

ANL/NDM-11
**MEASURED AND EVALUATED FAST NEUTRON CROSS SECTIONS
OF ELEMENTAL NICKEL**

by
P. Guenther, A. Smith, D. Smith and J. Whalen
Argonne National Laboratory
and
R. Howerton
Lawrence Livermore Laboratory
July 1975

In January 1975, the research and development functions of the former U.S. Atomic Energy Commission were incorporated into those of the U.S. Energy Research and Development Administration.

NOTICE
This report was prepared as an account of work sponsored by the United States Government. Neither the United States nor the United States Energy Research and Development Administration nor any of their employees nor any of their contractors, subcontractors or their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness or usefulness of any information, apparatus, product or process disclosed, or represents that its use would not infringe privately owned rights.

**Applied Physics Division
Argonne National Laboratory
9700 South Cass Avenue
Argonne, Illinois 60439
U.S.A.**

NUCLEAR DATA AND MEASUREMENTS SERIES

The Nuclear Data and Measurements series presents results of studies in the field of microscopic nuclear data. The primary objective is the dissemination of information in the comprehensive form required for nuclear technology applications. This Series is devoted to: a) Measured microscopic nuclear parameters, b) Experimental techniques and facilities employed in data measurements, c) The evaluation of nuclear data. Contributions to this Series are reviewed to assure technical competence and, unless otherwise stated, the contents can be formally referenced. This Series does not supplant formal journal publication but it does provide the more extensive information required for technological applications (e.g., tabulated numerical data) in a timely manner.

TABLE OF CONTENTS

| | <u>Page</u> |
|---|-------------|
| ABSTRACT | 3 |
| I. INTRODUCTION | 4 |
| II. EXPERIMENTAL METHODS | 5 |
| III. EXPERIMENTAL RESULTS | 7 |
| 1. Total Neutron Cross Sections | 7 |
| 2. Elastic Neutron Scattering Cross Sections. | 8 |
| 3. Inelastic Neutron Scattering Cross Sections. | 10 |
| IV. INTERPRETATION AND DISCUSSION. | 12 |
| 1. The Optical Model and Elastic Scattering | 12 |
| 2. The Statistical Model and Inelastic Scattering | 15 |
| V. THE EVALUATED FILE | 19 |
| 1. Total Neutron Cross Sections | 19 |
| 2. Elastic Neutron Scattering Cross Sections. | 20 |
| 3. Inelastic Neutron Scattering Cross Sections. | 23 |
| A. Discrete Excitation Cross Sections | 23 |
| B. Continuum Excitation Cross Sections. | 29 |
| 4. Radiative Neutron Capture. | 32 |
| 5. (n;X) Reactions. | 33 |
| A. The (n;2n') Reaction | 34 |
| B. The (n;3n') Reaction | 36 |
| C. The (n;p) Reaction | 36 |
| D. The (n;α) Reaction | 43 |
| E. The (n;α,n') Reaction. | 49 |
| F. The (n;p,n') and (n;d) Reactions | 49 |
| G. (n;t) Reaction | 54 |
| H. (n;2p) and (n; ³ He) Reactions | 54 |
| I. (n;2p,n'), (n;p,2n') and (n;p,α) Reactions | 54 |
| J. Photon Production. | 54 |
| VI. CONCLUDING REMARKS | 56 |
| REFERENCES | 58 |
| TABLES | 54 |
| FIGURE CAPTIONS. | 67 |
| APPENDIX: NUMERICAL EVALUATED DATA FILE IN THE ENDF/E | |
| FORIAT. | A |

MEASURED AND EVALUATED FAST NEUTRON CROSS
SECTIONS OF ELEMENTAL NICKEL*

by

P. Guenther, A. Smith, D. Smith and J. Whalen
Argonne National Laboratory

and

R. Howerton
Lawrence Livermore Laboratory

ABSTRACT

Fast neutron total and scattering cross sections of elemental nickel are measured. Differential elastic scattering cross sections are determined from incident energies of 0.3 to 4.0 MeV. The cross sections for the inelastic neutron excitation of states at: 1.156 ± 0.015 , 1.324 ± 0.015 , 1.443 ± 0.015 , 2.136 ± 0.013 , 2.255 ± 0.030 , 2.449 ± 0.030 , 2.614 ± 0.020 and 2.791 ± 0.025 MeV are measured to incident neutron energies of 4.0 MeV. The total neutron cross sections are determined from 0.25 to 5.0 MeV. The experimental results are discussed in the context of optical and statistical models. It is shown that resonance width-fluctuation and correlation effects are significant. The present experimental and theoretical results, together with previously reported values, are used to construct a comprehensive evaluated elemental data file in the ENDF format. Some comparisons are made with previously reported evaluated files. In addition, some selected reactions which are widely used in dosimetry and other applications are presented as supplemental evaluated isotopic-data files. The numerical quantities are presented in tabular form.

*This work is supported by the U.S. Energy Research and Development Administration.

1. INTRODUCTION

Nickel is widely employed in neutronic applications both in the elemental form and as a ferrous alloy (1). Some of the latter alloys are rich in nickel and particularly resistant to radiation damage. In view of this applied usage, it is curious that the fast neutron cross sections of nickel are not well known. Indeed, only recently has the resonance behavior of the total neutron cross section been reasonably established in the several hundred-keV region (2).

Elemental nickel consists primarily of the two isotopes ^{58}Ni and ^{60}Ni . They are in the region of strong $l=0$ strength functions where resonance width-fluctuation and correlation corrections to the Hauser-Feshbach formula should be pronounced (3,4). These corrections are important at MeV energies where the excitation of a few discrete levels is a dominant feature of the inelastic scattering process. The width-fluctuation correction enhances the average cross section for reactions in which the entrance-and exit-channel fluctuations are correlated with a corresponding reduction in cross sections for reactions without such correlation. The low-energy excited levels of these isotopes exhibit the characteristics of two-phonon vibrational excitation and channel coupling between the ground and low-energy excited states may be appreciable. It is of interest to compare ellipsoidal-(coupled-channel) and spherical-optical model interpretations of the observed cross sections. Furthermore, the energy-averaged models can be related to the statistical properties of the fluctuating cross sections observed in high-resolution measurements with a consequent improved insight into the nature of the energy-averaged models (5).

Thus, from both basic and applied points of view, the interaction of fast neutrons with nickel is of considerable interest. It is the objective of the present work

to examine such processes using experimental and calculational means and to use the results, together with those available from other sources, to construct an evaluated nuclear data file in the ENDF format for applied use (6). The following sections deal with: II) a brief outline of experimental methods, III) a summary of experimental results, IV) an interpretation of the present measured values in the context of optical and coupled-channel models including the statistical nature of the fluctuating structure and the implication of the energy-average models, and V) the formulation of the evaluated data files including a general elemental file and supplemental isotopic files. The complete numerical files are presented in the Appendix.

