.6287038-01	.3000000 01
.8768203-01	.3399802 01	.1434845-02	.3789979 00-	.7825481-01	.3250000 01
.1114699 00	.3366101 01	.2607234-02	.3922189 00-	.8996673-01	.3500000 01
.1412785 00	.3322553 01	.3949554-02	.3257692 00-	.9240600-01	.3750000 01
.1788926 00	.3276534 01	.4790720-02	.1497524 00-	.7968666-01	.4000000 01
.2269286 00	.3236963 01	.4959641-02-	.1259792 00-	.4907879-01	.4250000 01
.2882610 00	.3202292 01	.6691419-02-	.4142089 00-	.5693800-02	.4500000 01
.3647882 00	.3156038 01	.1324489-01-	.5467426 00	.3518027-01	.4750000 01
.4585920 00	.3089969 01	.2095711-01-	.3579645 00	.5362914-01	.5000000 01
.5762967 00	.3024129 01	.2251980-01	.1457659 00	.3896783-01	.5250000 01
.7253195 00	.2964216 01	.3396832-01	.6635402 00	.2130086-02	.5500000 01
.9020346 00	.2870980 01	.7384945-01	.7422059 00-	.2874533-01	.5750000 01
.1107524 01	.2745278 01	.9854256-01	.1815657 00-	.3274471-01	.6000000 01
.1364351 01	.2633819 01	.1150051 00-	.7015342 00-	.1370358-01	.6250000 01
.1651046 01	.2482248 01	.2839864 00-	.1295559 01	.7893631-02	.6500000 01
.1870884 01	.2190581 01	.6172590 00-	.1259525 01	.1619524-01	.6750000 01
.1971434 01	.1797715 01	.8826381 00-	.8004343 00	.1226190-01	.7000000 01
.1996641 01	.1417964 01	.9815339 00-	.3413452 00	.5515200-02	.7250000 01
.1999816 01	.1106068 01	.9986812 00-	.9481907-01	.1541255-02	.7500000 01
.1999996 01	.8614837 00	.9999636 00-	.1611614-01	.2580961-03	.7750000 01
.2000000 01	.6709255 00	.9999997 00-	.1519310-02	.2380419-04	.8000000 01

•2000000	01	•5225173	00	•1000000	01-	•6896141-04	•1056488-05	•8250000	01
•2000000	01	•4069367	00	•1000000	01-	•1246588-05	•1870400-07	•8500000	01
•2000000	01	•3169228	00	•1000000	01-	•7018343-08	•1033906-09	•8750000	01
•2000000	01	•2468197	00	•1000000	01-	•8994491-11	•1304877-12	•9000000	01
•2000000	01	•1922234	00	•1000000	01-	•1846430-14	•2634323-16	•9250000	01
•2000000	01	•1497037	00	•1000000	01	•0000000-39	•0000000-39	•9500000	01
•2000000	01	•1165894	00	•1000000	01	•0000000-39	•0000000-39	•9750000	01
•2000000	01	•9079991-01		•1000000	01	•0000000-39	•0000000-39	•1000000	02
•2000000	01	•7071504-01		•1000000	01	•0000000-39	•0000000-39	•1025000	02
•2000000	01	•5507293-01		•1000000	01	•0000000-39	•0000000-39	•1050000	02
•2000000	01	•4289084-01		•1000000	01	•0000000-39	•0000000-39	•1075000	02
•2000000	01	•3340342-01		•1000000	01	•0000000-39	•0000000-39	•1100000	02
•2000000	01	•2601461-01		•1000000	01	•0000000-39	•0000000-39	•1125000	02
•2000000	01	•2026020-01		•1000000	01	•0000000-39	•0000000-39	•1150000	02
•2000000	01	•1577866-01		•1000000	01	•0000000-39	•0000000-39	•1175000	02
•2000000	01	•1228843-01		•1000000	01	•0000000-39	•0000000-39	•1200000	02
•2000000	01	•9570240-02		•1000000	01	•0000000-39	•0000000-39	•1225000	02
•2000000	01	•7453311-02		•1000000	01	•0000000-39	•0000000-39	•1250000	02
•2000000	01	•5804644-02		•1000000	01	•0000000-39	•0000000-39	•1275000	02
•2000000	01	•4520661-02		•1000000	01	•0000000-39	•0000000-39	•1300000	02

DESIGNATION	NP	RIND.	ENERGY	V(0)	LAMBDA
5 P 1/2	.2000000	01-	.1811061	02 .3996965	01 .7411404

ALPHA S	.1090647-02	.2282950	00-	.1317462	02 .3154229	03-.4749775	04
	.0000000-39	.0000000-39		.0000000-39	.0000000-39	.0000000-39	
BETA S	.2828583-02-	.1983061	00 .5836451	01-.1049851	03 .1338844	04	
	.0000000-39	.0000000-39		.0000000-39	.0000000-39	.0000000-39	

