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LOS ALAMOS SCIENTIFIC LABORATORY of the University of California LOS ALAMOS • NEW MEXICO

Evaluated Nuclear Data for Hydrogen in the ENDF/B-II Format



by

L. Stewart R. J. LaBauve P. G. Young

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EVALUATED NUCLEAR DATA FOR HYDROGEN IN THE ENDF/B-11 FORMAT

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L. Stewart, R. J. LaBauve, and P. G. Young

ABSTRACT

The following nuclear data are given for hydrogen in the energy range from 1.0 x 10^{-5} eV to 20.0 MeV.

- File 1. The general information file includes a brief description of the data to follow.
- File 2. Values for nuclear spin and effective scattering radius are given in the resonance file.
- File 3. Smooth cross-section data are given for the total cross section, the free-atom elastic scattering cross section, and the radiative capture cross section; data for $\bar{\mu}$, ξ , and γ are also included.
- File 4. The angular distributions for elastic scattering are given as probability vs cosine of the scattering angle.
- File 7. The free-atom-scattering cross section is the only information provided at thermal.
- File 12. Secondary gamma-ray production multiplicities for capture, which are equal to one, are given in this file.
- File 14. Gamma-ray angular distributions are provided for the single radiative capture gamma ray.

INTRODUCTION

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This evaluation for hydrogen (MAT = 1148) differs from the previous ENDF/B evaluation (MAT = 1001) in that the elastic scattering data were taken from recent work by Hopkins and Breit¹ and the data for radiative capture were taken from recent work by Horsley.² Also, gamma-ray production data, not given in the MAT = 1001 evaluation, are included. A complete listing for MAT = 1148 is given in the Appendix.

FILE 1: GENERAL INFORMATION

A brief summary of the data to follow is given in File 1. The atomic mass for hydrogen was taken to be 1.007825 from the May 1969 "Chart of the Nuclides."³

FILE 2: RESONANCE INFORMATION

Nuclear spin and effective scattering radius are given in this file. An effective scattering

radius of 1.2756 x 10^{-12} cm is consistent with a potential scattering cross section of 20.449 b, as determined from $4\pi a^2$. Singlet and triplet scattering radii are not included.

FILE 3: SMOOTH CROSS SECTIONS

Total cross sections (MT = 1) were obtained by adding the elastic scattering and radiative capture cross sections at all energies (1.0 x 10^{-5} eV to 20.0 MeV). The hydrogen total cross sections are shown in Fig. 1.

The elastic scattering cross sections (MT = 2)were taken from an extensive theoretical treatment of fast neutron measurements by Hopkins and Breit.¹ In this work, a consistent set of cross sections and angular distributions were obtained by using a set of phase shifts previously determined at Yale University.⁴ Tabular values of the elastic scattering cross section are given in Ref. 1 for only a

few energies, the two lowest points being 100 and 200 keV. The phase shift program and the Yale phase shifts were provided by Hopkins¹ so that many Intermediate points could be calculated. At 0.1 keV, the lowest energy recommended for running this program, the scattering cross section is 20.4488 b. This value is in excellent agreement with the thermal cross section (20.442 + 0.023 b) derived by Davis and Barschall⁵ from a revised value of the effective range obtained by determining the best values of the neutron energies from many experiments below 5 MeV performed since 1950. Therefore, for this evaluation, the free-atom-scattering cross section is assumed to be constant below 100 eV and equal to the value calculated from the Yale phase shifts at 100 eV, giving a thermal cross section of 20.449 b. At higher energies, these theoretical predictions are in excellent agreement with the recent measurements of Davis⁶ giving an average value of 0.84 for the square of the devlation for energies below 20.0 MeV. The elastic cross section for hydrogen from 1.0×10^{-5} eV to 20.0 MeV is shown in Flg. 2.

The cross sections for radiative capture (MT = 102) were taken from the 1966 publication of Horsley,² where a value of 332 mb was adopted for the thermal value. Deuteron photodisintegration cross sections were also employed in deriving radiative capture in Horsley's report. Although the Nuclear Data article by Horsley² was referenced for MAT = 1001, the values were taken from an early version described in AWRE 0-23/65, and these were later revised for the Nuclear Data article. The latter report (Ref. 2) has been used for this evaluation, as suggested by Horsley. The radiative capture cross section for MAT = 1148 from 1.0 x 10^{-5} eV to 20.0 MeV is shown in Fig. 3.

The average value of the cosine in the laboratory system ($\bar{\mu}_{L}$) for elastic scattering (MT = 251) was derived from the secondary angular distributions in File 4 (MT = 4). Values for $\bar{\mu}_{L}$ from 1.0 x 10⁻⁵ eV to 20.0 MeV are shown in Fig. 4.

Values for ξ , the average logarithmic energy change per collision (MT = 252), and for γ , the Goertzel-Greuling constant (MT = 253), are taken equal to 1 over the range 1.0 x 10⁻⁵ eV to 20.0 MeV, following the MT = 1001 evaluation.

FILE 4: SECONDARY ANGULAR DISTRIBUTIONS

Angular distributions of secondary neutrons resulting from elastic scattering are tabulated from 1.0 x 10⁻⁵ eV to 20.0 MeV. Distributions at 0.1, 5, 10, 20, and 30 MeV are provided by Ref. 1; additional and intermediate data were calculated by using the Hopkins-Breit phase shift program and the Yale phase shifts. As shown in Figs. 5 through 16, the angular distributions above 100 keV are neither isotropic below 10 MeV, nor are they symmetric about 90° at higher energies as assumed in the earlier version (MAT = 1001). At 100 keV, the angular distributions are assumed to be isotropic because the 180/0° ratio is very nearly unity (1.0011). At 500 keV, this ratio approaches 1.005; therefore, the pointwise normalized probabilities as a function of the cosine of the scattering angle are provided at 1.0×10^{-5} eV (isotropic), 100 keV (isotropic), 500 keV, and at I-MeV intervals from 1 to 20 MeV.

FILE 5: THERMAL DATA

Free-atom cross sections specified from 1.0 x 10^{-5} eV to 5 eV are included in this file.

FILE 12: PHOTON PRODUCTION CROSS SECTIONS

A multiplicity representation is used to describe the single hydrogen radiative capture gamma ray from 1.0 x 10^{-5} eV to 20.0 MeV. The multiplicity is referred to MT = 102 in File 3 and is unity at all neutron energies. To adequately represent the gamma-ray energy for MeV-incident neutrons, the neutron energy region from 0.2 to 20 MeV is divided into 16 different energy bands, and the gamma-ray energy is tabulated for each neutron energy band as

$$\bar{E}_{\gamma} = 2.225 \times 10^6 + \bar{E}_{\eta}/2$$
 (eV),

where \overline{E}_n is the neutron energy at the midpoint of the band in eV. The value 2.225 x 10⁶ eV corresponds to the deuteron binding energy; that is, the small energy change due to the nuclear recoil that accompanies gamma emission has been ignored.

FILE 14: GAMMA-RAY ANGULAR DISTRIBUTIONS

The gamma-ray angular distributions are assumed to be isotropic at all neutron energies from 1.0 x 10^{-5} eV to 20.0 MeV.



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REFERENCES

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1.

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APPENDIX

LISTING OF HYDROGEN EVALUATION

| HYDROG | EN IN ENDF/B-II FORMAT. MAT = 1148 | 1148-0 -0 | 0 |
|--------------------|---|---------------------------|--------|
| 1.001 E+03 | 9•9917E-01 0 0 0 | 121148 1451 | 1 |
| 0.0 0 | •0 0 0 67 | 01148 1451 | 2 |
| | | 1148 1451 | 3 |
| HYDROGEN I | FREE ATOM CROSS SECTIONS | 1148 1451 | 4 |
| ENTRY I | BY L. STEWART, R.J. LABAUVE, AND P.G. YOUNG | 1148 1451 | 5 |
| LOS AL | AMOS SCIENTIFIC LABORATORY | 1148 1451 | 6 |
| LOS AL | AMOS NEW MEXICO 87544 | 1148 1451 | 7 |
| OCTOBE | R 20.1970 | 1148 1451 | Å |
| | | 1148 1451 | , 9 |
| MF=1 | | 1148 1451 | 10 |
| | | 1148 1451 | 11 |
| MT=451• / | ATOMIC MASS=1.007825 | 1148 1451 | 12 |
| | | 1148 1451 | 13 |
| MF=2 | | 1148 1451 | 14 |
| | | 1148 1451 | 14 |
| MT±151. 9 | SCATTERING LENGTHEL.2756E-12 CM. | 1140 1451 | 15 |
| | SCH (12 140 2) (011-102/302 12 010 | 1140 1451 | 10 |
| MEzz | | 1140 1451 | 17 |
| PH 40 | | 1140 1451 | 10 |
| MT= 1. | TOTAL CROSS SECTIONS THE TOTAL CROSS SECTIONS A | 1140 1431 DF 1160 1651 | 20 |
| ···· | ORTATINED BY ADDING THE ELASTIC SCATTERING AND | NE 1140 1401 1140 1451 | 20 |
| (| DADIAINED DI ADDING INC FLASIIC SCATTERING AND DADIAINE CADINGE COOSE SECTIONE AT ALL ENEDCIES | 1148 1451 | 21 |
| • | ADIALLY CAPTURE CRUSS SECTIONS AT ALL ENERGIES. | 1148 1451 | 22 |
| | 1.0E=05 EV (0 20 MEV. | 1148 1451 | 23 |
| NT- 0 (| | 1148 1451 | 24 |
| $MI = C \bullet C$ | ELASTIC SCATTERING FRUM AN EXTENSIVE THEORETICAL | L 1148 1451 | 25 |
| | IKEAIMENI UF FASI NEUIKUN MEASUKEMENIS | 1148 1451 | 26 |
| r 1 | DT J. C. FUFNINDILADLI AND G. DREITISTATE | 1148 1451 | 21 |
| l | UNIVERSELT OF NEW TORKI. | 1148 1451 | 28 |
| | 1.00-05 FV (0 20 MEV. | 1148 1451 | 29 |
| NT-100 F | | 1148 1451 | 30 |
| MI=1020 P | RADIATIVE CAPTORE THESE CRUSS SECTIONS ARE TAKEN | N 1148 1451 | 31 |
| 1 | FROM THE 1966 PUBLICATION OF A. HURSLEY WHERE A VALU | UE 1148 1451 | 32 |
| (| OF 332 MR WAS ADOPTED FOR THE THERMAL VALUE. | 1148 1451 | 33 |
| | 1.0E-05 EV 10 20 MEV. | 1148 1451 | 34 |
| | | 1148 1451 | 35 |
| MT=251• / | AVERAGE VALUF OF COSINE OF SCATTERING ANGLE | 1148 1451 | 36 |
| 1 | IN LAB SYSTEM. | 1148 1451 | 37 |
| | 1.0E-05 EV TO 20 MEV. | 1148 1451 | 38 |
| | | 1148 1451 | 39 |
| MT=252, 4 | AVERAGE LOGARITHMIC ENERGY CHANGE PER COLLISON, TAK | EN 1148 1451 | 40 |
| 4 | AS 1, FROM 1.0E-05 EV TO 20 MEV. | 1148 1451 | 41 |
| | | 1148 1451 | 42 |
| MT=253• (| GAMMA+ TAKEN AS 1+ FROM 1.0E-05 EV TO 20 MEV. | 1148 1451 | 43 |
| | | 1148 1451 | 44 |
| MF=4 | | 1148 1451 | 45 |
| | | 1148 1451 | 46 |
| MT= 2, N | NEUTRON ELASTIC SCATTERING ANGULAR DISTRIBUTIONS IN | 1148 1451 | 47 |
| ۱ | THE CENTER OF MASS SYSTEMGIVEN AS NORMALIZED | 1148 1451 | 48 |
| F | POINTWISE PROBABILITIES. | 1148 1451 | 49 |