II. EXPERIMENTAL METHODS

The samples were cylinders of high purity metallic nickel. One set was selected to provide axial neutron transmissions of 50 percent or greater in the total cross section measurements. A second set consisting of 2 cm diameter and 2 cm long right cylinders was used for the scattering measurements with neutrons incident on the lateral surfaces. The samples had negligible chemical impurities.

Throughout the measurements the ${}^7\text{Li}(p;n){}^7\text{Be}$ reaction was employed as a neutron source with the metallic-lithium film selected to provide the desired incident neutron energy resolutions.

The total neutron cross sections were deduced from the observed transmissions of approximately monoenergetic neutrons through the samples (7). The data were obtained from three separate sets of experiments distributed over a decade. The first set spanned the energy range 0.25 to 0.65 MeV. It utilized an automated facility and BF_3

neutron detectors (8). The second set of measurements extended from 0.50 to 1.50 MeV. The method was essentially the same as that of the first set with a proton-recoil scintillator replacing the BF_3 detectors. The recoil scintillator was biased to reject the second (minority) neutron group from the source reaction and gamma-ray sensitivity was suppressed with appropriate circuitry. The third set of measurements extended from 1.5 to 5.0 MeV. The method was essentially the same as employed below 1.5 MeV with the addition of time-of-flight techniques to control the background and reduce other experimental perturbations (9). Absolute energy scales were determined relative to the threshold of the neutron-source reaction with an estimated precision of a few keV. Much of the total cross section data was obtained in an energy-random manner which tended to mitigate systematic uncertainties.

The scattering measurements employed time-of-flight techniques using an 8-10 degree angle detection system (10). The scattered neutron velocity resolutions were in the range 0.4 to 1.0 nsec/m with the better velocity resolution at the higher incident energies. The scattering angles ranged from approximately 20 to 160 degrees. At incident energies of ≤ 1.5 MeV measurements were made at 8 to 10 scattering angles distributed over the angular range. At higher incident neutron energies measurements were made at 16 to 20 scattering angles. The relative energy dependence of the detector efficiencies and the absolute values of the cross sections were measured relative to the $\text{H}(n,n)$ process at energies > 1.5 MeV (11) and relative to the $\text{C}(n,n)$ process at ≤ 1.5 MeV (12). All measured scattering cross sections were corrected for angular resolution, beam attenuation and multiple collision effects using Monte-Carlo procedures (13). All cross section values reported herein are ex-

pressed in units of barns per atom of the element unless otherwise specified. The particular apparatuses and procedures are described in detail elsewhere (8,9,10).

III. EXPERIMENTAL RESULTS^a

1. Total Neutron Cross Sections

The total neutron cross sections were measured from 0.25 to 5.0 MeV. While the resolution of 2.0 to 2.5 keV was good, it was not in itself a goal. More attention was given to the accuracy of the energy-averaged magnitudes to provide a good foundation for the development of energy-averaged models and to assure accurate normalization of evaluated cross section sets. The statistical accuracies of the individual data points were in the range 1-2 percent and considerable attention was given to the minimization of systematic errors. The results are summarized and compared with the angle-integrated elastic scattering values and with the evaluated total cross section in Fig. 1. Below 1.5 MeV the present values are in good agreement with the white-source results of Perey et al. (2), considering that the latter have appreciably better resolution with correspondingly greater maxima. The present values may tend to have slightly lower minima. The energy scales appear consistent. Above 0.5 MeV the present values are in good agreement with the white-source results of Cierjacks et al. (14). The latter provide better resolution to about 2.0 MeV. At higher energies the resolutions of the present measurements are probably superior, and thus the data fluctuations are larger. The present values confirm, with a different technique, the major features and magnitudes of the two comparable sets of higher resolution white-source results. When broad energy-averages are constructed from these measured data

a. All measured data reported herein has been transmitted to the National Neutron Cross Section Center, Brookhaven National Laboratory.

sets the agreement is particularly good. In addition, there is a number of more limited monoenergetic data sets that are consistent with the present experimental values (15).

2. Elastic Neutron Scattering Cross Sections

The differential elastic scattering cross sections were measured from 0.3 to 4.0 MeV. Below ~ 1.5 MeV the incident neutron energy resolution was ~ 20 keV and the measurements were made at intervals of ~ 20 keV. The estimated uncertainties were 10 to 15 percent. Above 1.5 MeV cross sections were determined at 100 to 200 keV incident energy intervals with resolutions of 30 to 50 keV and estimated uncertainties of 5 to 10 percent or 3 mb/sr, whichever was larger. Factors contributing to these uncertainties varied from measurement to measurement but were generally: 1) sample counting statistics, < 1 to 5 percent, 2) detector normalization procedures, < 3 to 8 percent, 3) uncertainties in reference standards of 1 percent for H(n,n) and 6 percent for C(n,n), and 4) systematic uncertainties associated with geometrical factors (e.g., scattering angle determination) and multiple event corrections collectively amounting to 1 to 3 percent.

The measured differential elastic angular distributions were least-square fitted with Legendre polynomial series. The fitting procedures were based upon the measured values with the addition of a few 180 deg. theoretically deduced cross sections at higher incident energies in order to assure a well behaved extrapolation beyond the measured angular range. The results of the fitting were generally consistent with "Wick's Limit" (16). The angle-integrated elastic cross sections, obtained from the fitting procedures were believed known to ~ 10 percent with the better accuracies corresponding to the higher

energies. They were generally consistent with the observed total cross sections, as illustrated in Fig. 1, particularly demonstrating an intermediate fluctuating structure similar to the energy-average behavior of the better-resolution total cross section results.

Energy-dependent structure was very evident in the differential elastic distributions, decreasing in magnitude with increasing energy and approaching a smooth behavior at 4.0 MeV. Below 1.5 MeV, these fluctuations were so pronounced that it was difficult to correlate measurements made with slightly different experimental incident energies and/or resolutions or to compare the present results with those reported elsewhere. Therefore the experimental differential distributions were averaged over incident energy intervals of ~ 50 keV. The results are summarized in Fig. 2. Expressed in this form the distributions reasonably portray intermediate structure effects and are more comparable with previously reported results. Some of the latter comparisons are shown in Fig. 3. Below 1.5 MeV the present work is only qualitatively consistent with that of Korzh et al. (17), Cox (18) and Walt and Barschall (19). The differences were attributed to the residual effects of structure in the context of the experimental resolutions of the various measurements. From 1.5 to 4.0 MeV the present results compare reasonably well with those of Holmqvist and Wiedling (20), Tsukada et al. (21) and Mackwe et al. (22). Where there are differences they are usually within the respective experimental uncertainties, often at lower energies and/or correlated with observed structure in the high resolution total cross section. An example of the latter effect is illustrated by the results near 1.8 MeV where there is a pronounced "bump" in the total cross section (See Fig. 1) which corresponds

to the energy of an angular distribution measured in the present work which differs from results at slightly lower energies reported in Ref. 20.