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
.7320696-04	.3996965	01 .6775184-10	.1094824-02	.2824953-02-	.4000000
.9399955-04	.3996963	01 .1259860-09	.1319114-02	.3398765-02-	.3750000
.1206977-03	.3996960	01 .2342572-09	.1589837-02	.4088707-02-	.3500000
.1549788-03	.3996955	01 .4355360-09	.1916867-02	.4918051-02-	.3250000
.1989963-03	.3996948	01 .8096639-09	.2312316-02	.5914606-02-	.3000000
.2555157-03	.3996938	01 .1504946-08	.2791114-02	.7111533-02-	.2750000
.3280875-03	.3996924	01 .2796758-08	.3371770-02	.8548269-02-	.2500000
.4212705-03	.3996904	01 .5196174-08	.4077395-02	.1027155-01-	.2250000
.5409180-03	.3996874	01 .9651150-08	.4937070-02	.1233648-01-	.2000000
.6945451-03	.3996831	01 .1791864-07	.5987746-02	.1480769-01-	.1750000
.8917995-03	.3996769	01 .3325191-07	.7276854-02	.1776026-01-	.1500000
.1145068-02	.3996679	01 .6166779-07	.8865971-02	.2128052-01-	.1250000
.1470248-02	.3996549	01 .1142780-06	.1083598-01	.2546616-01-	.1000000
.1887747-02	.3996361	01 .2115671-06	.1329437-01	.3042529-01-	.7500000
.2423751-02	.3996091	01 .3912179-06	.1638551-01	.3627372-01-	.5000000
.3111856-02	.3995702	01 .7223800-06	.2030516-01	.4312926-01-	.2500000
.3995143-02	.3995144	01 .1331594-05	.2532037-01	.5110147-01	.0000000-39
.5128836-02	.3994342	01 .2449745-05	.3179658-01	.6027448-01	.2500000
.6583665-02	.3993195	01 .4496919-05	.4023268-01	.7067992-01	.5000000
.8450126-02	.3991558	01 .8235769-05	.5130351-01	.8225588-01	.7500000
.1084384-01	.3989225	01 .1504955-04	.6590495-01	.9478795-01	.1000000
.1391218-01	.3985908	01 .2744971-04	.8518755-01	.1078289	.00 .1250000
.1784250-01	.3981200	01 .5001039-04	.1105468	.00 .1205970	.00 .1500000
.2287179-01	.3974521	01 .9109508-04	.1435070	.00 .1318625	.00 .1750000
.2929793-01	.3965045	01 .1659941-03	.1853870	.00 .1398485	.00 .2000000
.3749171-01	.3951597	01 .3022697-03	.2365731	.00 .1422044	.00 .2250000
.4790851-01	.3932571	01 .5473841-03	.2951808	.00 .1361539	.00 .2500000
.6109920-01	.3905942	01 .9745714-03	.3549420	.00 .1189701	.00 .2750000
.7772427-01	.3869665	01 .1670925-02	.4025097	.00 .8893898-01	.3000000
.9859131-01	.3822801	01 .2672481-02	.4153009	.00 .4685920-01	.3250000
.1247618	.00 .3767480	01 .3820412-02	.3626950	.00-.2240733-02	.3500000
.1577704	.00 .3710405	01 .4662930-02	.2153403	.00-.4812600-01	.3750000
.1998503	.00 .3660387	01 .4883203-02-	.3276029-01-	.7672611-01	.4000000
.2537206	.00 .3619131	01 .5646653-02-	.3316237	.00-.7541590-01	.4250000
.3216204	.00 .3572881	01 .1002939-01-	.5530954	.00-.4183321-01	.4500000
.4050999	.00 .3504802	01 .1821229-01-	.5234544	.00 .8959743-02	.4750000
.5082161	.00 .3424334	01 .2277696-01-	.1456533	.00 .4819616-01	.5000000
.6393530	.00 .3355018	01 .2514494-01	.4386695	.00 .5141996-01	.5250000
.8013272	.00 .3274843	01 .5056813-01	.8209082	.00 .1956108-01	.5500000
.9884563	.00 .3146041	01 .9146575-01	.5993586	.00-.1927428-01	.5750000
.1213425	.01 .3007780	01 .1005551	.00-.2075101	.00-.3633569-01	.6000000
.1491253	.01 .2878796	01 .1619989	.00-.1081712	.01-.2690436-01	.6250000
.1761575	.01 .2648423	01 .4211253	.00-.1433126	.01-.7820052-02	.6500000
.1928953	.01 .2258573	01 .7546010	.00-.1147654	.01 .3542804-02	.6750000
.1988056	.01 .1812873	01 .9436223	.00-.6108544	.00 .4731388-02	.7000000
.1999002	.01 .1419641	01 .9937546	.00-.2151328	.00 .2260036-02	.7250000
.1999964	.01 .1106149	01 .9997102	.00-.4778475-01	.00 .5820868-03	.7500000
.1999999	.01 .8614852	00 .9999953	.00-.6181518-02	.00 .8165415-04	.7750000
.2000000	.01 .6709255	00 .1000000	.01-.4143216-03	.00 .5745573-05	.8000000

•2000000 01	•5225173 00	•1000000 01	•1221807-04	•1748490-06	•8250000 01
•2000000 01	•4069369 00	•1000000 01	•1276362-06	•1865495-08	•8500000 01
•2000000 01	•3169228 00	•1000000 01	•3575788-09	•5302631-11	•8750000 01
•2000000 01	•2468197 00	•1000000 01	•1895038-12	•2837901-14	•9000000 01
•2000000 01	•1922234 00	•1000000 01	•0000000-39	•0000000-39	•9250000 01
•2000000 01	•1497037 00	•1000000 01	•0000000-39	•0000000-39	•9500000 01
•2000000 01	•1165894 00	•1000000 01	•0000000-39	•0000000-39	•9750000 01
•2000000 01	•9079991-01	•1000000 01	•0000000-39	•0000000-39	•1000000 02
•2000000 01	•7071504-01	•1000000 01	•0000000-39	•0000000-39	•1025000 02
•2000000 01	•5507293-01	•1000000 01	•0000000-39	•0000000-39	•1050000 02
•2000000 01	•4289084-01	•1000000 01	•0000000-39	•0000000-39	•1075000 02
•2000000 01	•3340342-01	•1000000 01	•0000000-39	•0000000-39	•1100000 02
•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	BIND. ENERGY	V(0)	LAMBDA
5 S 1/2	.2000000	01-.2262320	02 .4231341 01	.7411404 00