| | | 1148 | 1451 | 50 |
|---------|---|------|------|------|
| | | 1148 | 1451 | 51 |
| MF=7 | | 1148 | 1451 | 52 |
| | | 1148 | 1451 | 53 |
| MT≖ 4, | .00001 TO 5 EV FREE GAS SIGMA=20.449 BARNS. | 1148 | 1451 | 54 |
| | | 1148 | 1451 | 55 |
| MF=12 | | 1148 | 1451 | 56 |
| | | 1148 | 1451 | 57 |
| MT=102+ | GAMMA RAY MULTIPLICITIES MULTIPLICITY, (REFERRED | 1148 | 1451 | - 58 |
| | TO MT=102, MF=3), IS UNITY AT ALL NEUTRON ENERGIES. | 1148 | 1451 | 59 |
| | SIXTEEN ENERGY BANDS ARE GIVEN FROM .2 MEV TO 20 MEV. | 1148 | 1451 | 60 |
| | AND THE AVERAGE GAMMA RAY ENERGY, EAG, IS DETERMINED | 1148 | 1451 | 61 |
| | FROM THE AVERAGE NEUTRON ENERGY, EAN, IN THE BAND BY | 1148 | 1451 | 62 |
| | EAG=2.225E+06+EAN/2., RECOIL ENERGY IGNORED. | 1148 | 1451 | 63 |
| | | 1148 | 1451 | 64 |
| MF=14 | | 1148 | 1451 | 65 |
| | | 1148 | 1451 | 66 |
| MT≠102, | GAMMA RAY ANGULAR DISTRIBUTION ASSUMED ISOTROPIC | 1148 | 1451 | 67 |
| | | | | |

| | TH TH FNDE / P-TT FORMAT MAT = 1148 | 1148- | 0 -0 0 |
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| | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 121148 | 1451 1 |
| | | 01148 | 1451 2 |
| 0.0 | J.0 0 0. | 1148 | 1451 3 |
| | EDEE ATON CROSS SECTIONS | 1148 | 1451 4 |
| ENTRY | BY L. STEWART. R.J. LABAUVE. AND P.G. YOUNG | 1148 | 1451 5 |
| | AMOS SCIENTIFIC LABORATORY | 1148 | 1451 6 |
| | AMOS NEW MEXICO 87544 | 1148 | 1451 7 |
| | ED 20.1970 | 1148 | 1451 8 |
| 001081 | | 1148 | 1451 9 |
| MF = 1 | | 1148 | 1451 10 |
| ···· – • | | 1148 | 1451 11 |
| MT=451. | ATOMIC MASS=1.007825 | 1148 | 1451 12 |
| | | 1148 | 1451 13 |
| MF=2 | | 1148 | 1451 14 |
| | | 1148 | 1451 15 |
| MT=151, | SCATTERING LENGTH=1.2756E-12 CM. | 1148 | 1451 16 |
| | | 1148 | 1451 17 |
| MF=3 | | 1148 | 1451 18 |
| | | 1148 | 1451 19 |
| MT= 1+ | TOTAL CROSS SECTIONS THE TOTAL CROSS SECTIONS | ARE 1148 | 1451 20 |
| | OBTAINED BY ADDING THE ELASTIC SCATTERING AND | 1148 | 1451 21 |
| | RADIATIVE CAPTURE CROSS SECTIONS AT ALL ENERGIES. | 1148 | 1451 22 |
| | 1.0E-05 EV TO 20 MEV. | 1148 | 1451 23 |
| | | 1148 | 1451 24 |
| MT= `• | ELASTIC SCATTERING FROM AN EXTENSIVE THEORETIC | AL 1148 | 1451 25 |
| | TREATMENT OF FAST NEUTRON MEASUREMENTS | 1148 | 1451 26 |
| | BY J. C. HOPKINS(LASL) AND G. BREIT(STATE | 1148 | 1451 27 |
| | UNIVERSITY OF NEW YORK). | 1148 | 1451 28 |
| | 1.0E-05 EV TO 20 MEV. | 1148 | 1451 29 |
| | | 1148 | 1451 30 |
| MT=102+ | RADIATIVE CAPTURE THESE CROSS SECTIONS ARE TAK | EN 1148 | 1451 31 |
| | FROM THE 1966 PUBLICATION OF A. HORSLEY WHERE A VA | LUE 1148 | 1451 32 |
| | OF 332 MB WAS ADOPTED FOR THE THERMAL VALUE. | 1148 | 1451 33 |
| | 1.0E-05 EV TO 20 MEV. | 1148 | 1451 34 |
| | WERE WALKE OF COSTNE OF CONTREDING ANCIE | 1148 | 1451 35 |
| MT=251+ | AVERAGE VALUE OF CUSINE OF SCATTERING ANGLE | 1140 | 1451 30 |
| | IN LAB SYSTEM. | 1140 | 1451 39 |
| | 1.0E-05 EV TO 20 MEV. | 1140 | 1451 30 |
| | AVERAGE LOCADITUNIC ENERGY CHANGE REP COLLISON. TA | 1140 KEN 1140 | 1451 59 |
| MI=2529 | AVERAGE LUGARITHMIC ENERGY CHANGE FER COLLISONY TH | 1140 | 1451 40 |
| | AS IN FRUM INDERUS EN TO ZU MENN | 1140 | 1451 42 |
| 47-253 | CANNA, TAKEN AS 1. ERON 1.05-05 EV TO 20 NEV. | 1140 | 1451 43 |
| MI=23.5+ | DAWWAA TAVEN AR TA LUDW TODEAR FALLO DA HAD DA | 1149 | 1451 44 |
| | | 1140 | 1451 45 |
| MF = 4 | | 1140 | 1451 45 |
| NT- 3 | NEUTOON ELASTIC SCATTERING ANGULAS DISTRUCTIONS I | N 1140 | 1451 40 |
| MI= 29 | THE CENTED OF MASS SYSTEM-CIVEN AS NODAN TIED | 11/0 | 1451 47 |
| | DATATHIER OF MADD STOLEN-OLVEN AD NORMALIZED | 1140 | 1451 40 |
| | PUINIWIDE PRUDADILIIIRDO | 1140 | 1421 44 |