3. Inelastic Neutron Scattering Cross Sections

The energies of the inelastically scattered neutrons were determined from measured flight times and flight paths and the known incident energy and verified by the observed excitation of well known inelastic neutron scattering processes in other nuclei (e.g., the 846 keV state in ^{56}Fe). The accuracies of the excitation energies determined in this manner were approximately 10 to 30 keV. The present results are compared with previously reported values for ^{58}Ni , ^{60}Ni and ^{62}Ni , as summarized in the Nuclear Data Sheets (23), in Fig.

4. Some of the spectroscopic techniques employed in previous work are capable of determining level energies with greater accuracy than the present measurements and therefore the previously reported excitation values are preferred for the interpretation of Sec. IV and evaluation of Sec. V. Angle-integrated inelastic excitation cross sections were deduced from the measured differential values by least-square fitting a Legendre polynomial series to the observed angular distributions. The estimated accuracies of the resulting cross sections were generally 5 to 15 percent for scattered-neutron energies greater than ~ 0.7 MeV. Lower energy scattered neutrons were routinely observed but the corresponding cross sections were felt to be unreliable due to uncertain detector sensitivities and limited angular information. The cross section results are summarized and compared with previously reported values in Fig. 5.

The observed levels at 1.156 ± 0.015 , 1.324 ± 0.015 and 1.443 ± 0.015 MeV were attributed to the first-excited states in ^{62}Ni (1.17 MeV), ^{60}Ni (1.33 MeV), and ^{58}Ni (1.45 MeV), respectively. The cross section magnitudes were

in general agreement with those obtained in the direct neutron measurements of Tsukada et al. (21) and Boschung et al. (24), Rodgers et al. (25), Perey et al. (26) and Granberg and Levin (27). The agreement with a number of results of $(n;n',\gamma)$ measurements is not as satisfactory; particularly where uncertainties in gamma-ray branching ratios become a contributing factor (28,29,20,31). The fluctuation in the cross section values, particularly in the context of the prominent 1.45 MeV state, was large indicating the presence of an intermediate resonance structure. In such an environment, measurements made with only slightly differing incident energies and/or resolutions can give appreciably different results. Furthermore, the structure evident in the total cross section should be selectively enhanced in the individual inelastic channels and preliminary results of detailed $(n;n',\gamma)$ studies by D. Smith support this premise (32). Similar structure is well known in similar inelastic processes (e.g., the excitation of the 846 keV state in ^{56}Fe).

The excitation of the 2.136 ± 0.13 and 2.255 ± 0.030 MeV states was primarily attributed to reported levels in ^{60}Ni (2.16 and 2.28 MeV). In addition, there was probably some minor contribution from 2.05, 2.29 and 2.33 MeV states in ^{62}Ni that would not have been resolved from the primary ^{60}Ni contribution in the present experiments. The measured cross section values were generally consistent with previously reported results, particularly those of Tsukada et al. (21).

Observed neutrons corresponding to an excitation of 2.449 ± 0.030 MeV were attributed to contributions from the reported 2.46 and 2.51 MeV states in ^{58}Ni and ^{60}Ni , respectively. The resolutions of the present experiments would not resolve the two components. The measured re-

sults are consistent with those reported by Boxchung et al. (24) but possibly somewhat lower than the $(n;n',\gamma)$ values of Ref. 31.

The observed excitations of states at 2.614 ± 0.020 and 2.791 ± 0.030 MeV were well correlated with known levels in ^{60}Ni (2.63 MeV) and ^{58}Ni (2.77 MeV), respectively. The former are in good agreement with the values reported by Perey et al. (26). However, the present cross sections for the excitation of the 2.77 MeV are not consistent with those deduced from the $(n;n',\gamma)$ measurements of Ref. 31 even considering the relatively large uncertainties in the present work.

In addition to the above, neutrons were observed corresponding to the excitation of states above 2.8 MeV. These were not well resolved because of an increasingly complex structure and the cross sections were relatively uncertain. Therefore, these results were not interpreted.

IV. INTERPRETATION AND DISCUSSION

1. The Optical Model and Elastic Scattering

The observed energy-averaged neutron total and elastic scattering cross sections were examined in the context of the optical model (33,34). Parameter selection was based upon comparisons of measured and calculated total and elastic scattering cross sections. The calculated values included compound nucleus contributions determined with the Hauser-Feshbach formula (3) corrected for resonance width fluctuation and correlation effects (4). Over a large portion of the energy range of interest, both total and scattering cross sections fluctuated by large amounts. Therefore, the measured values were averaged over ~ 0.2 MeV energy intervals before making comparisons with calculated results

and more emphasis was given to energies above ~ 2.0 MeV where the fluctuations were less pronounced.

An initial attempt to select optical potential parameters from χ -square fitting to the observed elastic angular distributions proved unrewarding. The description of individual distributions was generally good but the resulting parameters were sharply dependent upon the incident energy due to the persistence of intermediate fluctuations even in the 0.2 MeV energy average of the measured values. Therefore, the potential was subjectively selected from concurrent comparisons of measured and calculated total and elastic scattering cross sections. Two different potential models were used as starting points for the calculations: 1) that of Moldauer (35), primarily applicable in the lower energy region, and 2) that of Holmqvist and Wiedling (20), more suitable at higher energies regardless of reasonable parameter adjustment. The Holmqvist and Wiedling potential was useful for the extrapolation of various experimental results in the high energy region. Therefore, it was accepted for use in the subsequent computations. The parameter values are given in Table 1. The total cross sections calculated with this potential agree within a few percent with the experimental values at energies above ~ 2.0 MeV as illustrated in Fig. 6. The parameters were not energy dependent and the introduction of such a dependence as suggested, for example, by Engelbrecht and Fiedelvey (36) led to some degradation in the description of experiment. This was probably an artifact of the particular potential and energy range since an energy dependence is a characteristic of broader-scope studies. Below about 2.0 MeV the calculated total cross sections were somewhat larger than the energy-averaged experimental results. This behavior is rather characteristic of this

type of potential (relatively large real depth, ≈ 50 MeV, and narrow radius) in this mass-energy region. Improved descriptions of total cross sections in this region are obtained using the potentials more of the Moldauer form (relatively smaller real depth, ≈ 45 MeV, and larger radius). However, it is an area where large fluctuations make quantitative comparison with an energy-averaged model difficult and where data for applications must be primarily based upon experimental values. Both types of potentials resulted in calculated $l=0$ strength functions of $\approx 5 \times 10^{-4}$, consistent with the values reported from resonance measurements and systematics (37).