ALPHA S	.8468383-02-	.9541322 00	.3572129 02-	.7356332 03	.1024812 05
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39
BETA S	-.3265245-02	.2515569 00-	.7885798 01	.1477582 03-	.1939733 04
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
.7749972-04	.4231341 01	.6060979-09	.8450919-02-	.3260640-02-	.4000000 01
.9951114-04	.4231321 01	.1126431-08	.1016524-01-	.3922808-02-	.3750000 01
.1277740-03	.4231293 01	.2092994-08	.1222527-01-	.4718911-02-	.3500000 01
.1640634-03	.4231251 01	.3887802-08	.1469964-01-	.5675746-02-	.3250000 01
.2106586-03	.4231190 01	.7219002-08	.1766994-01-	.6825312-02-	.3000000 01
.2704853-03	.4231102 01	.1339802-07	.2123293-01-	.8205731-02-	.2750000 01
.3472996-03	.4230976 01	.2485049-07	.2550277-01-	.9862283-02-	.2500000 01
.4459223-03	.4230793 01	.4605571-07	.3061334-01-	.1184853-01-	.2250000 01
.5725399-03	.4230529 01	.8526836-07	.3672040-01-	.1422753-01-	.2000000 01
.7350897-03	.4230149 01	.1576601-06	.4400314-01-	.1707297-01-	.1750000 01
.9437518-03	.4229602 01	.2910194-06	.5266456-01-	.2047016-01-	.1500000 01
.1211576-02	.4228817 01	.5360177-06	.6292964-01-	.2451668-01-	.1250000 01
.1555281-02	.4227692 01	.9845184-06	.7503972-01-	.2932208-01-	.1000000 01
.1996261-02	.4226085 01	.1801808-05	.8924069-01-	.3500633-01-	.7500000 00
.2561865-02	.4223801 01	.3282349-05	.1057614 00-	.4169578-01-	.5000000 00
.3286983-02	.4220570 01	.5943939-05	.1247767 00-	.4951545-01-	.2500000 00
.4216031-02	.4216031 01	.1068141-04	.1463491 00-	.5857549-01	.0000000-39
.5405375-02	.4209711 01	.1900542-04	.1703370 00-	.6894912-01	.2500000 00
.6926291-02	.4201009 01	.3338576-04	.1962603 00-	.8063838-01	.5000000 00
.8868540-02	.4189202 01	.5768175-04	.2231093 00-	.9352340-01	.7500000 00
.1134471-01	.4173487 01	.9753558-04	.2490891 00-	.1072909 00	.1000000 01
.1449567-01	.4153080 01	.1603690-03	.2713049 00-	.1213398 00	.1250000 01
.1849780-01	.4127418 01	.2542204-03	.2854284 00-	.1346663 00	.1500000 01
.2357357-01	.4096474 01	.3842190-03	.2854519 00-	.1457451 00	.1750000 01
.3000799-01	.4061141 01	.5457108-03	.2637574 00-	.1524441 00	.2000000 01
.3817429-01	.4023541 01	.7157729-03	.2119045 00-	.1520488 00	.2250000 01
.4857021-01	.3986886 01	.8530088-03	.1227435 00-	.1415209 00	.2500000 01
.6185756-01	.3954422 01	.9289276-03-	.5458146-02-	.1181639 00	.2750000 01
.7888037-01	.3927224 01	.1015632-02-	.1625862 00-	.8085544-01	.3000000 01
.1006285 00	.3901792 01	.1391820-02-	.3191642 00-	.3182146-01	.3250000 01
.1281679 00	.3870336 01	.2458430-02-	.4222074 00	.2157664-01	.3500000 01
.1627203 00	.3826816 01	.4182478-02-	.4033685 00	.6638029-01	.3750000 01
.2061451 00	.3775681 01	.5520180-02-	.2103012 00	.8684049-01	.4000000 01
.2614628 00	.3729567 01	.5806381-02	.1368867 00	.7179903-01	.4250000 01
.3320014 00	.3688203 01	.8253178-02	.4922499 00	.2485759-01	.4500000 01
.4195021 00	.3629405 01	.1695063-01	.6046661 00-	.3024733-01	.4750000 01
.5265368 00	.3547778 01	.2470923-01	.2805843 00-	.5259044-01	.5000000 01
.6616976 00	.3472272 01	.2645186-01-	.3685172 00-	.4396160-01	.5250000 01
.8297718 00	.3391089 01	.5108747-01-	.8495560 00	.1069707-02	.5500000 01
.1023399 01	.3257256 01	.9694930-01-	.6405270 00	.3584054-01	.5750000 01
.1254686 01	.3110057 01	.1072640 00	.2484150 00	.3559628-01	.6000000 01
.1537953 01	.2968948 01	.1826783-00	.1179682 01	.1109947-01	.6250000 01
.1800995 01	.2707688 01	.4730670 00	.1478483 01-	.1024958-01	.6500000 01
.1948383 01	.2281323 01	.8042528 00	.1096182 01-	.1444354-01	.6750000 01
.1992917 01	.1817305 01	.9631808 00	.5248102 00-	.8414541-02	.7000000 01
.1999553 01	.1420032 01	.9969108 00	.1603502 00-	.2786893-02	.7250000 01
.1999989 01	.1106163 01	.9999013 00	.2951799-01-	.5299178-03	.7500000 01
.2000000 01	.8614853 00	.9999991 00	.2984764-02-	.5408289-04	.7750000 01
.2000000 01	.6709255 00	.1000000 01	.1451033-03-	.2627107-05	.8000000 01

•2000000 01 •5225173 00 •1000000 01 •2821638-05-•5085177-07 •8250000 01
•2000000 01 •4069369 00 •1000000 01 •1722674-07-•3086308-09 •8500000 01
•2000000 01 •3169228 00 •1000000 01 •2425452-10-•4319295-12 •8750000 01
•2000000 01 •2468197 00 •1000000 01 •5385387-14-•9539605-16 •9000000 01
•2000000 01 •1922234 00 •1000000 01 •0000000-39 •0000000-39 •9250000 01
•2000000 01 •1497037 00 •1000000 01 •0000000-39 •0000000-39 •9500000 01
•2000000 01 •1165894 00 •1000000 01 •0000000-39 •0000000-39 •9750000 01
•2000000 01 •9079991-01 •1000000 01 •0000000-39 •0000000-39 •1000000 02
•2000000 01 •7071504-01 •1000000 01 •0000000-39 •0000000-39 •1025000 02
•2000000 01 •5507293-01 •1000000 01 •0000000-39 •0000000-39 •1050000 02
•2000000 01 •4289084-01 •1000000 01 •0000000-39 •0000000-39 •1075000 02
•2000000 01 •3340342-01 •1000000 01 •0000000-39 •0000000-39 •1100000 02
•2000000 01 •2601461-01 •1000000 01 •0000000-39 •0000000-39 •1125000 02
•2000000 01 •2026020-01 •1000000 01 •0000000-39 •0000000-39 •1150000 02
•2000000 01 •1577866-01 •1000000 01 •0000000-39 •0000000-39 •1175000 02
•2000000 01 •1228843-01 •1000000 01 •0000000-39 •0000000-39 •1200000 02
•2000000 01 •9570240-02 •1000000 01 •0000000-39 •0000000-39 •1225000 02
•2000000 01 •7453311-02 •1000000 01 •0000000-39 •0000000-39 •1250000 02
•2000000 01 •5804644-02 •1000000 01 •0000000-39 •0000000-39 •1275000 02
•2000000 01 •4520661-02 •1000000 01 •0000000-39 •0000000-39 •1300000 02

DESIGNATION	NP	BIND. ENERGY	V(0)	LAMBDA
6 D 3/2	•1000000	01-•2256375	00 •6301349	00 •1883956

ALPHA S	•5310630-08	•1532852-05-	•4900628-04	•8337138-03-	•9666200-02
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39
BETA S	•3072354-07-	•1129828-05	•2211515-04-	•2912291-03	•2898051-02
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39