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| | | | | | 1 | 148 | 1451 | 50 |
|-------------|-------------|--------------|--------------|-------------|--------------|------|------|-----|
| | | | | | 1 | 148 | 1451 | 51 |
| MF=7 | | | | | 1 | 148 | 1451 | 52 |
| | | | | | 1 | 148 | 1451 | 53 |
| MT= 4• | .00001 TO S | 5 FV FREE GA | AS SIGMA≠20. | 449 BARNS. | 1 | 148 | 1451 | 54 |
| | | | | |] | 148 | 1451 | 55 |
| MF=12 | | | | | 1 | 148 | 1451 | 56 |
| | | | | | 1 | 148 | 1451 | 57 |
| MT=102• | GAMMA RAY I | ULTIPLICITI | (ES MUL1 | FIPLICITY, | (REFERRED] | 148 | 1451 | 58 |
| | TO MT=102. | MF=3) + IS (| JNITY AT ALL | NEUTRON EN | NERGIES. | 148 | 1451 | 59 |
| | SIXTEEN EN | ERGY BANDS A | ARE GIVEN FR | NOM .2 MEV | TO 20 MEV. 1 | 148 | 1451 | 60 |
| | AND THE AVE | ERAGE GAMMA | RAY ENERGY | EAG. IS DE | ETERMINED 1 | 148 | 1451 | 61 |
| | FROM THE AV | VERAGE NEUTH | NON ENERGY. | EAN. IN THE | E BAND BY 1 | 148 | 1451 | 62 |
| | EAG=2.225E | +06+EAN/2.+ | RECOIL ENER | GY IGNORED. | • 1 | 148 | 1451 | 63 |
| | | | | | | 148 | 1451 | 64 |
| MF=14 | | | | | | 148 | 1451 | 65 |
| | | | | | | 148 | 1451 | 66 |
| MT=102+ | GAMMA RAY | ANGULAR DIS | RIBUTION - | ASSUMED | ISOTHOPIC | 1148 | 1451 | 67 |
| | AT ALL NEU | TRON ENERGI | S. | | | 148 | 1451 | 68 |
| | | | | | | l148 | 1451 | 69 |
| | | 1 | 451 | 81 | • | 148 | 1451 | 70 |
| | | 2 | 151 | 4 | | 148 | 1451 | 71 |
| | | 3 | 1 | 48 | | 148 | 1451 | 72 |
| | | 3 | 2 | 48 | | 1148 | 1451 | 73 |
| | | 3 | 102 | 48 | | 148 | 1451 | 74 |
| | | 3 | 251 | 8 | | 148 | 1451 | 75 |
| | | 3 | 252 | 4 | | 148 | 1451 | 76 |
| | | 3 | 253 | 4 | | 148 | 1451 | 77 |
| | | 4 | 2 | 88 | | 1148 | 1451 | 78 |
| | | 7 | 4 | 4 | • | 1148 | 1451 | 79 |
| | | 12 | 102 | 70 | | l148 | 1451 | 80 |
| | | 14 | 102 | 1 | | L148 | 1451 | 81 |
| | | | | | | l148 | 1 0 | 82 |
| | | | | | | 1148 | 0 0 | 83 |
| 1.001 F+03 | 9.9917E-01 | 0 | 0 | 1 | 01 | [148 | 2151 | 84 |
| 1.001 E+03 | 1.0000E+00 | 0 | 0 | 1 | 0 | 148 | 2151 | 85 |
| 1.0 E-05 | 1.0 E+05 | 0 | 0 | 0 | 01 | 148 | 2151 | 86 |
| 5.0 F-01 | 1.2756E+00 | 0 | 0 | 0 | 01 | 148 | 2151 | 87 |
| 0.0 | 0.0 | 0 | 0 | 0 | 0 | 148 | 5 0 | 88 |
| 0.0 | 0.0 | 0 | 0 | 0 | 0 | 1148 | 0 0 | 89 |
| 1.001 ++03 | 9.991/E-01 | 0 | 0 | 0 | 0 | 1148 | 3 1 | 90 |
| 0.0 | 0.0 | 0 | 0 | 1 | 134 | 148 | 3 1 | 91 |
| 134 | 5 | | | F | | 148 | 3 1 | 92 |
| 1.0000F-05 | 3.71488+01 | 2.0000E-05 | 3.2257E+01 | 5.0000E-05 | 2.7917E+01 | 148 | 3 1 | 93 |
| 1.0000E-04 | 2.5/30E+01 | 2.0000E-04 | 2.4183E+01 | 5.00001-04 | 2.2811E+01 | 148 | 3 1 | 94 |
| 1.0000E-03 | 2.21192+01 | 2.0000E-03 | 2.1030E+01 | 5.0000E-03 | 2.1196E+01 | 148 | 3 1 | 95 |
| 1.000000-02 | 2.07772.01 | 2.53000-02 | 2.0700E+01 | 1.00000.+02 | 2.04508+01 | 148 | 3 1 | 90 |
| 1.000000000 | 2.03302+01 | E 0000E+03 | 2.02000000 | 5.0000E+03 | 2.00700+01 | 148 | 3 1 | 97 |
| 9 0000E+03 | 1 94505+01 | 1 000000403 | 1 92105 +01 | 1 50005+04 | 1 96505+01 | 140 | 3 1 | 90 |
| 2 00005+04 | 1 91305+01 | 2 50000000 | 1 76305+01 | 3 00005+04 | 1 71706+011 | 140 | 2 1 | 100 |
| 3.50000000 | 1.6740E+01 | 4.0000E+04 | 1.6330E+01 | 4.5000F+04 | 1.59405+011 | 140 | 3 1 | 101 |
| 5.0000E+04 | 1.5580E+01 | 5.5000E+04 | 1.5230E+01 | 6.0000E+04 | 1.4900E+011 | 149 | 3 1 | 102 |
| 6-50005+04 | 1.4590E+01 | 7.0000E+04 | 1.4290E+01 | 7.500000404 | 1.4010E+011 | 148 | 3 1 | 103 |
| 8-0000F+04 | 1.3740E+01 | 8-5000F+04 | 1.3480E+01 | 9,0000F+04 | 1.3240F+01 | 140 | 3 1 | 104 |
| 9-5000F+04 | 1.3000E+01 | 1.0000E+05 | 1.2770E+01 | 1.1000E+05 | 1.2350E+011 | 148 | 3 1 | 105 |
| 1.2000E+05 | 1.1960E+01 | 1.3000F+05 | 1.1610E+01 | 1.4000E+05 | 1.1280E+01 | 148 | 3 1 | 106 |
| 1.5000F+05 | 1.0970F+01 | 1.6000E+05 | 1.0670F+01 | 1.7000F+05 | 1.0400F+011 | 148 | 3 1 | 107 |
| 1.8000E+05 | 1.0140F+01 | 1.9000F+05 | 9.8980F+00 | 2.0000F+05 | 9.6710E+001 | 148 | 3 1 | 108 |
| 2.2000E+05 | 9.2580E+00 | 2.4000E+05 | 8.8920E+00 | 2.6000E+05 | 8.5620E+001 | 148 | 3 1 | 109 |
| 2.8000E+05 | 8.2620E+00 | 3.0000E+05 | 7.9870E+00 | 3.2000E+05 | 7.7340E+001 | 148 | 3 1 | 110 |
| 3.4000E+05 | 7.5010E+00 | 3.6000E+05 | 7.2840E+00 | 3.8000E+05 | 7.0830E+001 | 148 | 3 i | 111 |
| 4.0000E+05 | 6.8970E+00 | 4.2000E+05 | 6.7250E+00 | 4.4000E+05 | 6.5650E+001 | 148 | 3 i | 112 |
| 4.6000E+05 | 6.4150E+00 | 4.8000E+05 | 6.2750E+00 | 5.0000E+05 | 6.1430E+001 | 148 | 3 1 | 113 |
| 5.5000E+05 | 5.8450E+00 | 6.0000E+05 | 5.5840E+00 | 6.5000E+05 | 5.3540E+001 | 148 | 3 i | 114 |
| 7.0000E+05 | 5.1480E+00 | 7.5000E+05 | 4.9640E+00 | 8.0000E+05 | 4.7970E+00 | 148 | 3 i | 115 |
| 8.5000E+05 | 4.6450F+00 | 9.0000E+05 | 4.5060E+00 | 9.5000E+05 | 4.3780E+001 | 148 | 3 Î | 116 |
| 1.0000E+06 | 4.2610E+00 | 1.1000E+06 | 4.0510E+00 | 1.2000E+06 | 3.8680E+001 | 148 | 3 i | 117 |
| 1.3000F+06 | 3.7060E+00 | 1.4000E+06 | 3.5610E+00 | 1.5000E+06 | 3-4290E+001 | 148 | 3 Ī | 118 |
| 1.6000E+06 | 3.3090E+00 | 1.7000E+06 | 3.1980E+00 | 1.8000F+06 | 3.0970E+001 | 148 | 3 Ī | 119 |