The calculated elastic-scattering cross sections were sensitive to the compound-nucleus contribution throughout the range of the present measurements. This contribution is enhanced by width-fluctuation effects and reduced by resonance correlations. These opposing corrections to the Hauser-Feshbach formula were estimated using the approximations of Moldauer (4) and the computer code NEARREX (38). The results were sensitive to the overlap parameter, Q , which was adjusted to obtain the overall best agreement between measured and calculated elastic and inelastic scattering cross sections. These comparisons indicated a Q of 0.7 to 0.8 as illustrated by the example of Fig. 7. This range is reasonable in the context of the structure evident in the measured quantities (e.g., total cross section). Using $Q=0.75$ the calculated elastic distributions generally compared well with the measured results of the present work as illustrated in Fig. 3. At the lower energies (≈ 1.5 MeV) the fluctuations are large and some differences are to be expected. At higher energies where the fluctuations are smallest, the agreement with the present measured values is good. The model was not explicitly adjusted to de-

scribe previously updated elastic scattering results at energies above 4.0 MeV. However, the calculated distributions were representative of measurements as illustrated by the results at 6.0 and 8.0 MeV shown in Fig. 3. More exact parameterization can be obtained at a given energy with detailed adjustment of parameters but at the expense of the overall description. Indeed some specifically tailored parameter sets reported in the literature were found deficient in a broader energy context. Calculated 14 MeV distributions were similar to reported measured values (39,40,41) with discrepancies largely in the details of the diffraction patterns where the experimental results themselves are ambiguous. At these high energies collective vibrational direct-reactions probably contribute to the elastic processes. These were estimated, using a coupled-channel calculation based upon the above potential (42). The inelastic scattering contribution was small at the energies of the present measurements and not a significant factor in the context of elastic scattering (less than uncertainties associated with unknown level structures).

2. The Statistical Model and Inelastic Scattering

The inelastic excitation cross sections were calculated using the above optical potential and the Hauser-Feshbach formula with corrections (3,4). The choice of optical parameters was not explicitly influenced by considerations of inelastic scattering but the selection of the overlap parameter, Q , was made in concert with the considerations of elastic scattering as outlined above. It was assumed that the elemental inelastic scattering was entirely due to ^{58}Ni and ^{60}Ni as more than 94 percent of the element consists of these isotopes. The spectroscopic characteristics of these two isotopes are well

known to excitation energies above 3.0 MeV (see Fig. 4) but at higher energies become increasingly uncertain with a corresponding unreliability of the calculated results. The region of uncertainty is generally above the energy range of the present measurements. The calculated results are summarized and compared with the measured values in Fig. 5.

The observed excitation of the 1.17 MeV state was attributed to scattering from ^{62}Ni and not considered in the present calculations. However, the measured values were approximately 15 percent of those calculated for the 1.33 MeV state attributed to ^{60}Ni as expected.

The observed 1.33 and 1.45 MeV states are similar first-excited (2+) levels in ^{60}Ni and ^{58}Ni , respectively. Their calculated excitation functions are similar up to ~ 2.2 MeV then become different as varying channel competition sets in. The results of both calculations are qualitatively similar to the measured values but there are detailed discrepancies (particularly evident in the case of the prominent 1.45 MeV state) which are attributed to the fluctuating structure near thresholds (as noted in Sec. III above). In view of these uncertainties, the calculated results, largely based upon considerations of neutron total and elastic scattering cross sections, were judged acceptable. As expected, the calculated values become increasingly larger than the measured quantities above 4.0 MeV due to omission in the calculations of unknown competing neutron channels.

The observed 2.15 (2+) and 2.28 (0+) MeV states are primarily due to known levels in ^{60}Ni with additional and unresolved small contributions from 2.05, 2.29 and 2.33 MeV levels in ^{62}Ni . The calculated and measured excitation cross sections for the 2.15 MeV state are in good agreement. The calculated results for the excitation of

the 2.28 MeV state are smaller than the measured values by an amount consistent with the contribution from the 2.29 and 2.33 MeV states in ^{62}Ni , not included in the calculations. Indeed, the observed angular distribution of scattered neutrons resulting from the 2.28 MeV excitation was anisotropic in the manner characteristic of a 0^+ excitation but not to the degree indicated by calculation assuming contribution from a single level. This also would be expected from some additional contributions from ^{62}Ni .

The observed neutrons corresponding to the excitation of a 2.48 MeV state were assumed to be the sum of $^{58}\text{Ni}(2.46 \text{ MeV}, 4^+)$ and $^{60}\text{Ni}(2.51 \text{ MeV}, 4^+)$ contributions. Calculations based upon this premise gave results consistent with the experimentally observed cross sections of the present experiment to energies of ~ 4.0 MeV. At higher energies the calculated results became increasingly too large, again probably due to the neglect of unknown competing neutron channels.

The measurements did not well define the cross sections for the excitation of the 2.63 MeV and 2.77 MeV states. However, calculated results based upon the premise of contributions from $^{60}\text{Ni}(2.63 \text{ MeV}, 3^+)$ and $^{58}\text{Ni}(2.77 \text{ MeV}, 2^+)$, respectively, were in reasonable agreement with the experimental values.

The above calculated results were based upon a spherical optical potential and the compound-nucleus model. However, the first excited states of the two prominent even isotopes (^{58}Ni and ^{60}Ni) are attributed to two-phonon vibrational configurations (23,43). Therefore, collective-direct excitations can contribute to the observed scattering processes. This was estimated using coupled-channel calculations assuming a deformation parameter, $\beta_2 = 0.187$ and a vibrational coupling of ground

(0+) and first excited (2+) states (44). At the energies of the present measurements the direct contribution was not large as illustrated by the comparison of dashed and dotted curves for the excitation of the 1.45 MeV state shown in Fig. 5. The anisotropy in the scattered neutron angular distributions predicted by the coupled-channel calculations was not recognizable in any of the present measurements and generally of the order of the experimental uncertainties. Moreover, the possible effect is masked by the apparent fluctuations, noted above, and by uncertainties associated with the physical mechanisms involved in the compound nucleus processes. The direct component is a major contribution and clearly evident at incident energies well above those of the present experiments. Examples are found in the cross section magnitudes and angular distributions associated with the excitation of the first (2+) states by 14 MeV incident neutrons as reported by Stelson et al. (45), Clark et al. (46) and Kammerdiener (39). These experimental data at 14 MeV were consistent with the results of the coupled-channel calculations.