R TIMES VIR	VIR	INTEGRAL	F	G	RHO
•1154132-04	•6301348	00	•3731324-20	•5338688-08	•3070286-07-•4000000
•1481935-04	•6301348	00	•1228653-19	•8563076-08	•4916359-07-•3750000
•1902842-04	•6301348	00	•4045478-19	•1374065-07	•7871994-07-•3500000
•2443298-04	•6301348	00	•1331899-18	•2206060-07	•1260363-06-•3250000
•3137256-04	•6301348	00	•4384556-18	•3544251-07	•2017752-06-•3000000
•4028317-04	•6301348	00	•1443175-17	•5699149-07	•3229905-06-•2750000
•5172461-04	•6301348	00	•4749355-17	•9174380-07	•5169490-06-•2500000
•6641571-04	•6301348	00	•1562610-16	•1478950-06	•8272243-06-•2250000
•8527946-04	•6301348	00	•5139719-16	•2388364-06	•1323406-05-•2000000
•1095010-03	•6301348	00	•1689919-15	•3865600-06	•2116545-05-•1750000
•1406021-03	•6301347	00	•5553737-15	•6274007-06	•3383665-05-•1500000
•1805366-03	•6301348	00	•1824071-14	•1021828-05	•5406593-05-•1250000
•2318136-03	•6301348	00	•5986391-14	•1671329-05	•8633220-05-•1000000
•2976546-03	•6301348	00	•1962762-13	•2747889-05	•1377379-04-•7500000
•3821960-03	•6301348	00	•6427497-13	•4546114-05	•2195134-04-•5000000
•4907494-03	•6301348	00	•2101634-12	•7576549-05	•3493505-04-•2500000
•6301347-03	•6301348	00	•6858957-12	•1273469-04	•5549868-04-•0000000-39
•8091089-03	•6301348	00	•2233392-11	•2161010-04	•8796386-04-•2500000
•1038916-02	•6301348	00	•7252365-11	•3705609-04	•1390091-03-•5000000
•1333995-02	•6301348	00	•2347460-10	•6424386-04	•2188451-03-•7500000
•1712884-02	•6301348	00	•7570754-10	•1126135-03	•3428622-03-•1000000
•2199386-02	•6301348	00	•2432152-09	•1994659-03	•5338198-03-•1250000
•2824067-02	•6301347	00	•7783702-09	•3565003-03	•8245093-03-•1500000
•3626174-02	•6301346	00	•2483156-08	•6414693-03	•1260483-02-•1750000
•4656096-02	•6301342	00	•7908089-08	•1158293-02	•1901731-02-•2000000
•5978538-02	•6301334	00	•2519976-07	•2090039-02	•2820922-02-•2250000
•7676568-02	•6301312	00	•8056987-07	•3748688-02	•4093857-02-•2500000
•9856825-02	•6301259	00	•2589132-06	•6639846-02	•5775537-02-•2750000
•1265614-01	•6301123	00	•8346316-06	•1152183-01	•7854269-02-•3000000
•1624993-01	•6300783	00	•2674965-05	•1939533-01	•1018039-01-•3250000
•2086254-01	•6299944	00	•8368631-05	•3128391-01	•1238157-01-•3500000
•2677958-01	•6297955	00	•2484363-04	•4757664-01	•1380840-01-•3750000
•3436171-01	•6293568	00	•6740980-04	•6670964-01	•1359922-01-•4000000
•4406081-01	•6284938	00	•1595995-03	•8333263-01	•1098263-01-•4250000
•5644550-01	•6270531	00	•3116546-03	•8720020-01	•5856982-02-•4500000
•7225495-01	•6251280	00	•4705866-03	•6556096-01-•6223425-03	•4750000
•9248729-01	•6231746	00	•5319029-03	•1172102-01-•6063704-02	•5000000
•1184481	00	•6215590	00	•5827074-03-•6203116-01-•7917680-02	•5250000
•1516550	00	•6197796	00	•1085657-02-•1180223	00-•5325949-02
•1938421	00	•6169572	00	•2098665-02-•1099996	00-•2343633-03
•2475252	00	•6135539	00	•2594181-02-•2131328-01	•3969997-02
•3163111	00	•6106243	00	•2999626-02-•1078679	00-•4973250-02
•4036302	00	•6068338	00	•6853990-02-•1936044	00-•2911332-02
•5125064	00	•6000836	00	•1367981-01-•1656585	00-•1592707-03
•6492523	00	•5920417	00	•1645745-01-•2124431	-01-•2329615-02
•8239563	00	•5851529	00	•1960223-01-•1791814	00-•3018130-02
•1040404	01	•5754312	00	•5147683-01-•3596820	00-•2674918-02
•1284630	01	•5533449	00	•1449568	00-•4733955
•1525617	01	•5117878	00	•3084836	00-•5079437
					00-•1225157-02
					•8000000
					01

•1728405 01	•4515609 00	•5151482 00-	•4709788 00-	•6442474-03	•8250000 01
•1870645 01	•3806172 00	•7155687 00-	•3838445 00-	•2644120-03	•8500000 01
•1951351 01	•3092138 00	•8667953 00-	•2745395 00-	•5959267-04	•8750000 01
•1986614 01	•2451677 00	•9536948 00-	•1682619 00	•2471050-04	•9000000 01
•1997579 01	•1919907 00	•9892788 00-	•8399992-01	•3774586-04	•9250000 01
•1999751 01	•1496851 00	•9985725 00-	•3170557-01	•2231105-04	•9500000 01
•1999988 01	•1165887 00	•9999095 00-	•8224297-02	•7517624-05	•9750000 01
•2000000 01	•9079989-01	•9999979 00-	•1301388-02	•1412212-05	•1000000 02
•2000000 01	•7071503-01	•1000000 01-	•1081407-03	•1322114-06	•1025000 02
•2000000 01	•5507293-01	•1000000 01-	•3903035-05	•5198978-08	•1050000 02
•2000000 01	•4289084-01	•1000000 01-	•4806763-07	•6820060-10	•1075000 02
•2000000 01	•3340342-01	•1000000 01-	•1598434-09	•1490579-12	•1100000 02
•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	BIND.	ENERGY	V(0)	LAMBDA	
6 P 3/2	•4000000	01-	•1625036	01	•1294828 01	•1883956 01