| 1 | | | | | | | |
|-------------------|---------------------------|--------------|--------------|-------------|--------------------------|---------------------|-------------------|
| 1.40005+00 | 3.0030E+00 | 2.0000E+06 | 2.9150E+00 | 2.2000E+06 | 2.7590E+001148 | 3 1 | 120 |
| 2.4000E+06 | 2.6220E+00 | 2.6000E+06 | 2.5010F+00 | 2.8000F+06 | 2.3920F+001148 | 3 1 | 121 |
| 3 00005406 | 2 20305+00 | 3 20005+06 | 2 20305+00 | 3 40005+06 | 2 12005+001149 | 2 1 | 122 |
| 3.00002.00 | | 3.200000000 | | | 2.12002+001148 | 5 1 | 122 |
| 3.6000E+06 | 2.0430E+00 | 3-8000E+06 | 1.9730E+00 | 4.0000E+06 | 1.9070E+001148 | 3 1 | 123 |
| 4-2000F+06 | 1.8450F+00 | 4-4000F+06 | 1,7880F+00 | 4-6000F+06 | 1.7340E+001148 | ו ר | 124 |
| 4 80005.04 | 1 69205+00 | E 0000E+06 | 1 43505.00 | 5 20005.06 | 1 5005.001149 | | 1 25 |
| 4.000VE+00 | 1.00306+00 | 3.0000E+08 | 1.03506+00 | 3.2000E+08 | 1.00005+001148 | 3 1 | 125 |
| 5.4000E+06 | 1.5470E+00 | 5.6000E+06 | 1.5060E+00 | 5.8000E+06 | 1.4670E+001148 | 3 1 | 126 |
| 6 00005+06 | 1 43005400 | 6 20005+06 | 1 39505+00 | 6 40005+06 | 1 36305+001149 | 2 1 | 127 |
| | 1.43002+00 | 0.20002.000 | 1.57.702.400 | 0.40002400 | 1.50202+001148 | 5 1 | 121 |
| 6+000E+06 | 1.3290E+00 | 6.8000E+06 | 1.5330E+00 | 7.0000E+06 | 1.2690E+001148 | 3 1 | 128 |
| 7.50005+06 | 1.2010E+00 | 8.00005+06 | 1.1390E+00 | 8.5000F+06 | 1.0830E+001T48 | 3 1 | 120 |
| | | | | | | 5 . | 10, |
| A*00005+00 | 1.0.320E+00 | 9.70002 +00 | 9.8590E-01 | 1.0000E+07 | 9.4320E-011148 | 3 1 | 130 |
| 1.0500E+07 | 9.0350E-01 | 1.1000E+07 | 8.6650E-01 | 1.1500F+07 | 8.3230F-011148 | 3 1 | 131 |
| 1 20005+07 | 8 00505-01 | 1 25005+07 | 7 71005-01 | 1 30005+07 | 7 44205-011149 | 2 1 | 1.22 |
| | 3.00 002-01 | 1.23002+01 | 1.11002-01 | 1.30002+07 | 1.4330E-011148 | 5 1 | 152 |
| 1.3500E+07 | /.1/30E-01 | 1.4000E+07 | 6.9290E-01 | 1.4500E+07 | 6.6980E-011148 | 3 1 | 133 |
| 1.5000F+07 | 6-4800F-01 | 1.5500F+07 | 6-2740F-01 | 1.6000F+07 | 6-0780F-011148 | 3 1 | 134 |
| 1 45005.07 | E 9030E 01 | 1 70005+07 | 5 71705-01 | 1 75005.07 | E E 00E 01116 | 2 1 | 125 |
| 1.00005401 | 2.8430E=01 | 1.70002+07 | 5.71702-01 | 1.7500E+07 | 3.3490E-011148 | 5 1 | 135 |
| 1.8000E+07 | 5.3900E-01 | 1.8500E+07 | 5.2380E-01 | 1.9000E+07 | 5.0930E-011148 | 3 1 | 136 |
| 1 95005+07 | 4.9550F-01 | 2.0000F+07 | 4.82305-01. | -0. | 0. 1148 | ור | 137 |
| 1.75002.00 | 4.7.3 JOL-01 | 2.0000000000 | 4002.00 -01 | •• | 1140 | | |
| | | | | | 1148 | 3 0 | 138 |
| 1.001 E+03 | 9,9917F-01 | 0 | 0 | 0 | 01148 | 3 2 | 139 |
| 0 | 0 | Ā | | 1 | 1241149 | | 140 |
| 0. | 0. | 0 | U | 1 | 1341146 | 3 6 | 140 |
| 134 | 5 | | | | 1148 | 32 | 141 |
| 1 00005-05 | 2 04495.01 | 2.00005-05 | 2.04496.01 | 5.00006-05 | 2.04495.011148 | 3 2 | 142 |
| 1.0000105 | 2.04472401 | 2.000002-05 | 2.04472401 | 5.00002-05 | 2.04472+011140 | 5 2 | 142 |
| 1.0000F-04 | 2.0449E+01 | 2.0000E-04 | 2.0449E+01 | 5.0000E-04 | 2.0449E+011148 | 32 | 143 |
| 1.0000E-03 | 2.0449F+01 | 2-0000E-03 | 2.0449F+01 | 5-0000F-03 | 2.0449E+011148 | 3 2 | 144 |
| 1.00000 05 | | | | | | 5 2 | |
| 1.0000E-02 | 2.0449E+01 | 2.5300E-02 | 2.0449E+01 | 1.0000E+02 | 2.0449E+011148 | 3 2 | 145 |
| 1 - 0000F + 03 | 2.0329F+01 | 2.0000E+03 | 2.0198F+01 | 3.0000E+03 | 2.0068E+011148 | 3 2 | 146 |
| 4 00005+02 | 1 00/15+01 | 5 00005+03 | 1 00166.01 | 6 00005+03 | 1 960154011149 | 2 2 | 147 |
| 4.0000E+03 | 1.77412+01 | 3.0000L+03 | 1.78152+01 | 0.00002+0.5 | 1.70712+011148 | 5 6 | 141 |
| 8.0000E+03 | 1.9448E+01 | 1.0000E+04 | 1.9213E+01 | 1.5000E+04 | 1.8651E+011148 | 32 | 148 |
| 2.00005+04 | 1.8126E+01 | 2-5000F+04 | 1.7634F+01 | 3-0000E+04 | 1.7172F+011148 | 3 2 | 149 |
| 2 500002 01 | 1 (7070.01 | 4 00005.04 | 1 (2075.01 | 6 50005.06 | 1 50415-011140 | 2 2 | 150 |
| 3.50001+04 | 1.0/3/6+01 | 4.00002+04 | 1.03276+01 | 4.50002+04 | 1+37416+011148 | 3 C | 150 |
| 5.0000E+04 | 1.5575E+01 | 5.5000E+04 | 1.5228E+01 | 6.0000F.+04 | 1.4900E+011148 | 32 | 151 |
| 6 50005+04 | 1 45975+01 | 7 00005+04 | 1 42015+01 | 7 50005.04 | 1 400954011149 | 2 2 | 152 |
| 0.50002+04 | 1.43872+01 | 7.000E+04 | 1.42.716.401 | 1.30002+04 | 1.4008E+011148 | 5 2 | 152 |
| 8.0000E+04 | 1.3738E+01 | 8.5000E+04 | 1.3481E+01 | 9.0000E+04 | 1.3235E+011148 | 3 2 | 153 |
| 9.5000F+04 | 1.2999F+01 | 1.0000F+05 | 1.2774F+01 | 1.10005+05 | 1.2351E+011148 | 3 2 | 154 |
| 1 20000 00 | | 1 20005.05 | 1 1/075-01 | | | | 100 |
| 1.2000E+05 | 1.19046+01 | 1+30000+03 | 1.10076+01 | 1.40000.405 | 1+12/50+011148 | <u> </u> | 122 |
| 1.5000E+05 | 1.0965E+01 | 1.6000E+05 | 1.0673E+01 | 1.7000E+05 | 1.0398E+011148 | 3 2 | 156 |
| 1 90005405 | 1 01405+01 | 1 90005+05 | 9 89805+00 | 2 00005+05 | 9.67105+001144 | 2 2 | 157 |
| 1.50002.403 | 1.01402+01 | 1.4000L+05 | 3.03HUL+00 | 2.00001.00 | 3.07101+001140 | 5 6 | 157 |
| 2.2000E+05 | 9,2580E+00 | 2.4000E+05 | 8.8920E+00 | 2.6000E+05 | 8.5620E+001148 | 32 | 158 |
| 2 80005+05 | 8.2620F+00 | 3.0000E+05 | 7.9870F+00 | 3.20005+05 | 7.7340F+001148 | 3 2 | 159 |
| 2.100002.00 | | 5.00002.05 | | | 1013402.001140 | 5 2 | 1.57 |
| 3.4000E+05 | 1.5010E+00 | 3.6000E+05 | /.2840E+00 | 3.8000E+05 | 7.0830E+001148 | 32 | 100 |
| 4.0000F+05 | 6.8970E+00 | 4.2000E+05 | 6.7250F+00 | 4.4000E+05 | 6.5650E+001148 | 3 2 | 161 |
| 4 4000EL0E | 6 41505+00 | 4 80005 +05 | 6 27505 +00 | 5 00005.05 | 6 14305+001148 | 2 2 | 162 |
| 4.HUUUE +0.3 | 0.41302+00 | 4.0000L+03 | 0.27302+00 | 3.0000L+03 | 0.14302+001148 | 5 2 | 102 |
| 5.5000F+05 | 5.8450E+00 | 6.0000E+05 | 5.5840E+00 | 6.5000E+05 | 5+3540E+001148 | 32 | 163 |
| 7.0000E+05 | 5-1480F+00 | 7.5000F+05 | 4-9640F+00 | 8.0000F+05 | 4.7970E+001148 | 3 2 | 164 |
| | 4 44505.00 | 0 00005.05 | 4 50605.00 | 0 50005.05 | 4 37605.001160 | 2 2 | 145 |
| 0.5000E+05 | 4.64502 +00 | 9.0000E+05 | 4.50602+00 | 9.5000E+05 | 4.3/80E+001148 | 3 C | 102 |
| 1.0000E+06 | 4.2610E+00 | 1.1000E+06 | 4.0510E+00 | 1.2000E+06 | 3.8680E+001148 | 32 | 166 |
| 1 20005+06 | 3 70605+00 | 1.40005+06 | 3 56105+00 | 1.50005+06 | 3.42905+001149 | 3 2 | 167 |
| 1.30000 +00 | 3.10002.400 | 1.40002+00 | 5.50102.00 | 1.50002+00 | 5.42901 +001148 | 5 2 | 101 |
| 1.6000E+06 | 3+3090E+00 | 1./000E+06 | 3.1980E+00 | 1.8000E+06 | 3.09701+001148 | 3 2 | 108 |
| 1,9000F+06 | 3.0030F+00 | 2.0000E+06 | 2,9150F+00 | 2,2000E+06 | 2.7590E+001148 | 3 2 | 169 |
| 3 40005.04 | 3 43305.00 | 2 60005.04 | 2 50105.00 | 2 80005.04 | 2 30205+001140 | - · | 170 |
| 2.40000,+00 | 2+022VE+00 | 2+00002+00 | 2.00102.00 | 2.0000E+00 | 2+37200+001148 | 5 6 | 1/0 |
| 3.0000F+06 | 2.2930E+00 | 3-2000E+06 | 2.2030E+00 | 3.4000E+06 | 2+1200E+001148 | 32 | 171 |
| 3.60005+06 | 2.0430F+00 | 3-8000F+06 | 1.9730F+00 | 4.0000F+06 | 1.9070F+001148 | 3 2 | 172 |
| | | | | | 1 70/07 001140 | ~ ~ | |
| 4.2000E+06 | 1.84506+00 | 4.4000E+06 | 1 . 1980E+00 | 4.0000E+06 | 1.1340E+001148 | 5 2 | 1/3 |
| 4.8000E+06 | 1.6830E+00 | 5.0000E+06 | 1.6350E+00 | 5.2000E+06 | 1.5890E+001148 | 3 2 | 174 |
| 5 40005+04 | 1 54705+00 | 5.60005.04 | 1 50605+00 | 5 80005+04 | 1.4670E+001149 | 2 2 | 170 |
| J | 1.00+102+00 | | | | 1.4401014001140 | 5 C | 113 |
| 6.0000F+06 | 1.4300E+00 | 6+2000E+06 | I+3A20E+00 | 0.4000E+06 | 1.3620E+001148 | 32 | 176 |
| 6-6000F+06 | 1.3290F+00 | 6.8000F+06 | 1.2990F+00 | 7.0000F+06 | 1.2690E+001148 | 3 2 | 177 |
| 7 50005 001 | 1 20100-00 | | 1 12005.00 | 0 50005.00 | 1 00000 001140 | | 170 |
| 1.5000E+06 | 1.2010F+00 | 0.0000E+06 | 1.13406+00 | 0.0005+00 | 1.08306+001148 | 3 2 | 1/8 |
| 9.0000E+06 | 1.0320E+00 | 9.5000E+06 | 9.8590E-01 | 1.0000E+07 | 9.4320E-011148 | 3 2 | 179 |
| 1 05005-07 | 0 03505 01 | 1 10005.07 | 8 44EAE 01 | 1 15005.07 | 9 34305-011149 | 2 2 | 100 |
| 1.0500E+07 | Y•U35UE-01 | 1.10000+0/ | 0.0070E-01 | 1.13006+0/ | 5+323UE-011148 | <u>ع د</u> | 190 |
| 1.2000F+07 | 8.0050E-01 | 1.2500E+07 | 7.7100E-01 | 1.3000E+07 | 7.4330E-011148 | 32 | 181 |
| 1 35005.07 | 7 17205-01 | 1 40005+07 | 6 02005-01 | 1 45005+07 | 6.6980F-011149 | 2 2 | 142 |
| 1.32006.401 | 1.17.50E-01 | 1.40002407 | 0.72702-01 | 1.0-JUUE+U/ | 0.070UE=UIII48 | | 102 |
| 1.5000E+07 | 6.4800E-01 | 1.5500E+07 | 6.2740E-01 | 1.6000E+07 | 6.0780E-011148 | 32 | 183 |
| 1.65005+07 | 5.8930F-01 | 1.7000F+07 | 5.7170F-01 | 1.7500F+07 | 5.5490F-01114A | 3 2 | 184 |
| | | 1 46005.07 | E 3300E 01 | 1 00005.07 | E 0020E-0111/0 | 5 5 | 100 |
| 1+8000E+07 | 2.3400F-01 | 1+42005+01 | 3+2300E-01 | 1.90002+07 | 3+04306-011148 | 5 6 | 142 |
| 1.9500F+07 | 4.9550F-01 | 2.0000E+07 | 4.8230E-01. | -0 | -0. 1149 | 3 2 | 186 |
| | | | | | | | 1.07 |
| | | | | | 11/0 | 2 ^ | |
| | | | | - | 1148 | 3 0 | 187 |
| 1.001 E+03 | 9.9917E-01 | 0 | 0 | 0 | 1148 01148 | 3 0 3102 | 187 |
| 1.001 E+03 | 9.9917E-01 | 0 | 0 | 0 1 | 1148 01148 1341148 | 3 0 3102 3102 | 187 188 189 |
| 1.001 E+03 0.0 | 9.9917E-01 2.2247 E+06 | 0 0 | 0 0 | 0 1 | 1148 01148 1341148 | 3 0 3102 3102 | 187 |