All of the above compound-nucleus calculations, for both elastic and inelastic scattering, employed the Hauser-Feshbach formula with the correction factors suggested by Moldauer (4). The latter are recognized as qualitative approximations. However, it is clear that such correction factors appreciably influence the comparisons of calculated and measured values and thus the basic model selection. More definitive model determination will probably require a better understanding of these correction factors. Such is now being sought, for example, by Moldauer (47), Kawai et al. (48) and Weidenmüller (49). Wide application of these new physical concepts will require the development of practical computational tools for experiment analysis.

V. THE EVALUATED FILE

The above experimental and calculational results, together with previously reported information, were utilized to construct a comprehensive evaluated data file in the ENDF/B format (6). The objective was to make available the most recent information in a form suitable for applied use. This evaluation was confined to energies greater than 100 keV. For completeness, the file was extended to lower energies explicitly using the preliminary version of ENDF/B-IV formulated by M. Bhat (6). In addition to the general elemental file, selected isotopic files were formulated where they referred to specific reactions that are often employed on an isotopic basis (e.g., in dosimetry applications). The elemental file was constructed from these isotopic components where appropriate. The derivation of the present file is outlined in the subsequent text and the numerical values are given in the Appendix. Throughout, attention was given to both physical content and conciseness.

1. Total Neutron Cross Sections

From 0.1 to 0.5 MeV the data base for the present evaluation was obtained from Refs. 2,50,51,52 and the present work. Ref. 2 appeared to be of the best quality and the more comprehensive therefore was given the primary emphasis. A large-scale graphical representation of these data was assembled and points selected from the measured values so as to give a clear representation of the results with a good degree of conciseness. This procedure resulted in a very good description of the measured values. Above 0.5 MeV the present evaluation was based primarily upon data from Ref. 14. The general character of the structure and the energy-averaged magnitudes of that work were verified by the present measurements and those reported in Refs. 15,53 and 54. Data from Ref. 55

tended to have a lower average magnitude and was not used. The resolution of the data of Ref. 14 appeared very good, and the energy scale was consistent with the results of isotopic measurements given in Ref. 56. The evaluated file in this higher energy region was derived by the same point selection method outlined above to 6.0 MeV. Above 6.0 MeV the data becomes smooth and the file was constructed from energy-averages of the measured values over intervals of 25 keV or larger.

The results of the present evaluation are compared with those of ENDF/B-IV in Fig. 8. Below energies of approximately 0.7 MeV ENDF/B employs a resonance-parameter description and the results are not directly comparable with the point values of the present work. Above 0.7 MeV the two evaluations are similar, though a careful inspection indicates that the present file gives a slightly improved description of the fluctuating structure with, particularly, higher resonance maxima.

Due to the sharp resonance structure over much of the energy range of the file, error estimates are difficult. Undoubtedly, at some future date improved measurements will result in larger maxima and lower minima as suggested by theoretical statistical calculations (5). However, it is unlikely that the energy-averaged magnitudes of the evaluated file will change by more than 3 to 5 percent and, but for a few lower energy regions, the extrema may not change by more than 20 percent.

2. Elastic Neutron Scattering Cross Sections

The evaluated elastic scattering cross sections were primarily based on data from experiments to \sim 8 MeV and near 14 MeV. Theory was used to extrapolate and interpolate where necessary, particularly from 8 to 14 MeV and 14 to 20 MeV. Below 0.3 MeV, the recent experimental

results of Zuhr (57) were given primary emphasis. They are consistent with the results of Ref. 12 and the resolution was sufficient to define intermediate fluctuating structure. From 0.3 to 4.0 MeV primary reliance was placed upon the present experimental work supported by the results of Cox (18), Walt and Barschall (19), Tsukada et al. (21) and Holmqvist and Wiedling (20). Some of these experimental results are compared in Fig. 3. Evaluated differential cross sections at 5.0, 6.0, 8.0 and 14.0 MeV were constructed from the measured values of Perey et al. (26), Boschung et al. (24), Holmqvist and Wiedling (20), Clark and Cross (41), Kammerdiener (39) and Bauer et al. (40). The experimental data base above 5.0 MeV was generally available at slightly different incident energies. Measured values were combined in the evaluation when the incident energies were within ± 10 percent of a given median value. Generally the incident energies were much closer and an effort was made to balance high and low energy results about the mean.

The angle-integrated elastic cross sections were obtained by least-square fitting a Legendre polynomial series to the measured values. The 0 deg. cross section value was constrained to exceed the minimum set by "Wick's Limit" (16), and 180 deg. values deduced from the model of Sec. IV, were introduced to assure a well behaved shape. The same model was slightly "tailored" to give good description of 8.0 and 14.0 MeV experimental results and then used to interpolate between 8.0 and 14.0 MeV and to extrapolate to 20 MeV assuming shape scattering only.

The evaluated angle-integrated elastic cross sections were consistent with other known partial cross sections and the total cross sections up to about 4.0 MeV. Above 4.0 MeV the difference between total cross section, and the elastic cross section and observed partial cross

sections defined the continuum inelastic cross section. The final evaluated elastic cross section was determined by subtracting the observed nonelastic cross section from the total cross section. This procedure is necessary to achieve the mandatory internal consistency of the file. Unfortunately, it has the physically consequence of reflecting nearly all the detailed structure of the total cross section to the elastic channel. There is little alternative in the absence of high resolution data in all channels and with the requirement of absolute internal consistency. The final evaluated result is summarized and compared with that of ENDF/B-IV in Fig. 9.

The evaluated angular-distributions of elastically scattered neutrons are expressed as f coefficients where

$$\frac{d\sigma}{d\Omega} = \frac{\sigma}{2\pi} \sum_{\ell=0}^{\infty} \frac{2\ell+1}{2} f_{\ell} P_{\ell} \quad (1)$$

and P_{ℓ} are Legendre polynomials expressed in the center of mass system. The coefficients are based upon experimental values extrapolated by theory as outlined above. They satisfy "Wick's Limit" (16). The energy resolutions associated with the angular distributions are ~ 50 keV, i.e., much coarser than those of the angle-integrated cross sections. However, the angular distributions do show intermediate fluctuations as evident in the energy dependence of the distributions shown in Fig. 10. The absence of detailed resonance behavior of the angular distributions may lead to some problems in special applications.

The estimated uncertainties in the evaluated angle-integrated elastic scattering cross sections are 5 to 10% up to 8.0 MeV and near 14.0 MeV, regions where there is

experimental information available. The uncertainties may be larger in the regions of theoretical interpolation and extrapolation (i.e., 8.0-14.0 MeV and > 14.0 MeV). The uncertainties in the relative angular distributions are qualitatively of the same magnitudes. The file requires internal consistency, thus there is generally a built-in correlation of total and partial cross section uncertainties.

3. Inelastic Neutron Scattering Cross Sections

The evaluated inelastic scattering cross sections are treated as discrete excitation functions from threshold to energies of 3.628 MeV. At higher excitation energies the inelastic neutron process is attributed to a continuum of states with the emission of both precompound- and compound-nucleus inelastic neutron spectra. These two types of inelastic neutron processes are dealt with in the following subtitles, A and B.