ALPHA S	•6213430-06-	•2902248-04	•6360047-03-	•9049237-02	•9495601-01
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39
BETA S	-•1074005-06	•4717127-05-	•1007802-03	•1410972-02-	•1465117-01
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
•2371559-04	•1294828 01	•1525209-17	•6208117-06-	•1073141-06-	•4000000 01
•3045142-04	•1294828 01	•5021380-17	•9940363-06-	•1718326-06-	•3750000 01
•3910040-04	•1294828 01	•1652993-16	•1591529-05-	•2751224-06-	•3500000 01
•5020591-04	•1294828 01	•5440678-16	•2547936-05-	•4404639-06-	•3250000 01
•6446567-04	•1294828 01	•1790416-15	•4078617-05-	•7050957-06-	•3000000 01
•8277555-04	•1294828 01	•5890468-15	•6527906-05-	•1128564-05-	•2750000 01
•1062859-03	•1294828 01	•1937365-14	•1044608-04-	•1806042-05-	•2500000 01
•1364738-03	•1294828 01	•6369424-14	•1671199-04-	•2889555-05-	•2250000 01
•1752358-03	•1294828 01	•2092991-13	•2672813-04-	•4621764-05-	•2000000 01
•2250073-03	•1294828 01	•6873053-13	•4273034-04-	•7389625-05-	•1750000 01
•2889150-03	•1294828 01	•2255104-12	•6827825-04-	•1180943-04-	•1500000 01
•3709743-03	•1294828 01	•7391187-12	•1090294-03-	•1886114-04-	•1250000 01
•4763404-03	•1294828 01	•2419129-11	•1739559-03-	•3009981-04-	•1000000 01
•6116331-03	•1294828 01	•7903694-11	•2772456-03-	•4798648-04-	•7500000 00
•7853525-03	•1294828 01	•2576365-10	•4412516-03-	•7640267-04-	•5000000 00
•1008413-02	•1294828 01	•8373527-10	•7010222-03-	•1214430-03-	•2500000 00
•1294827-02	•1294828 01	•2711257-09	•11111167-02-	•1926216-03	•0000000-39
•1662591-02	•1294827 01	•8736315-09	•1756078-02-	•3046794-03	•2500000 00
•2134808-02	•1294827 01	•2797580-08	•2764755-02-	•4802307-03	•5000000 00
•2741145-02	•1294825 01	•8887182-08	•4331544-02-	•7535196-03	•7500000 00
•3519691-02	•1294822 01	•2794366-07	•6743522-02-	•1175510-02	•1000000 01
•4519343-02	•1294814 01	•8670951-07	•1041336-01-	•1820297-02	•1250000 01
•5802863-02	•1294794 01	•2645288-06	•1591161-01-	•2792182-02	•1500000 01
•7450757-02	•1294748 01	•7895559-06	•2398246-01-	•4231375-02	•1750000 01
•9566176-02	•1294641 01	•2291143-05	•3550800-01-	•6313616-02	•2000000 01
•1228098-01	•1294406 01	•6410818-05	•5135679-01-	•9234641-02	•2250000 01
•1576300-01	•1293906 01	•1711210-04	•7201407-01-	•1316429-01	•2500000 01
•2022434-01	•1292899 01	•4296178-04	•9686636-01-	•1814961-01	•2750000 01
•2593069-01	•1291013 01	•9956270-04	•1230610 00-	•2394919-01	•3000000 01
•3321256-01	•1287791 01	•2076930-03	•1441051 00-	•2980902-01	•3250000 01
•4248430-01	•1282915 01	•3770454-03	•1489640 00-	•3426492-01	•3500000 01
•5428333-01	•1276622 01	•5703311-03	•1233935 00-	•3517592-01	•3750000 01
•6933869-01	•1269983 01	•6904862-03	•5605363-01-	•3028864-01	•4000000 01
•8863297-01	•1264282 01	•7148146-03-	•4908792-01-	•1855584-01	•4250000 01
•1133560 00	•1259272 01	•9696123-03-	•1583034 00-	•1941709-02	•4500000 01
•1447771 00	•1252568 01	•1916649-02-	•2068198 00	•1366119-01	•4750000 01
•1844858 00	•1243056 01	•2999814-02-	•1314646 00	•2054802-01	•5000000 01
•2350965 00	•1233674 01	•3208075-02	•6290745-01	•1457211-01	•5250000 01
•2997530 00	•1225022 01	•4965480-02	•2551959 00	•6120416-04	•5500000 01
•3806488 00	•1211522 01	•1050113-01	•2660471 00-	•1176987-01	•5750000 01
•4817717 00	•1194193 01	•1321667-01	•2589777-01-	•1244322-01	•6000000 01
•6106521 00	•1178836 01	•1695312-01-	•3068317 00-	•3539693-02	•6250000 01
•7689163 00	•1156020 01	•4093290-01-	•4349248 00	•5955188-02	•6500000 01
•9567284 00	•1120214 01	•6347873-01-	•1902630 00	•8629706-02	•6750000 01
•1191500 01	•1085508 01	•6907268-01	•2943056 00	•4727125-02	•7000000 01
•1473135 01	•1046183 01	•1606362 00	•7091661 00-	•6922944-03	•7250000 01
•1736944 01	•9606767 00	•4178395 00	•8332367 00-	•3654892-02	•7500000 01
•1907565 01	•8216697 00	•7228511 00	•6766431 00-	•3676752-02	•7750000 01
•1979004 01	•6638821 00	•9168037 00	•4041144 00-	•2311434-02	•8000000 01

•1997202 01	•5217864 00	•9856241 00	•1762103 00-	•1006759-02	•8250000 01
•1999806 01	•4068974 00	•9987216 00	•5394617-01-	•3010742-03	•8500000 01
•1999994 01	•3169218 00	•9999495 00	•1088334-01-	•5884086-04	•8750000 01
•2000000 01	•2468197 00	•9999993 00	•1316153-02-	•6897838-05	•9000000 01
•2000000 01	•1922234 00	•9999999 00	•8334776-04-	•4255122-06	•9250000 01
•2000000 01	•1497037 00	•1000000 01	•2304108-05-	•1152139-07	•9500000 01
•2000000 01	•1165894 00	•9999999 00	•2196664-07-	•1080821-09	•9750000 01
•2000000 01	•9079990-01	•1000000 01	•5355365-10-	•2602205-12	•1000000 02
•2000000 01	•7071504-01	•9999999 00	•2305887-13-	•1109631-15	•1025000 02
•2000000 01	•5507293-01	•1000000 01	•0000000-39	•0000000-39	•1050000 02
•2000000 01	•4289084-01	•1000000 01	•0000000-39	•0000000-39	•1075000 02
•2000000 01	•3340342-01	•1000000 01	•0000000-39	•0000000-39	•1100000 02
•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	BIND. ENERGY	V(0)	LAMBDA
6 P 1/2	•2000000	01-•2287704	01 •1531420	01 •7411404 00

ALPHA S	•4379428-03	•9168125-01-	•5294170	01 •1266367	03-•1903643	04
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39	
BETA S	•1135801-02-	•7966717-01	•2342596	01-•4206561	02 •5352787	03
	•0000000-39	•0000000-39	•0000000-39	•0000000-39	•0000000-39	