| 1.0000E-09 1.0000E-09 1.0000E-03 | 1.6609F+01 | | | | | | | |
|--|--|---|--|---|---|---|--|---|
| 1.0000E-04 1.0000E-03 | | 2.0000E-05 | 1.1808E+01 | 5.0000E-05 | 7.4682E+001 | 148 | 3102 | 191 |
| 1.0000E-0 | 5.2808F+00 | 2.0000F-04 | 3,7341F+00 | 5.0000F-04 | 2-3616E+001 | 148 | 3102 | 192 |
| 1.0000E-0. | | 2 00005 03 | 1 10005.00 | E 0000E 03 | 7 44925-011 | 1.0 | 2102 | 102 |
| | 1.00335+00 | 2.0000E=03 | 1.10082+00 | 5.0000E=03 | 1.4082C-011 | 140 | 3102 | 195 |
| 1.0000E-02 | 2 5.2808E-01 | 2.5300E-02 | 3.3200E-01 | 1.0000E+02 | 5.2770E-031 | 148 | 3102 | 194 |
| 1,0000F+0 | 1.6590F-03 | 2.0000F+03 | 1,1926E-03 | 3.0000F+03 | 9.7008F-041 | 148 | 3102 | 195 |
| 4 00005.00 | | 5 00005.03 | 7 37675 06 | 6 00005.03 | 4 4410E 041 | | 2102 | 104 |
| 4.000000000 | 0 8.3240E-04 | 2100005403 | 1.31416-04 | 0.0000E+03 | 0.00192-041 | 140 | 3102 | 190 |
| 8.0000E+0 | 5.6518E-04 | 1.0000E+04 | 4.9580E-04 | 1.5000E+04 | 3.8782E-041 | 148 | 3102 | 197 |
| 2.00005+04 | 3.2386F-04 | 2.50005+04 | 2.8064E-04 | 3.0000F+04 | 2.4909F-041 | 148 | 3102 | 198 |
| | | 4 000000 000 | | 6 50005.06 | 1 00705 041 | | 2102 | 100 |
| 3.50000000 | - 2.7248E-04 | 4.0000E+04 | 2.05536-04 | 4.500000404 | 1.09706-041 | 148 | 3102 | 144 |
| 5.0000E+04 | 1.7646E-04 | 5.5000E+04 | 1.6518E-04 | 6.0000E+04 | 1.5544E-041 | 148 | 3102 | 200 |
| 6 5000E+0 | 1.4693F-04 | 7.0000F+04 | 1.39425-04 | 7.5000F+04 | 1-3273E-041 | 148 | 3102 | 201 |
| | | B 6000E.04 | 1 21225-04 | 0 00005.04 | 1 16405-041 | 1.0 | 2102 | 202 |
| 8.00006.00 | 1.20/3E-04 | B.5000E+04 | 1.21.325-04 | 9.0000E+04 | 1.10402-041 | 140 | 3102 | 202 |
| 9.5000E+04 | • 1.1191E-04 | 1.0000E+05 | 1.0780E-04 | 1.1000E+05 | 1.0019E-041 | 148 | 3102 | 203 |
| 1,2000F+0 | 9.3717E-05 | 1.3000E+05 | 8.8131E-05 | 1.4000E+05 | 8.3256F-051 | 148 | 3102 | 204 |
| 1 50005.00 | 7 00405-05 | 1 40005405 | 7 51425-05 | 1 70005.05 | 7 17255-051 | 140 | 2102 | 205 |
| | | | | | | 140 | 2102 | 205 |
| 1.80006+0 | 0.8045E-05 | 1.90002+05 | 0.58531-05 | 2.0000E+05 | 6.3310E-051 | 148 | 3102 | 200 |
| 2.2000E+0 | 5 5.9051E-05 | 2.4000E+05 | 5.5591E-05 | 2.6000E+05 | 5.2/31E-051 | 148 | 3102 | 207 |
| 2-8000F+0 | 5.0330E-05 | 3.0000E+05 | 4.8290E-05 | 3.2000E+05 | 4.6538E-051 | 148 | 3102 | 208 |
| 3 40005+0 | 4 50185-05 | 3.6000E+05 | 4.3691F-05 | 3.8000E+05 | 4.2523E=051 | 148 | 3102 | 209 |
| 3.4000E+0. | , 4. 1400E 05 | 6 3000E.05 | 4 0407E 0E | 6 6000E+05 | | 140 | 2102 | 210 |
| 4.0000E+0 | → 4.1490E-05 | 4.20002+05 | 4.000/E-05 | 4.40002+05 | 3.9828E-051 | 148 | 3102 | 210 |
| 4.6000E+0 | 5 3 . 9138E-05 | 4.8000E+05 | 3.8525E-05 | 5.0000E+05 | 3.79B0E-051 | 148 | 3102 | 211 |
| 5.5000F+0 | 3.7396F-05 | 6.0000F+05 | 3.6870F-05 | 6.5000F+05 | 3.6163F-051 | 148 | 3102 | 212 |
| 7 00005+0 | 3 55205-05 | 7 50005+05 | 3.51675-05 | 8 00005+05 | 3.48405-051 | 148 | 3102 | 217 |
| 1.0000E+0 | 5 3.5520E-05 | 1.5000E+05 | 3.31016-03 | 0.00002+03 | 3.40402-031 | 140 | 5102 | 213 |
| 8.5000E+0 | 5 3.4742E-05 | 9.0000E+05 | 3.4650E-05 | 9.5000E+05 | 3.4552E-051 | 148 | 3102 | 214 |
| 1.0000E+0 | 3.4460E-05 | 1.1000E+06 | 3.4440E-05 | 1.2000E+06 | 3.4410E-051 | 148 | 3102 | 215 |
| 1 3000F+0 | 3 44905-05 | 1.4000E+06 | 3.43605-05 | 1.5000F+06 | 3.4340F-051 | 148 | 3102 | 216 |
| 1.00000000 |) J.4490[-0] | 1 70000 .06 | 3 43000 05 | 1.00000.06 | | 140 | 2102 | 217 |
| 1.6000E+0 | 3.4310E-05 | 1.7000E+06 | 3.4290E-05 | 1-90005+00 | 3.42/0E-051 | 148 | 3102 | 217 |
| 1.9000E+0 | 5 3. 4250E-05 | 2.0000E+06 | 3.4230E-05 | 2.2000E+06 | 3.4520E-051 | 148 | 3102 | 218 |
| 2-4000F+0 | 3.4810F-05 | 2.6000F+06 | 3.5100F-05 | 2.8000F+06 | 3.5390F-051 | 148 | 3102 | 219 |
| 3 00005+0 | 3 54905-05 | 3 20005+06 | 3 58005-05 | 3 40005406 | 3 59105-051 | 140 | 2102 | 220 |
| 3.000000000 | 3.3HOVE-03 | 3.20002.00 | 3.30002-03 | | 3.37102-031 | 140 | 5102 | 220 |
| 3.6000E+0 | 5 3.6030E-05 | 3-8000E+06 | 3.0140E-05 | 4.0000E+06 | 3.6260E-051 | 148 | 3102 | 221 |
| 4.2000F+0 | 5 3.6290E-05 | 4.4000E+06 | 3.6320E-05 | 4.6000E+06 | 3.6360E-051 | 148 | 3102 | 222 |
| 4-8000F+0 | 3-6390F-05 | 5.0000F+06 | 3-6420F-05 | 5.2000F+06 | 3.6290F-051 | 148 | 3102 | 223 |
| E 4000E.0 | | E 6000E.06 | 3 40405-05 | E 0000E.04 | 3 50105-051 | 1.0 | 2102 | 224 |
| 5.4000F+0 | 3.010VE-03 | 3.0000E+00 | 3.00402-05 | 3.0000E+00 | 3.59106-051 | 140 | 3102 | 224 |
| 6.0000E+0 | 5 3 . 5780E−05 | 6+2000E+06 | 3.5670E-05 | 6.4000E+06 | 3.5560E-051 | 148 | 3102 | 225 |
| 6.6000F+0 | 3.5450F-05 | 6.8000E+06 | 3.5340E-05 | 7.0000E+06 | 3.5230E-051 | 148 | 3102 | 226 |
| 7 5000540 | 3 45005-05 | 8.0000E+06 | 3.39405-05 | 8.5000E+06 | 3.36405-051 | 148 | 3102 | 227 |
| 1.3000E+0 | 5 5.4570E-05 | | | 1 00000 007 | 3.30402-051 | 140 | 3102 | 221 |
| 9.0000E+0 | 5 3.3330E-05 | 9.5000E+06 | 3+29601-05 | 1.0000E+07 | 3.2590E-051 | 148 | 3102 | 228 |
| 1.0500E+0 | 3.2210E-05 | 1.1000E+07 | 3.1820E-05 | 1.1500E+07 | 3.1450E-051 | 148 | 3102 | 229 |
| 1,2000F+0 | 3.1080F-05 | 1.2500F+07 | 3.0630F-05 | 1.3000F+07 | 3.0180F-051 | 148 | 3102 | 230 |
| 1 2500540 | 3 00105-05 | 1 40005+07 | 2 98305-05 | 1 45005+07 | 2 94005-051 | 140 | 2102 | 231 |
| 1.33002+0 | 3.0010E-03 | | 2.70302-03 | 1.43002.407 | 2.9400E-031 | 140 | 2105 | 231 |
| 1.5000E+0 | 2.8960E-05 | 1.5500E+0/ | 2.8630E-05 | 1.6000E+07 | 2.83001-051 | | | ~~~ |
| | | | | | 2000000 001 | 148 | 3102 | 232 |
| 1.6500E+0 | 2.7880E-05 | 1.7000E+07 | 2.7450E-05 | 1.7500E+07 | 2.7360E-051 | 148 148 | 3102 3102 | 232 233 |
| 1.6500E+0 | 2.7260E-05 | 1.7000E+07 | 2.7450E-05 | 1.7500E+07 | 2.7360E-051 2.6200E-051 | 148 148 148 | 3102 3102 3102 | 232 233 234 |
| 1.6500E+0 1.8000E+0 | 2.7880E-05 | 1.7000E+07 1.8500E+07 | 2.7450E-05 2.6730E-05 | 1.7500E+07 1.9000E+07 | 2.7360E-051 2.6200E-051 | 148 148 148 | 3102 3102 3102 | 232 233 234 |
| 1.6500E+0 1.8000E+0 1.9500E+0 | 2.7880E-05 2.7260E-05 2.6120E-05 | 1.7000E+07 1.8500E+07 2.0000E+07 | 2.7450E-05 2.6730E-05 2.6040E-05 | 1.7500E+07 1.9000E+07 -0. | 2.7360E-051 2.6200E-051 -0. 1 | 148 148 148 148 | 3102 3102 3102 3102 | 232 233 234 235 |
| 1.6500E+0 1.8000E+0 1.9500E+0 | 2.7880E-05 2.7260E-05 2.6120E-05 | 1.7000E+07 1.8500E+07 2.0000E+07 | 2.7450E-05 2.6730E-05 2.6040E-05 | 1.7500E+07 1.9000E+07 -0. | 2.7360E-051 2.6200E-051 -0. 1 | 148 148 148 148 148 | 3102 3102 3102 3102 3102 3 0 | 232 233 234 235 236 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 | 2.7880E-05 2.7260E-05 2.6120E-05 3 9.9917E-01 | 1.7000E+07 1.8500E+07 2.0000E+07 | 2.7450E-05 2.6730E-05 2.6040E-05 | 1.7500E+07 1.9000E+07 -0. | 2.7360E-051 2.6200E-051 -0. 1 0. 1 | 148 148 148 148 148 148 | 3102 3102 3102 3102 3102 3 0 3251 | 232 233 234 235 236 237 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 | 2.7880E-05 2.7260E-05 2.6120E-05 9.99917E-01 | 1.7000E+07 1.8500E+07 2.0000E+07 | 2.7450E-05 2.6730E-05 2.6040E-05 | 1.7500E+07 1.9000E+07 -0. 0 | 2.7360E-051 2.6200E-051 -0. 1 01 | 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3102 3 0 3251 | 232 233 234 235 236 237 238 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 | 2.7880E-05 2.7260E-05 2.6120E-05 3.9.9917E-01 0.0 | 1.7000E+07 1.8500E+07 2.0000E+07 0 | 2.7450E-05 2.6730E-05 2.6040E-05 0 | 1.7500E+07 1.9000E+07 -0. 0 | 2.7360E-051 2.6200E-051 -0. 1 01 141 | 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3102 3 0 3251 3251 | 232 233 234 235 236 237 238 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 | 2.7880E-05 2.7260E-05 2.6120E-05 3.9.9917E-01 0.0 3.3 | 1.7000E+07 1.8500E+07 2.0000E+07 0 | 2.7450E-05 2.6730E-05 2.6040E-05 0 | 1.7500E+07 1.9000E+07 -0. 0 | 2.7360E-051 2.6200E-051 -0. 1 01 141 | 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3102 3 3251 3251 3251 | 232 233 234 235 236 237 238 239 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.001 E+0 1.00 E-0 | 2.7880E-05 2.7260E-05 2.6120E-05 3.9.9917E-01 0.0 5.3 56.65213E-01 | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 6.65213E-01 | 1.7500E+07 1.9000E+07 -0. 0 1 5.0 E+05 | 2.7360E-051 2.6200E-051 -0. 1 01 01 141 6.64899E-011 | 148 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3102 3251 3251 3251 3251 | 232 233 234 235 236 237 238 239 240 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.00 E+0 1.0 E-0 1.0 E+0 | 2.7880E-05 2.7260E-05 2.6120E-05 3.9.9917E-01 0.0 3.3 56.65213E-01 56.64620E-01 | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 F+06 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 6.65213E-01 6.64149E-01 | 1.7500E+07 1.9000E+07 -0. 0 5.0 E+05 4.0 F+06 | 2.7360E-051 2.6200E-051 -0. 1 01 141 6.64899E-011 6.63355E-011 | 148 148 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3251 3251 3251 3251 3251 | 232 233 234 235 236 237 238 239 240 241 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.0 E-0 1.0 E-0 1.0 E+0 | 2.7880E-05 7 2.7260E-05 7 2.6120E-05 8 9.9917E-01 0.0 3 56.65213E-01 56.64620E-01 | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 E+06 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 6.65213E-01 6.64149E-01 | 1.7500E+07 1.9000E+07 -0. 0 1 5.0 E+05 4.0 E+05 | 2.7360E-051 2.6200E-051 -0. 1 01 141 6.64899E-011 6.63355E-011 | 148 148 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3251 3251 3251 3251 3251 | 232 233 234 235 236 237 238 239 240 241 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.0 E-0 1.0 E-0 6.0 E+0 | 2.7880E-05 2.7260E-05 2.6120E-05 3.9.9917E-01 0.0 5.6.65213E-01 5.6.64620E-01 5.6.62628E-01 | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 E+06 8.0 E+06 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 6.65213E-01 6.64149E-01 6.62018E-01 | 1.7500E+07 1.9000E+07 -0. 0 5.0 E+05 4.0 E+06 1.0 E+07 | 2.7360E-051 2.6200E-051 -0. 1 01 141 6.64899E-011 6.63355E-011 6.61338E-011 | 148 148 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3 0 3251 3251 3251 3251 3251 3251 | 232 233 234 235 236 237 238 239 240 241 242 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.0 E+0 1.0 E+0 6.0 E+0 1.2 F+0 | 2.7880E-05 2.7260E-05 2.6120E-05 3.9.9917E-01 0.0 3.56.65213E-01 56.64620E-01 56.64620E-01 56.62628E-01 76.61045E-01 | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 E+06 8.0 E+06 1.4 E+07 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 6.65213E-01 6.64149E-01 6.62018E-01 5.60449E-01 | 1.7500E+07 1.9000E+07 -0. 0 5.0 E+05 4.0 E+06 1.0 E+07 1.6 E+07 | 2.7360E-051 2.6200E-051 -0. 1 141 6.64899E-011 6.63355E-011 6.61338E-011 6.59929E-011 | 148 148 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3 0 3251 3251 3251 3251 3251 3251 3251 | 232 233 234 235 236 237 238 239 240 241 242 243 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.0 E+0 1.0 E+0 6.0 E+0 1.2 E+0 1.8 E+0 | <pre>2.7880E-05 7 2.7260E-05 7 2.6120E-05 8 9.9917E-01 0.0 3 56.65213E-01 56.64620E-01 56.64620E-01 56.62628E-01 76.61045E-01 76.59540E-01</pre> | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 E+06 8.0 E+06 1.4 E+07 2.0 E+07 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 6.65213E-01 6.64149E-01 6.62018E-01 6.60449E-01 6.59196E-01 | 1.7500E+07 1.9000E+07 -0. 0 1 5.0 E+05 4.0 E+06 1.0 E+07 1.6 E+07 | 2.7360E-051 2.6200E-051 -0. 1 141 6.64899E-011 6.6335E-011 6.61338E-011 6.59929E-011 | 148 148 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3 0 3251 3251 3251 3251 3251 3251 3251 | 232 233 234 235 236 237 238 239 240 241 242 243 244 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.0 E+0 1.0 E+0 6.0 E+0 1.2 E+0 1.8 E+0 | 2.7880E-05 2.7260E-05 2.6120E-05 3.9.9917E-01 0.0 3.56.65213E-01 56.64620E-01 56.62628E-01 76.61045E-01 76.59540E-01 | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 E+06 8.0 E+06 1.4 E+07 2.0 E+07 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 6.65213E-01 6.64149E-01 6.62018E-01 6.60449E-01 6.59196E-01 | 1.7500E+07 1.9000E+07 -0. 