A. Discrete Excitation Cross Sections

The energetics of these contributions are based on the spectroscopic values of Ref. 23 as defined in Table 2. The evaluated cross sections are compared with the underlying data base in Fig. 3. The specific components are as follows:

$$E_x = 1.172 \text{ MeV, } {}^{62}\text{Ni}$$

The evaluation is based upon the present experimental results and those of Tsukada et al. (21) and of Rogers et al. (30). This experimental information is for incident energies of ≤ 3.0 MeV. At higher energies the evaluation relies on theoretical extrapolation and analogy with results experimentally determined for the similar first excited (2+) states in ${}^{58}\text{Ni}$ and ${}^{60}\text{Ni}$. The neutron emission is assumed isotropic to 4.0 MeV and then becomes anisotropic as direct reactions become appreciable. The degree

of anisotropy is derived from model calculations as discussed below for the 1.33 and 1.45 MeV states. No attention is given to the probable presence of fluctuating structure. The latter assumption is an over simplification but will probably have little impact on most applications of the file. The cross-section uncertainties for the excitation of this state are relatively large, 30-50%, but the absolute-uncertainty magnitudes are small, $\lesssim 20$ mb.

$$\underline{E_X = 1.333 \text{ MeV, } ^{60}\text{Ni}}$$

The excitation of this state has been observed experimentally to ~ 3.0 MeV and at ~ 14 MeV in both $(n;n')$ and $(n;n',\gamma)$ measurements. The evaluation relies on experimental values interpolated with theory. The approach to threshold from 2.0 MeV is based upon the results of Rogers et al. (30), Sluchaevskaya (31) and D. Smith (32). Primary emphasis is given to the latter. They are relative values, normalized to neutron scattering results at ~ 2.0 MeV, but are in sufficient detail to give an indication of the appreciable fluctuations that must be present. From 2.0 to 8.0 MeV the evaluation is based upon the experimental values of the present work, those of Boschung et al. (24), Tsukada et al. (21), Rogers et al. (30), Day (28), Scherrer et al. (29), Rodgers et al. (25), Sluchaevskaya (31), and Perey et al. (26). The evaluation is extrapolated above 8 MeV using theory adjusted to be consistent with the ~ 14 MeV experimental values of Kammerdiener (39) and of Stelson et al. (45). The latter two sets of measurements represent the composite excitations of 1.333 (^{60}Ni) and 1.452 (^{58}Ni) states. The present experimental studies, supported by other measured values, indicate that the neutron emission is essentially isotropic below ~ 4.0 MeV and this is assumed in the evaluation. Above 4.0 MeV the observed

scattered neutron distributions become increasingly anisotropic (see for example the work of Boschung et al. (24), Perey et al. (26), Stelson et al. (45) and Kammerdiener (39)). These experimental distributions were fitted with Legendre polynomial series. The latter were smoothed and interpolated using coupled-channel calculations and then used to provide the angular distributions for the evaluation. Below \sim 5.0 MeV the energy-averaged of the evaluated cross sections were estimated to have an uncertainty of \sim 15%. Above 5.0 MeV the estimated error becomes larger, perhaps as much as 30% at 20.0 MeV. Near threshold the evaluation is deficient in describing the resonance fluctuations and one may expect future high resolution measurements to show fluctuations about the energy-averaged values of as much as an order of magnitude.

$$E_x = 1.454 \text{ MeV, } ^{58}\text{Ni}$$

This state is the 2^+ , ^{58}Ni , complement of the similar 1.333 MeV state in ^{60}Ni (see above). The data base consists of the present measurements and those of Tsukada et al. (21), Rodgers et al. (30), Day (28), Scherrer et al. (29), Rogers et al. (25), Sluichaevskaya (31), Boschung et al. (24) and Perey et al. (26). In addition, the composite excitations of the 1.333 and 1.454 MeV states at 14 MeV reported by Stelson et al. (45) and Kammerdiener (39) were considered. An indication of the partially resolved structure below 2.0 MeV was obtained from the relative $(n;n',\gamma)$ measurements of D. Smith (32). Even above this energy, there is an indication of the persistence of unresolved resonance fluctuations the definition of which is beyond present experimental information. Therefore, the evaluation follows an energy-averaged above \sim 2.0 MeV. The

extrapolation to 20.0 MeV and the treatment of emitted neutron angular distributions were identical to that described above for the excitation of the 1.333 MeV state. The estimated error in the energy-average of the evaluation is 15% below 5.0 MeV increasing to as much as 20-30% at 20.0 MeV.

$$\underline{E_X = 2.158 \text{ MeV and } E_X = 2.286 \text{ MeV, } ^{60}\text{Ni}}$$

The evaluation is a subjective estimate of the energy-averaged behavior of the cross section deduced from the experimental results of the present work, those of Tsukada et al. (21), Day (28) and Sluchaevskaya et al. (31). These experimental results extend to ~ 4.5 MeV. The extrapolation to higher energies is guided by theory and made consistent with the combined excitations of the 2.158 and 2.284 MeV states reported by Perey et al. (26). The estimated uncertainty over the entire energy range is $\sim \pm 20\%$. The neutron emission was assumed to be isotropic for this and all subsequent excitations.

$$\underline{E_X = 2.459 \text{ MeV, } ^{58}\text{Ni and } E_X = 2.506 \text{ MeV, } ^{60}\text{Ni}}$$

There is little experimentally resolved data on the cross sections for the excitation of these two states. In the present work, that of Sluchaevskaya et al. (31) and of Boschung et al. (24) the cross sections are determined as a composite. Perey et al. (26) observed the excitation of the 2.506 MeV and subsequent 2.625 MeV state in ^{60}Ni as a composite. Tsukada et al. (21) have reported the excitation of the isolated 2.459 MeV and 2.506 MeV states at only a few energies. However, the J^π values of these excited states in both ^{58}Ni and ^{60}Ni are reasonably well known. Therefore, the present evaluation is based upon the measured cross sections for the composite excitation broken into the two respective components by a ratio factor calculated from the above model. The results are

consistent with the available experimental information. The uncertainty in the individual excitation cross sections may be rather large (up to 50%) but the estimated error in the composite is smaller (\approx 20%) and it is the latter uncertainty that will be relevant to most applications.

$$E_X = 2.625 \text{ MeV, } {}^{60}\text{Ni}$$

The available experimental information is from the present work and that of Scherrer (29). Supporting evidence are the results of Boschung et al. (24) and Perey et al. (26) which include contributions from the 2.506 MeV state. This rather meager experimental information was extrapolated using theory to obtain the evaluated excitation cross section. The result may have a large error (30-50%) but this will be of little note in most applications due to the small magnitude of the cross sections.