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO	
•2804892-04	•1531419	01	•1092414-10	•4396202-03	•1134342-02-•4000000	01
•3601553-04	•1531419	01	•2031366-10	•5296826-03	•1364753-02-•3750000	01
•4624483-04	•1531419	01	•3777102-10	•6383900-03	•1641794-02-•3500000	01
•5937952-04	•1531418	01	•7022466-10	•7697070-03	•1974811-02-•3250000	01
•7624475-04	•1531417	01	•1305480-09	•9284976-03	•2374970-02-•3000000	01
•9790011-04	•1531415	01	•2426533-09	•1120757-02	•2855587-02-•2750000	01
•1257060-03	•1531413	01	•4509411-09	•1353917-02	•3432497-02-•2500000	01
•1614094-03	•1531410	01	•8378153-09	•1637257-02	•4124463-02-•2250000	01
•2072531-03	•1531405	01	•1556120-08	•1982457-02	•4953618-02-•2000000	01
•2661171-03	•1531398	01	•2889139-08	•2404353-02	•5945902-02-•1750000	01
•3416988-03	•1531388	01	•5361412-08	•2921991-02	•7131470-02-•1500000	01
•4387459-03	•1531374	01	•9943058-08	•3560098-02	•8544981-02-•1250000	01
•5633531-03	•1531353	01	•1842566-07	•4351154-02	•1022565-01-•1000000	01
•7233455-03	•1531323	01	•3411195-07	•5338319-02	•1221689-01-•7500000	00
•9287674-03	•1531279	01	•6307756-07	•6579572-02	•1456518-01-•5000000	00
•1192512-02	•1531216	01	•1164713-06	•8153509-02	•1731780-01-•2500000	00
•1531126-02	•1531126	01	•2146947-06	•1016737-01	•2051872-01 •0000000-39	
•1965839-02	•1530997	01	•3949712-06	•1276789-01	•2420167-01 •2500000	
•2523882-02	•1530812	01	•7250254-06	•1615538-01	•2837925-01 •5000000	
•3240170-02	•1530548	01	•1327804-05	•2060078-01	•3302647-01 •7500000	
•4159438-02	•1530172	01	•2426287-05	•2646372-01	•3805704-01 •1000000	01
•5338958-02	•1529638	01	•4425284-05	•3420600-01	•4329103-01 •1250000	01
•6851956-02	•1528878	01	•8062005-05	•4438750-01	•4841406-01 •1500000	01
•8791891-02	•1527802	01	•1468416-04	•5761940-01	•5293156-01 •1750000	01
•1127772-01	•1526274	01	•2675506-04	•7442932-01	•5612895-01 •2000000	01
•1446032-01	•1524107	01	•4871330-04	•9496879-01	•5706081-01 •2250000	01
•1853007-01	•1521041	01	•8819694-04	•1184741	00 •5461052-01 •2500000	01
•2372598-01	•1516751	01	•1569758-03	•1424161	00 •4768137-01 •2750000	01
•3034742-01	•1510909	01	•2689993-03	•1614151	00 •3558489-01 •3000000	01
•3877236-01	•1503368	01	•4298845-03	•1663758	00 •1864588-01 •3250000	01
•4949019-01	•1494475	01	•6137530-03	•1449781	00-•1103175-02 •3500000	01
•6315711-01	•1485313	01	•7478078-03	•8545315-01-	•1952453-01 •3750000	01
•8065766-01	•1477297	01	•7824288-03-	•1445873-01-	•3092544-01 •4000000	01
•1031024 00	•1470677	01	•9084904-03-	•1342687	00-•3019776-01 •4250000	01
•1317147 00	•1463218	01	•1618227-02-	•2217714	00-•1641230-01 •4500000	01
•1678596 00	•1452270	01	•2915942-02-	•2065696	00 •4229638-02 •4750000	01
•2136359 00	•1439468	01	•3602450-02-	•5067308-01	•1987279-01 •5000000	01
•2722190 00	•1428475	01	•4033123-02	•1840805	00 •2043010-01 •5250000	01
•3463534 00	•1415468	01	•8194281-02	•3247750	00 •6488831-02 •5500000	01
•4383307 00	•1395111	01	•1403953-01	•2066451	00-•9675373-02 •5750000	01
•5544641 00	•1374380	01	•1510332-01-	•1410979	00-•1524109-01 •6000000	01
•7011034 00	•1353449	01	•2777804-01-	•4495141	00-•8026551-02 •6250000	01
•8758769 00	•1316828	01	•5975479-01-	•4103104	00 •3458407-02 •6500000	01
•1086128 01	•1271726	01	•7112285-01	•2305879-01	•9573663-02 •6750000	01
•1350161 01	•1231188	01	•1014173	00 •5710663	00 •8259035-02 •7000000	01
•1634853 01	•1161032	01	•2860642	00 •8856633	00 •3630172-02 •7250000	01
•1852804 01	•1024757	01	•6015222	00 •8369855	00 •7650127-04 •7500000	01
•1960962 01	•8446700	00	•8582070	00 •5604096	00-•1093727-02 •7750000	01
•1993791 01	•6688426	00	•9704490	00 •2721880	00-•8510130-03 •8000000	01

•1999471 01	•5223791 00	•9967529 00	•9340269-01-	•3597208-03	•8250000 01
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•2000000 01	•3169227 00	•9999969 00	•3011883-02-	•1386396-04	•8750000 01
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•2000000 01	•1922234 00	•1000000 01	•8248777-05-	•4091383-07	•9250000 01
•2000000 01	•1497037 00	•1000000 01	•1098806-06-	•5581584-09	•9500000 01
•2000000 01	•1165894 00	•1000000 01	•4144877-09-	•2144645-11	•9750000 01
•2000000 01	•9079990-01	•1000000 01	•3130509-12-	•1642063-14	•1000000 02
•2000000 01	•7071504-01	•1000000 01	•0000000-39	•0000000-39	•1025000 02
•2000000 01	•5507293-01	•1000000 01	•0000000-39	•0000000-39	•1050000 02
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•2000000 01	•2601461-01	•1000000 01	•0000000-39	•0000000-39	•1125000 02
•2000000 01	•2026020-01	•1000000 01	•0000000-39	•0000000-39	•1150000 02
•2000000 01	•1577866-01	•1000000 01	•0000000-39	•0000000-39	•1175000 02
•2000000 01	•1228843-01	•1000000 01	•0000000-39	•0000000-39	•1200000 02
•2000000 01	•9570240-02	•1000000 01	•0000000-39	•0000000-39	•1225000 02
•2000000 01	•7453311-02	•1000000 01	•0000000-39	•0000000-39	•1250000 02
•2000000 01	•5804644-02	•1000000 01	•0000000-39	•0000000-39	•1275000 02
•2000000 01	•4520661-02	•1000000 01	•0000000-39	•0000000-39	•1300000 02

DESIGNATION	NP	RIND.	ENERGY	V(0)	LAMBDA			
6 S 1/2	•2000000	01-	•3598756	01	•1753419	01	•7411404	00

ALPHA S	•3725550-02-	•4199141	00	•1571474	02-	•3231289	03	•4491141	04
	•0000000-39	•0000000-39		•0000000-39		•0000000-39		•0000000-39	
BETA S	-•1436500-02	•1106253	00-	•3462652	01	•6473247	02-	•8474220	03
	•0000000-39	•0000000-39		•0000000-39		•0000000-39		•0000000-39	