0 5.0 E+05 4.0 E+06 1.0 E+07 1.6 E+07 | 2.7360E-051 2.6200E-051 -0. 1 141 6.64899E-011 6.63355E-011 6.61338E-011 6.59929E-011 | 148 148 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3102 3251 3251 3251 3251 3251 3251 3251 325 | 232 233 234 235 236 237 238 239 240 241 242 243 244 245 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.0 E+0 1.0 E+0 1.0 E+0 1.2 F+0 1.8 E+0 | 2.7880E-05 2.7260E-05 2.6120E-05 3.9.9917E-01 0.0 56.65213E-01 56.64620E-01 56.62628E-01 76.61045E-01 76.59540E-01 | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 E+06 8.0 E+06 1.4 E+07 2.0 E+07 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 6.65213E-01 6.64149E-01 6.62018E-01 5.60449E-01 6.59196E-01 | 1.7500E+07 1.9000E+07 -0. 0 5.0 E+05 4.0 E+06 1.0 E+07 1.6 E+07 | 2.7360E-051 2.6200E-051 -0. 1 141 141 6.64899E-011 6.63355E-011 6.59929E-011 1 | 148 148 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3102 3251 3251 3251 3251 3251 3251 3251 325 | 232 233 234 235 236 237 238 239 240 241 242 243 244 244 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.0 E-0 1.0 E-0 1.0 E+0 6.0 E+0 1.2 F+0 1.8 E+0 1.8 E+0 | <pre>2.7880E-05 7 2.7260E-05 7 2.6120E-05 8 9.9917E-01 0.0 3 56.65213E-01 56.64620E-01 56.64620E-01 56.62628E-01 76.61045E-01 76.959540E-01 8 9.9917E-01</pre> | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 E+06 8.0 E+06 1.4 E+07 2.0 E+07 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 0 6.65213E-01 6.65213E-01 6.62018E-01 6.69196E-01 6.59196E-01 | 1.7500E+07 1.9000E+07 -0. 0 5.0 E+05 4.0 E+06 1.0 E+07 1.6 E+07 0 | 2.7360E-051 2.6200E-051 -0. 1 141 141 6.64899E-011 6.63355E-011 6.61338E-011 6.59929E-011 1 1 | 148 148 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3251 3251 3251 3251 3251 3251 3251 325 | 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 |
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| 1.6500E+0 1.8000E+0 1.9500E+0 0.0 1.001 E+0 0.0 1.0 E-0 1.0 E+0 0.0 E+0 1.2 F+0 1.8 E+0 1.001 E+0 0.0 | 2.7880E-05 2.7260E-05 2.6120E-05 3.9.9917E-01 0.0 56.65213E-01 56.64620E-01 56.62628E-01 76.61045E-01 76.61045E-01 76.59540E-01 3.9.9917E-01 0.0 2.2 2.7260E-05 3.9.9917E-01 | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 E+06 8.0 E+06 1.4 E+07 2.0 E+07 0 0 0 0 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 6.65213E-01 6.64149E-01 6.62018E-01 6.62449E-01 6.59196E-01 0 0 | 1.7500E+07 1.9000E+07 -0. 0 5.0 E+05 4.0 E+06 1.0 E+07 1.6 E+07 0 1 | 2.7360E-051 2.6200E-051 -0. 1 141 141 6.64899E-011 6.63355E-011 6.61338E-011 6.59929E-011 1 1 01 21 | 148 148 148 148 148 148 148 148 148 148 1488 1488 1488 1488 1488 1488 1488 1488 1488 1488 | 3102 3102 3102 3102 3251 3251 3251 3251 3251 3251 3251 325 | 232 233 234 235 236 237 238 240 241 242 243 244 245 244 245 246 248 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.0 E+0 1.0 E+0 1.0 E+0 1.2 F+0 1.8 E+0 1.8 E+0 1.001 E+0 0.0 | <pre>2.7880E-05 7 2.7260E-05 7 2.6120E-05 8 9.9917E-01 0.0 3 56.65213E-01 56.64620E-01 56.64620E-01 76.61045E-01 76.61045E-01 76.959540E-01 8 9.9917E-01 0.0 2 5.1.0 </pre> | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 E+06 8.0 E+06 1.4 E+07 2.0 E+07 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 1.7500E+07 1.9000E+07 -0. 0 5.0 E+05 4.0 E+06 1.0 E+07 1.6 E+07 0 1 | 2.7360E-051 2.6200E-051 -0. 1 141 141 6.64899E-011 6.63355E-011 6.61338E-011 6.59929E-011 1 1 01 21 1 | 148 148 1488 1488 1488 1488 1488 1488 1 | 3102 3102 3102 3102 3251 3251 3251 3251 3251 3251 3251 325 | 232 233 234 2356 237 238 239 240 241 242 244 244 244 244 244 244 244 244 |
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| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.0 E-0 1.0 E+0 0.0 E+0 1.2 F+0 1.8 E+0 1.001 E+0 1.0 E-0 1.0 E- | <pre>7 2.7880E-05 7 2.7260E-05 7 2.6120E-05 8 9.9917E-01 0.0 3 3 66.65213E-01 3 66.64620E-01 3 66.62628E-01 76.61045E-01 76.61045E-01 8 9.9917E-01 0.0 2 2 5 1.0 3 9.9917E-01</pre> | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 E+06 8.0 E+06 1.4 E+07 2.0 E+07 0 2.0 E+07 0 2.0 E+07 0 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 0 6.65213E-01 6.64149E-01 6.64149E-01 6.6449E-01 6.59196E-01 0 0 1.0 | 1.7500E+07 1.9000E+07 -0. 0 5.0 E+05 4.0 E+06 1.0 E+07 1.6 F+07 0 1 | 2.7360E-051 2.6200E-051 -0. 1 141 141 16.64899E-011 6.63355E-011 6.61338E-011 6.59929E-011 1 1 01 21 1 1 01 01 01 01 01 01 01 01 | 148 148 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3251 3251 3251 3251 3251 3251 3251 325 | 232 233 234 2356 237 238 239 240 241 242 243 244 244 244 244 244 245 246 247 248 249 251 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.0 E-0 1.0 E-0 1.0 E+0 0.0 E+0 1.2 F+0 1.8 E+0 1.001 E+0 0.0 1.0 E-0 1.001 E+0 0.0 | <pre>2.7880E-05 7 2.7260E-05 7 2.6120E-05 3 9.9917E-01 0.0 3 36.65213E-01 36.64620E-01 36.64620E-01 76.61045E-01 76.61045E-01 76.59540E-01 3 9.9917E-01 0.0 2 2 3 1.0 3 9.9917E-01 0.0</pre> | 1.7000E+07 1.8500E+07 2.0000E+07 0 1.0 E+05 2.0 E+06 8.0 E+06 1.4 E+07 2.0 E+07 0 0 2.0 E+07 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 6.65213E-01 6.64149E-01 6.62018E-01 6.60449E-01 6.59196E-01 0 0 1.0 0 | 1.7500E+07 1.9000E+07 -0. 0 5.0 E+05 4.0 E+06 1.0 E+07 1.6 E+07 0 1 0 1 0 1 | 2.7360E-051 2.6200E-051 -0. 1 141 141 6.64899E-011 6.63355E-011 6.61338E-011 6.59929E-011 1 1 01 21 1 1 1 01 21 1 1 1 1 21 21 21 21 21 2 | 148 148 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3251 3251 3251 3251 3251 3251 3251 325 | 232 233 234 2356 237 238 239 240 241 242 243 244 245 245 245 248 245 248 250 252 |
| 1.6500E+0 1.8000E+0 1.9500E+0 1.001 E+0 0.0 1.0 E-0 1.0 E-0 1.0 E+0 0.0 E+0 1.2 F+0 1.8 E+0 1.001 E+0 0.0 1.0 E-0 1.001 E+0 0.0 | 7 2.7880E-05 7 2.7260E-05 7 2.6120E-05 3 9.9917E-01 0.0 3 3 56.65213E-01 56.64620E-01 56.62628E-01 76.61045E-01 76.61045E-01 76.61045E-01 3 9.9917E-01 0.0 2 1.0 3 9.9917E-01 | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 E+06 8.0 E+06 1.4 E+07 2.0 E+07 0 0 2.0 E+07 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 6.65213E-01 6.64149E-01 6.62018E-01 6.60449E-01 6.59196E-01 0 0 1.0 0 | 1.7500E+07 1.9000E+07 -0. 0 5.0 E+05 4.0 E+06 1.0 E+07 1.6 E+07 0 1 0 1 0 | 2.7360E-051 2.6200E-051 -0. 1 141 141 6.64899E-011 6.63355E-011 6.61338E-011 6.59929E-011 1 01 21 1 01 21 1 | 148 148 148 148 148 148 148 148 148 148 | 3102 3102 3102 3102 3251 3251 3251 3251 3251 3251 3251 325 | 232 233 235 235 235 237 238 239 241 243 244 244 244 244 244 244 244 244 244 |
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| 1.6500E+0 1.8000E+0 1.9500E+0 1.9500E+0 1.001 E+0 0.0 1.0 E-0 1.0 E+0 1.0 E+0 1.2 F+0 1.8 E+0 1.001 F+0 0.0 1.0 E-0 1.001 E+0 0.0 1.0 E-0 1.001 E+0 0.0 | <pre>7 2.7880E-05 7 2.7260E-05 7 2.6120E-05 8 9.9917E-01 0.0 3 3 66.65213E-01 3 66.64620E-01 66.62628E-01 76.61045E-01 8 9.9917E-01 0.0 2 2 1.0 3 9.9917E-01 0.0 2 1.0 3 9.9917E-01 0.0</pre> | 1.7000E+07 1.8500E+07 2.0000E+07 0 0 1.0 E+05 2.0 E+06 8.0 E+06 1.4 E+07 2.0 E+07 0 2.0 E+07 0 2.0 E+07 0 0 2.0 E+07 0 0 0 0 0 0 0 0 0 0 0 0 0 | 2.7450E-05 2.6730E-05 2.6040E-05 0 0 0 6.65213E-01 6.64149E-01 6.64149E-01 6.60449E-01 6.59196E-01 0 1.0 0 1.0 2 2 | 1.7500E+07 1.9000E+07 -0. 0 5.0 E+05 4.0 E+06 1.0 E+07 1.6 F+07 0 1 0 1 0 0 0 0 0 | 2.7360E-051 2.6200E-051 -0. 1 141 141 16.64899E-011 6.63355E-011 6.61338E-011 6.59929E-011 1 1 01 21 1 1 01 01 01 01 01 01 | 148 | $\begin{array}{c} 3102\\ 3102\\ 3102\\ 3102\\ 3102\\ 3251\\ 3251\\ 3251\\ 3251\\ 3251\\ 3251\\ 3251\\ 3251\\ 3251\\ 3252\\ 3252\\ 3252\\ 3252\\ 3253\\ 3252\\ 3253\\ 3253\\ 3252\\ 3253\\ 3252\\ 3253\\ 3253\\ 3253\\ 3252\\ 3253\\ 3252\\ 3252\\ 3253\\ 3252\\ 3252\\ 3252\\ 3253\\ 3252\\ 3253\\ 3252\\ 3253\\ 3252\\$ | 232 233 2335 2336 2337 2339 241 2443 2445 2449 2449 251 253 2554 2556 2558 2556 2558 |
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| 0.0 | 1.0-05 | 0 | 0 | 1 | 11114 | 84 | 2 | 261 |
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| 11 | 2 | | | | 114 | 8 4 | 2 | 262 |
| _1 0 | | - 8 | .5 | 6 | 5114 | A 4 | 2 | 263 |
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| 11 | 2 | | | | 114 | 8 4 | 2 | 268 |
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| 11 | 2 | | | | 114 | 84 | 2 | 274 |
| -,10000F+01 | .50117E+00- | 80000E+00 | .50097E+00- | .60000E+00 | .50066E+00114 | 8 4 | 2 | 275 |
| 40000F+00 | -50045E+00- | - 20000F+00 | .50025F+000 | • | .50005E+00114 | 8 4 | 2 | 276 |
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| 10000E+01 | •20518E+00- | 80000E+00 | •20176E+00- | +60000E+00 | •20131E+00114 | 8 4 | 2 | 281 |
| 40000E+00 | .50089E+00- | 20000E+00 | •20044E+000 | • | •20000E+00114 | 8 4 | 2 | 282 |
| -20000F+00 | .49957E+00 | .40000E+00 | .49913E+00 | .60000F+00 | .49869E+00114 | 8 4 | 2 | 593 |
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| 40000E+00 | •20128E+00 | 20000E+00 | •20081F+000 | • | •20003E+00114 | 8 4 | 2 | 288 |
| .20000F+00 | .49925F.+00 | •40000E+00 | •49846E+00 | •0000E+00 | .49764E+00114 | 8 4 | 2 | 289 |
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| 40000E+00 | •20542222 | -•50000E+00 | •50143E+000 | • | •20011E+00114 | 8 4 | 2 | 294 |
| •50000E+00 | •49873E+00 | •40000E+00 | •49734E+00 | •0000E+00 | .49589E+00114 | 8 4 | 2 | 295 |
| .80000E+00 | .49441E+00 | .10000E+01 | •49283E+00 | | 114 | 8 4 | 2 | 296 |
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| - 100005+01 | 50009F+00. | 80000F+00 | -50770E+00- | - 60000E+00 | -50560F+00114 | Ā 4 | 2 | 299 |
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| 40000E+00 | •20365E+00- | 20000E+00 | •20177E+000 | • | .49993E+00114 | 8 4 | 2 | 300 |
| .20000F+00 | .49808F+00 | •40000E+00 | •49628E+00 | •0000E+00 | •49439E+00114 | 8 4 | 2 | 301 |
| .80000E+00 | .49246E+00 | .10000E+01 | •49040E+00 | | 114 | 8 4 | - 2 | 302 |
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| - 100005+01 | 51288F+00. | 80000F+00 | -50952E+00- | -60000F+00 | +50676F+00114 | 8 4 | 2 | 305 |
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| 11 | 2 | | | | 114 | 8 4 | - S | 310 |
| 10000E+01 | .51727E+00- | 80000E+00 | •21201E+00- | • 60000E+00 | •20794E+00114 | 8 4 | 2 | 311 |
| 40000F+00 | .50461E+00- | 20000E+00 | •20168F+000 | • | .49908E+00114 | 8 4 | 2 | 312 |
| 20000E+00 | 49669E+00 | 40000F+00 | .49435E+00 | .60000E+00 | .49202E+00114 | 8 4 | 2 | 313 |
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| 60000E+00 | .50898E+00 | 40000E+00 | •50475E+00- | •20000E+00 | •20129E+00114 | 8 4 | 2 | 318 |
| 0. | .49823E+00 | .20000E+00 | .49556E+00 | •40000E+00 | .49313E+00114 | 8 4 | 2 | 319 |
| -60000F+00 | 49085F+00 | .80000E+00 | •48866E+00 | .10000E+01 | .48654E+00114 | 8 4 | 2 | 320 |
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| 10000E+01 | .52H23E+00 | | + 72100E+UU= | | 600/0E-00114 | 0 4 | 2 | 757 |
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| 0. | .49703E+00 | •20000E+00 | •49431E+00 | •40000E+00 | .49195E+00114 | 8 4 | 2 | 325 |
| •0000F+00 | .49005E+00 | •80000E+00 | •48833E+00 | •10000E+01 | .48688E+00114 | 8 4 | 2 | 326 |
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| 12 | 2 | | | | 114 | 8 4 | 2 | 358 |
| -,10000F+01 | .53433F+00- | 90000E+00 | .52575E+00- | .80000E+00 | .51924E+00114 | 8 4 | 2 | 329 |
| 60000E+00 | 51024F+00 | 40000F+00 | .50404F+00- | .20000F+00 | .49939E+00114 | 8 4 | 2 | 330 |
| | | | | | | | - | |