$$E_X = 2.775 \text{ MeV, } {}^{58}\text{Ni}$$

The evaluation is primarily based upon the present experimental results extrapolated with theoretical estimates. The result is very much larger than indicated by the measurements of Ref. 31. The uncertainties in the evaluation may be large (as much as two).

$$E_X = 2,901, 2,942 \text{ and } 3,038 \text{ MeV, } {}^{58}\text{Ni}$$

There is very little direct experimental evidence dealing with these states. For this evaluation we rely upon model calculations assuming the above potential and the J^π values of Ref. 23. The calculational estimates should be qualitatively valid (\pm 30%). In view of these uncertainties, we treat the three levels as a single composite state in this evaluation with a mean excitation energy of 2.960 MeV.

$$E_x = 3.123, 3.184, 3.195, 3.270, 3.316 \text{ and } 3.392 \text{ MeV, } ^{60}\text{Ni} \text{ and the } 3.264 \text{ and } 3.420 \text{ MeV, } ^{58}\text{Ni}$$

The cross sections for the excitation of the ^{60}Ni components have been reported by Perey et al. (26). Additional measured values are given by Boschung et al. (24). The individual excitation functions have not been resolved. For this evaluation we assume a mean composite excitation energy of 3.270 MeV and use theory for the extrapolation of measured values particularly where associated with the excitation of the 3.264 and 3.420 MeV states in ^{58}Ni . The uncertainties in the resulting evaluated cross sections are estimated to be $\sim 30\%$.

$$E_x = 3.526, 3.531, 3.593 \text{ and } 3.620 \text{ and } 3.775 \text{ MeV, } ^{58}\text{Ni} \text{ and } 3.568, 3.618, 3.670 \text{ and } 3.732 \text{ MeV, } ^{60}\text{Ni}$$

The available experimental information is apparently limited to the measured cross sections for the composite excitation of the ^{60}Ni states reported by Perey et al. (20). The present evaluation uses these measured ^{60}Ni values and the theoretically-calculated excitations of the contributing ^{58}Ni states to obtain the excitation cross section of a "state" at an average energy of 3.628 MeV. The primary uncertainty is in the calculation of the ^{58}Ni contribution. The uncertainty in the evaluation is estimated to be $\sim 30\%$.

The cross sections for the excitation of higher energy states in ^{60}Ni are available from the experimental measurements of Perey et al. (26). However, the larger contributions from ^{58}Ni are unknown and uncertainties in J^π values make calculations unreliable. Therefore, the present evaluation is confined to discrete excitation functions corresponding to states at energies of ~ 3.7 MeV. Higher energy excitations are treated as continuum

distributions as described below.

The above discrete inelastic excitation cross sections are compared with a number of those given in ENDF/B-IV in Fig. 11. The sum of discrete inelastic cross sections of the present evaluation is very similar to that of ENDF/B-IV below 5.0 MeV but there are some appreciable differences between specific excitation functions. Generally, the present evaluation tends toward larger discrete inelastic cross sections at very high energies (e.g., 10-20 MeV). This is a physically acceptable representation of direct excitations which is substantiated by experimental observation and by theoretical estimates. These high-energy cross section components will contribute to a harder emission spectrum at high incident energies than indicated by the simple temperature distribution.

b. Continuum Excitation Cross Sections

The evaluated continuum inelastic cross sections extend from the last discrete inelastic threshold ($E_{\chi} = 3.628$ MeV) to 20.0 MeV. The cross section magnitudes are the differences between the evaluated total cross section and the sum of other identified partial cross sections. Thus the continuum component may also include otherwise unidentified partial cross sections. This is unavoidable when file internal consistency is mandatory and all partial components may not be fully known. The uncertainties in the cross section magnitudes are estimated to be ~ 30 percent and are, of course, correlated with those of other cross sections.

The neutron emission spectrum was assumed to consist of three components: 1) discrete neutron groups, 2) a temperature distribution due to compound-nucleus decay, and 3) a pre-equilibrium continuum distribution. The first of these is defined in Topic A, above. The

second component was described by a Maxwellian temperature distribution (58) defined by

$$N(E) \sim E \exp (-E/T)$$

where

(2)

$$T \propto \sqrt{E}.$$

The third, pre-equilibrium, component has been the subject of recent study by Griffin (59), Cline and Blann (60) and others. The process is usually formulated in the context of few-particle statistical models describing the intermediate configurations between the initial transitory particle excitation and the final long-lived compound nucleus. These pre-equilibrium models successfully describe observed emission spectra. However, a large number of uncertain parameters are involved thus making predictions based largely on the models somewhat uncertain and difficult to apply in pragmatic evaluation. As an alternative the present evaluation represents the pre-equilibrium emission with a "hard" temperature distribution. Thus, the full continuum spectrum is given by

$$N(E) \sim A \cdot E \cdot \exp (-E/T_A) + B \cdot E \cdot \exp (-E/T_B) \quad (3)$$

where (A) and (B) refers to compound nucleus and pre-equilibrium contributions, respectively. The choice of parameters is based upon experimental comparisons. The results of Mathur et al. (61), Voiginer et al. (62) and Perey et al. (26) primarily influenced the selection of compound-nucleus (A) parameters. The selection of pre-equilibrium (B) parameters were largely based on comparisons with the experimental results of Seeliger et al. (63) and Kammerdiener (39) and considerations of spectra obtained in sphere transmission "bench mark" experiments at 14 MeV (64). The compound-nucleus temperature (T_A) was assumed to have a \sqrt{E} dependence with the proportionality constant determined from experimental compari-

sons. The pre-equilibrium temperature (T_B) was assumed constant, a reasonable approximation in view of other uncertainties. The finally selected parameter values were:

| | <u>Rel. Magnitude</u> | <u>Temp. (MeV)</u> |
|------------------|-----------------------|-------------------------|
| Compound-Nucleus | $A = 5.0$ | $T_A = 0.334 \sqrt{E}$ |
| Pre-equilibrium | $B = 0.075$ | $T_B = 7.0 \text{ MeV}$ |

(4)

These values are consistent with the available experimental information and with compound-nucleus parameters reported elsewhere (see, for example, Ref. 26).

All of the continuum distributions were step-wise terminated at the onset of the discrete excitation contributions. This physically anomalous behavior is an artifact of the transition between the two types of representation and should not effect most applications.

The evaluation assumes the continuum neutron emission to be isotropic in the laboratory system. This is reasonable in the context of compound-nucleus contributions but a gross approximation of the pre-equilibrium processes. The latter are characteristically peaked forward (e.g., see Kammerdiener, Ref. 39). However, quantitative definition of anisotropy from the presently available experimental and theoretical knowledge of scattering from nickel would be highly speculative and not of appreciable value for many applications.