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO					
•3211500-04	•1753419	01	•1173065-09	•3717864-02-	•1434475-02-	•4000000	01			
•4123638-04	•1753415	01	•2180138-09	•4472053-02-	•1725787-02-	•3750000	01			
•5294839-04	•1753410	01	•4050860-09	•5378336-02-	•2076022-02-	•3500000	01			
•6798676-04	•1753402	01	•7524594-09	•6466895-02-	•2496970-02-	•3250000	01			
•8729616-04	•1753390	01	•1397191-08	•7773634-02-	•3002708-02-	•3000000	01			
•1120894-03	•1753373	01	•2593099-08	•9341114-02-	•3610007-02-	•2750000	01			
•1439236-03	•1753349	01	•4809645-08	•1121956-01-	•4338788-02-	•2500000	01			
•1847979-03	•1753313	01	•8913763-08	•1346786-01-	•5212618-02-	•2250000	01			
•2372782-03	•1753262	01	•1650308-07	•1615455-01-	•6259235-02-	•2000000	01			
•3046585-03	•1753189	01	•3051391-07	•1935844-01-	•7511058-02-	•1750000	01			
•3911657-03	•1753083	01	•5632446-07	•2316883-01-	•9005629-02-	•1500000	01			
•5022231-03	•1752931	01	•1037416-06	•2768469-01-	•1078587-01-	•1250000	01			
•6447871-03	•1752713	01	•1905443-06	•3301217-01-	•1289999-01-	•1000000	01			
•8277762-03	•1752402	01	•3487211-06	•3925940-01-	•1540077-01-	•7500000	00			
•1062618-02	•1751960	01	•6352603-06	•4652699-01-	•1834381-01-	•5000000	00			
•1363941-02	•1751335	01	•1150369-05	•5489186-01-	•2178413-01-	•2500000	00			
•1750456-02	•1750457	01	•2067219-05	•6438125-01-	•2577021-01	•0000000-39				
•2246060-02	•1749233	01	•3678143-05	•7493274-01-	•3033430-01	•2500000	00			
•2881221-02	•1747549	01	•6461053-05	•8633480-01-	•3547731-01	•5000000	00			
•3694724-02	•1745265	01	•1116267-04	•9814276-01-	•4114656-01	•7500000	00			
•4735853-02	•1742223	01	•1887452-04	•1095663	00-	•4720425-01	•1000000	01		
•6067172-02	•1738274	01	•3103202-04	•1193308	00-	•5338586-01	•1250000	01		
•7768150-02	•1733309	01	•4918893-04	•1255308	00-	•5924965-01	•1500000	01		
•9940048-02	•1727322	01	•7433441-04	•1255214	00-	•6412415-01	•1750000	01		
•1271277-01	•1720487	01	•1055624-03	•1159492	00-	•6707048-01	•2000000	01		
•1625452-01	•1713214	01	•1384312-03	•9310005-01-	•6689271-01	•2250000	01			
•2078486-01	•1706126	01	•1649332-03	•5383072-01-	•6225150-01	•2500000	01			
•2659011-01	•1699849	01	•1795871-03-	•2610171-02-	•5195690-01	•2750000	01			
•3403675-01	•1694591	01	•1964254-03-	•7174400-01-	•3551171-01	•3000000	01			
•4357714-01	•1689670	01	•2694335-03-	•1405438	00-	•1389557-01	•3250000	01		
•5575249-01	•1683580	01	•4758795-03-	•1856055	00	•9641925-02	•3500000	01		
•7122967-01	•1675162	01	•8082237-03-	•1767682	00	•2936924-01	•3750000	01		
•9092195-01	•1665294	01	•1063727-02-	•9105099-01	•3830525-01	•4000000	01			
•1161236	00	•1656415	01	•1118456-02	•6221671-01	•3149061-01	•4250000	01		
•1483859	00	•1648419	01	•1601241-02	•2176116	00	•1053436-01	•4500000	01	
•1892139	00	•1637021	01	•3274524-02	•2631074	00-	•1392306-01	•4750000	01	
•2406332	00	•1621374	01	•4698116-02	•1140121	00-	•2659223-01	•5000000	01	
•3062472	00	•1607038	01	•5065785-02-	•1738831	00-	•1879734-01	•5250000	01	
•3893587	00	•1591221	01	•9985528-02-	•3698829	00	•2122739-02	•5500000	01	
•4919546	00	•1565784	01	•1781310-01-	•2380953	00	•1738282-01	•5750000	01	
•6210579	00	•1539449	01	•1929928-01	•1840267	00	•1499803-01	•6000000	01	
•7830753	00	•1511692	01	•3778768-01	•5265741	00	•5437791-03	•6250000	01	
•9731826	00	•1463122	01	•7613070-01	•4034240	00-	•1087413-01	•6500000	01	
•1202803	01	•1408339	01	•8462456-01-	•1701826	00-	•1076367-01	•6750000	01	
•1485250	01	•1354374	01	•1529236	00-	•7689240	00-	•3433000-02	•7000000	01
•1756682	01	•1247551	01	•4187902	00-	•9855814	00	•2774881-02	•7250000	01
•1924731	01	•1064539	01	•7488319	00-	•7835916	00	•4260129-02	•7500000	01
•1986213	01	•8555468	00	•9301094	00-	•4273176	00	•2791654-02	•7750000	01
•1998663	01	•6704770	00	•9921235	00-	•1603357	00	•1121786-02	•8000000	01

•1999940 01 •5225018 00 •9995466 00-•3958386-01 •2840429-03 •8250000 01
•1999999 01 •4069367 00 •9999901 00-•5942732-02 •4286735-04 •8500000 01
•2000000 01 •3169228 00 •1000000 01-•4853533-03 •3486955-05 •8750000 01
•2000000 01 •2468197 00 •1000000 01-•1850838-04 •1320666-06 •9000000 01
•2000000 01 •1922234 00 •1000000 01-•2682341-06 •1901648-08 •9250000 01
•2000000 01 •1497037 00 •1000000 01-•1129300-08 •7964145-11 •9500000 01
•2000000 01 •1165894 00 •1000000 01-•9841842-12 •6912176-14 •9750000 01
•2000000 01 •9079991-01 •1000000 01-•1175322-15 •8275605-18 •1000000 02
•2000000 01 •7071504-01 •1000000 01 •0000000-39 •0000000-39 •1025000 02
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•2000000 01 •5804644-02 •1000000 01 •0000000-39 •0000000-39 •1275000 02
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DESIGNATION	NP	BIND. ENERGY	V(0)	LAMBDA
7 S 1/2	.2000000	01-.3797547	00 .5460183	00 .7411404

ALPHA S	.1069013-02-	.1204960	00 .4509189	01-.9270133	02 .1288086	04
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39
BETA S	-.4121906-03	.3174141-01-	.9933461	00 .1856491	02-.2429531	03
	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39	.0000000-39