.49567F+00 .20000E+00 .49288F+00 .40000E+00 .49081E+001148 4 0. .60000E+00 .48936E+00 .80000E+00 .48853E+00 .10000E+01 .48833E+001148 4 0.0 18.0+06 n 121148 4 1148 4 -.10000E+01 .54092E+00-.40000E+00 .52962E+00-.80000E+00 .52134E+001148 4 -.60000F+00 .51038E+00-.40000E+00 .50327E+00-.20000E+00 .49802E+001148 4 0. .49406E+00 .20000E+00 .49126E+00 .40000F+00 .48963E+001148 .60000F+00 .48905E+00 .R0000E+00 .48940E+00 .10000E+01 .49091E+001148 4 0.0 50+0+06 Λ 1148 4 -.10000E+01 .54807E+00-.90000E+00 .53348E+00-.80000E+00 .52332E+001148 4 -.60000E+00 .51029E+00-.40000E+00 .50221F+00-.20000E+00 .49635E+001148 4 0. .49218E+00 .20000E+00 .48958F+00 .40000E+00 .48840E+001148 - 4 •60000E+00 •48866E+00 •80000E+00 •49075E+00 •10000E+01 •49466E+001148 4 1148 4 1.001 E+03 9.9917E-01 01148 7 0.0 0.0 11148 7 E+02 9.9917E-01 5.0 0.0 2.0 0.0 0.0 1148 7 1.0 2.0449E+01 9.9917E-01 0.0 0.0 0.0 1148 7 1148 7 1148 0 1.0010E+03 9.9917E-01 0. 0. 1.0000E-05 1.0000E+00 2.0000E+07 1.0000E+00 1.1725E+07 0. 1.8000E+07 0. 1.H001E+07 1.0000E+00 2.0000E+07 1.0000E+00114812102 1.0725E+07 0. 1.6001E+07 1.0000E+00 1.8000E+07 1.0000E+00114812102 1.6000E+07 0. 1.8001F+07 0. 9.7250F+06 0. a 1.4000E+07 0. 1.4001E+07 1.0000E+00 1.6000E+07 1.0000E+00114812102 1.60015+07 0. 8.7250F+06 0. 1.2000E+07 0. 1.2001E+07 1.0000F+00 1.4000F+07 1.0000E+00114812102 1.4001E+07 0. 7.72505+06 0. 1.0000E+07 0. 1.0001E+07 1.0000E+00 1.2000E+07 1.0000E+00114812102 1.2001E+07 0. 6.9750E+06 0. 9.0001E+06 1.0000E+00 1.0000E+07 1.0000E+00114812102 9.0000E+06 0. 1.00018+07 0. 6.4750E+06 0. 8.0000E+06 0. 8.0001E+06 1.0000E+00 9.0000E+06 1.0000E+00114812102 9.0001E+06 0. 5.9750E+06 0. 7.0000F+06 0. 7.0001E+06 1.0000E+00 8.0000E+06 1.0000E+00114812102 8.0001E+06 0. 5.4750E+06 0. o 6.0001E+06 1.0000E+00 7.0000E+06 1.0000E+00114812102 6.0000F+06 0. 7.0001E+06 0. 4.9750E+06 0. 5.0001E+06 1.0000F+00 6.0000E+06 1.0000E+00114812102 5.0000E+06 0. 6.0001E+06 0. 4.4750E+06 0. 4.0000E+06 0. 4.0001E+06 1.0000E+00 5.0000E+06 1.0000E+00114812102 5.0001E+06 0. 3.9750E+06 0.

| 4 | 2 | | | | 114812102 | 401 |
|------------|------------|------------|------------|------------|---------------------|-----|
| 3.0000E+06 | 0. | 3.0001E+06 | 1.0000E+00 | 4.0000E+06 | 1.0000E+00114812102 | 402 |
| 4.0001E+06 | 0. | | | | 114812102 | 403 |
| 3.4750E+06 | 0. | 0 | 2 | 1 | 4114812102 | 404 |
| 4 | 2 | | | | 114812102 | 405 |
| 2.0000E+06 | 0. | 2.0001E+06 | 1.0000E+00 | 3.0000F+06 | 1.0000E+00114812102 | 406 |
| 3.0001E+06 | 0. | | | | 114812102 | 407 |
| 2.9750E+06 | 0. | 0 | 2 | 1 | 4114812102 | 408 |
| 4 | 2 | | | | 114812102 | 409 |
| 1.0000E+06 | 0. | 1.0001E+06 | 1.0000E+00 | 2.0000F+06 | 1.0000E+00114812102 | 410 |
| 2.0001E+06 | 0. | | | | 114812102 | 411 |
| 2.6250E+06 | 0. | 0 | 2 | 1 | 4114812102 | 412 |
| 4 | 2 | | | | 114812102 | 413 |
| 6.0000E+05 | 0. | 6.0001E+05 | 1.0000E+00 | 1.0000E+06 | 1.0000E+00114812102 | 414 |
| 1.0001E+06 | 0. | | | | 114812102 | 415 |
| 2.4250E+06 | 0. | 0 | 2 | 1 | 4114812102 | 416 |
| 4 | 2 | | | | 114812102 | 417 |
| 2,0000E+05 | 0. | 2.0001E+05 | 1.0000E+00 | 6.0000E+05 | 1.0000E+00114812102 | 418 |
| 6.0001E+05 | 0. | | | | 114812102 | 419 |
| 2.2250E+06 | 0. | 0 | 2 | 1 | 3114812102 | 420 |
| 3 | 2 | | | | 114812102 | 421 |
| 1.0000E-05 | 1.0000E+00 | 2.0000E+05 | 1.0000E+00 | 2.0001E+05 | 0. 114812102 | 422 |
| | | | | | 114812 0 | 423 |
| | | | | | 1148 0 0 | 424 |
| 1.0010F+03 | 9.9917E-01 | 1 | 0 | 0 | 0114814102 | 425 |
| | | | | | 114814 0 | 426 |
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