R TIMES V(R)	V(R)	INTEGRAL	F	G	RHO
.1000067-04	.5460183	00 .9658439-11	.1066807-02-	.4116095-03-	.4000000
.1284112-04	.5460181	00 .1795018-10	.1283215-02-	.4951989-03-	.3750000
.1648830-04	.5460176	00 .3335277-10	.1543264-02-	.5956958-03-	.3500000
.2117138-04	.5460170	00 .6195378-10	.1855616-02-	.7164829-03-	.3250000
.2718453-04	.5460160	00 .1150378-09	.2230573-02-	.8615997-03-	.3000000
.3490555-04	.5460147	00 .2135029-09	.2680347-02-	.1035859-02-	.2750000
.4481944-04	.5460126	00 .3960022-09	.3219348-02-	.1244976-02-	.2500000
.5754900-04	.5460098	00 .7339149-09	.3864478-02-	.1495714-02-	.2250000
.7389380-04	.5460055	00 .1358781-08	.4635397-02-	.1796031-02-	.2000000
.9488049-04	.5459995	00 .2512362-08	.5554722-02-	.2155231-02-	.1750000
.1218270-03	.5459908	00 .4637472-08	.6648078-02-	.2584085-02-	.1500000
.1564254-03	.5459783	00 .8541558-08	.7943858-02-	.3094910-02-	.1250000
.2008476-03	.5459604	00 .1568844-07	.9472522-02-	.3701539-02-	.1000000
.2578814-03	.5459349	00 .2871190-07	.1126510-01-	.4419118-02-	.7500000
.3311041-03	.5458984	00 .5230401-07	.1335045-01-	.5263601-02-	.5000000
.4251060-03	.5458470	00 .9471530-07	.1575065-01-	.6250775-02-	.2500000
.5457745-03	.5457746	00 .1702035-06	.1847351-01-	.7394553-02	.0000000-39
.7006591-03	.5456740	00 .3028377-06	.2150110-01-	.8704187-02	.2500000
.8994355-03	.5455353	00 .5319656-06	.2477273-01-	.1017995-01	.5000000
.1154500-02	.5453472	00 .9190664-06	.2816078-01-	.1180671-01	.7500000
.1481727-02	.5450968	00 .1554006-05	.3143845-01-	.1354494-01	.1000000
.1901440-02	.5447717	00 .2554959-05	.3423998-01-	.1531873-01	.1250000
.2439665-02	.5443629	00 .4049835-05	.3601853-01-	.1700132-01	.1500000
.3129755-02	.5438700	00 .6120039-05	.3601513-01-	.1840004-01	.1750000
.4014527-02	.5433072	00 .8690915-05	.3326752-01-	.1924543-01	.2000000
.5149074-02	.5427086	00 .1139672-04	.2670986-01-	.1919429-01	.2250000
.6604433-02	.5421250	00 .1357817-04	.1544033-01-	.1786220-01	.2500000
.8472178-02	.5416083	00 .1478430-04-	.7562888-03-	.1490759-01	.2750000
.1086979-01	.5411754	00 .1617126-04-	.2059388-01-	.1018767-01	.3000000
.1394665-01	.5407703	00 .2218439-04-	.4033237-01-	.3983552-02	.3250000
.1789124-01	.5402688	00 .3918222-04-	.5325289-01	.2771933-02	.3500000
.2294334-01	.5395758	00 .6653228-04-	.5069772-01	.8433090-02	.3750000
.2941549-01	.5387636	00 .8753485-04-	.2607445-01	.1099489-01	.4000000
.3771902-01	.5380331	00 .9203484-04	.1792273-01	.9032475-02	.4250000
.4837292-01	.5373748	00 .1318781-03	.6247795-01	.3008445-02	.4500000
.6200358-01	.5364363	00 .2695411-03	.7539159-01-	.4016895-02	.4750000
.7942320-01	.5351495	00 .3859701-03	.3238072-01-	.7643258-02	.5000000
.1017570	00 .5339719	00 .4166047-03-	.5029984-01-	.5373297-02	.5250000
.1303396	00 .5326684	00 .8230272-03-	.1059634	00 .6683882-03	.5500000
.1667030	00 .5305794	00 .1456916-02-	.6675130-01	.5041081-02	.5750000
.2131841	00 .5284308	00 .1577956-02	.5524095-01	.4266687-02	.6000000
.2725464	00 .5261386	00 .3129857-02	.1505643	00 .9310415-05	.6250000
.3473210	00 .5221763	00 .6096778-02	.1064197	00 .3300874-02	.6500000
.4422816	00 .5178587	00 .6680791-02-	.6591917-01-	.3037716-02	.6750000
.5629735	00 .5133656	00 .1313401-01-	.2234326	00 .5122348-03	.7000000
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.8917629	00 .4932203	00 .3985476-01-	.3892894-01	.2074299-02	.7500000
.1121528	01 .4830902	00 .4796975-01	.2280985	00 .1300428-02	.7750000
.1395627	01 .4681810	00 .1322119	00 .4488711	00 .2449802-03	.8000000

.1663603 01	.4346307 00	.3499855 00	.5345771 00	.4821258-03	.8250000 01
.1859360 01	.3783210 00	.6366337 00	.4730324 00	.7064753-03	.8500000 01
.1959395 01	.3104885 00	.8611165 00	.3227988 00	.5705182-03	.8750000 01
.1992714 01	.2459206 00	.9672351 00	.1671436 00	.3193642-03	.9000000 01
.1999292 01	.1921554 00	.9958323 00	.6235064-01	.1246324-03	.9250000 01
.1999969 01	.1497014 00	.9997610 00	.1543435-01	.3179809-04	.9500000 01
.1999999 01	.1165893 00	.9999948 00	.2267122-02	.4772736-05	.9750000 01
.1999999 01	.9079988-01	.1000000 01	.1708282-03	.3653725-06	.1000000 02
.2000000 01	.7071503-01	.9999997 00	.5473501-05	.1184590-07	.1025000 02
.2000000 01	.5507292-01	.1000000 01	.5863460-07	.1280307-09	.1050000 02
.2000000 01	.4289083-01	.9999997 00	.1547629-09	.3402133-12	.1075000 02
.2000000 01	.3340342-01	.1000000 01	.6898815-13	.1524161-15	.1100000 02
.2000000 01	.2601461-01	.1000000 01	.0000000-39	.0000000-39	.1125000 02
.2000000 01	.2026020-01	.1000000 01	.0000000-39	.0000000-39	.1150000 02
.2000000 01	.1577866-01	.1000000 01	.0000000-39	.0000000-39	.1175000 02
.2000000 01	.1228843-01	.1000000 01	.0000000-39	.0000000-39	.1200000 02
.2000000 01	.9570240-02	.1000000 01	.0000000-39	.0000000-39	.1225000 02
.2000000 01	.7453311-02	.1000000 01	.0000000-39	.0000000-39	.1250000 02
.2000000 01	.5804644-02	.1000000 01	.0000000-39	.0000000-39	.1275000 02
.2000000 01	.4520661-02	.1000000 01	.0000000-39	.0000000-39	.1300000 02

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