The present evaluated inelastic cross sections are very different from those of ENDF/B-IV in the higher energy region as illustrated in Fig. 12. The discrepancy is nearly a factor of two at 14 MeV and above. This is primarily due to larger contributions from several partial emission reaction channels in the present estimates. Prominent among these is the $(n;n',p+p,n')$ reaction where the present evaluation is much larger than that of ENDF/B-IV

as discussed below. In addition, there are several reaction channels in the present work that were not included in ENDF/B-IV. With a well known total cross section and a reasonably known elastic scattering cross section these various other partial cross sections primarily interact with and reduce the inelastic scattering cross section. As noted below, some of these components are uncertain and may be overestimated in the present evaluation. Consequently, the present evaluated inelastic cross section at energies of ~ 14 MeV may be uncertain by as much as 25-50%. However, this large uncertainty remains much smaller than the discrepancy with the high energy inelastic cross sections of ENDF/B-IV. This difference may have an important effect on high energy applications such as CTR blanket studies.

4. Radiative Neutron Capture

The evaluation is generally based upon the data of Ref. 65 to 72. Below ~ 0.5 MeV the evaluation follows the recent high-resolution results of Le Rigoleur et al. (65). There is a small (~ 20 keV) energy gap in the Le Rigoleur et al. results near 200 keV which was bridged with a speculative structure following the general data trend. From 0.5 to 1.0 MeV the evaluation follows the energy-average results of Diven et al. (67) and it is extrapolated to higher energies following the measured values of Poenitz (72).

The energy average of the present evaluation is consistent with that of Moxon (66) to 1.0 MeV and reasonably similar to the ENDF/B-IV values from 0.7 to 1.0 MeV. Above 1.0 MeV, the present results tend to be somewhat larger than those of ENDF/B-IV. The structure in the present evaluation at energies below 0.7 MeV is not directly comparable with that of ENDF/B-IV as the present work is

based on direct experimental observation and that of ENDF/B apparently on a resonance extrapolation using systematics.

It is remarkable that present experimental knowledge of nickel fast neutron radiative capture is so sparse. This has been recognized and work now in progress at ANL by Poenitz (72) is improving the situation in the particularly uncertain region above several hundred keV. Until these, and similar, new experimental results become available in final form, the present evaluation must be considered tentative with uncertainties of 20 percent or more over much of the energy range. In addition, it is expected that some future high-resolution measurements will show pronouncedly larger fluctuations in the lower energy region (\lesssim 1.0 MeV). This is particularly so as the available experimental information in the structured region may be influenced by scattered-neutron perturbations.

5. (n;X) Reactions

Energetically possible (n;X) reactions in ^{58}Ni , ^{60}Ni and ^{62}Ni are summarized in Table 3. These processes were addressed in the present evaluation. In addition, there are possible contributions from the minority (\approx 1% abundant) ^{61}Ni and ^{64}Ni isotopes. Generally, the latter two isotopes were not given consideration. The primary intent was an elemental evaluated file. However, certain of the above processes are commonly employed on an isotopic basis particularly in dosimetry applications. In these instances the present evaluation includes a secondary isotopic evaluated file in addition to the primary elemental file. Both files are given in the ENDF/B format.

Subsequent sections deal with the specific (n;X) reactions in Table 3.

A. The (n;2n') Reaction

The present evaluation considered contributions from the $^{58}\text{Ni}(n;2n)$ and $^{60}\text{Ni}(n;2n)$ reactions as defined in the subsequent paragraphs. Both of these reactions have relatively higher thresholds than those associated with the few-percent-abundant ^{61}Ni , ^{62}Ni and ^{64}Ni . Therefore, in addition to the major contributions, the evaluation introduces a very small "tail" extending to the lowest threshold; 7.954 MeV (^{61}Ni). The neutron emission spectrum is approximated by a temperature distribution of the form $N(E) \sim E \cdot \exp(-E/T)$ where the energy dependence of the temperature is given by $T = 0.25 \sqrt{E+Q}$. This is a qualitative estimate based upon systematics and represents a somewhat different spectrum than given in ENDF/B-IV.

The isotopic and elemental evaluations are compared with those of ENDF/B-IV in Fig. 14. Over much of the energy range the present evaluation is $\sim 15\%$ lower than that of ENDF/B-IV. This is probably not a significant difference. The uncertainties in both evaluations are at least as large as this difference due to the very uncertain knowledge of the $^{60}\text{Ni}(n;2n)$ process (see below).

The $^{58}\text{Ni}(n;2n')$ ^{57}Ni Reaction

This reaction has a $Q = -12.203$ MeV. ^{57}Ni has a half life of 36 hours and decays via electron capture and β^+ emission (73). Most reported measurements have involved counting annihilation gammas and there are no particular problems associated with measurement of the reaction cross section via this technique.

Measurements have been made over the entire range from threshold to 20 MeV with a concentration of values in the range 14-15 MeV. There are obvious discrepancies in several of the data sets. The available data were divided into two categories. One included those sets which appeared reasonably consistent in magnitude and in the

energy dependence of the excitation function. In this category are included the data of Prestwood and Bayhurst (74), Paulsen and Liskien (75), Borman et al. (76), Glover and Weigold (77), Rayburn (78), Cross et al. (79), Brawlitt and Fink (80), Barrall et al. (81), Fink and Wen-deh-lu (82), Paul and Clarke (83), Strain and Ross (84) and Temperly (85). The second category consisted of data sets which were examined but rejected because of apparent inconsistencies with data in the first category. Selection and rejection of data sets were subjective and based on consideration of normalization, energy dependence and experimental factors which govern credibility. Included in the second category were the data of Rayburn (86), Jeronimo et al. (87), Preiss and Fink (88), Purser and Titterton (89), Csikai (90) and Csikai and Peto (91). Three data sets (Refs. 74-76) cover essentially the entire range from threshold to 20 MeV. The data of Prestwood and Bayhurst (74) appear consistently high while that of Borman et al. (76) are consistently low when compared with the data of Paulsen and Liskien (75). The data of Paulsen and Liskien was the most influential in this evaluation. The present evaluation is compared with the category one data base in Fig. 15.

The $^{60}\text{Ni}(n,2n')$ Reaction

There is apparently no experimental data available on this reaction. Estimates at 14 MeV based on statistical theory, N-Z systematics, empirical formulae and data from neighboring nuclei are often used and three evaluations of this sort have been reported. L. Jeki (92) gives a value of 359 mb. and Body and Csikai (93) reported a value of 408 mb. at 14 MeV. Pearlstein (94) computed $\sigma_{n,2n'}$ at three energies and for a fission neutron spectrum with the following results:

| E_n (eV) | $\sigma_{n,2n}$ (mb) |
|----------------|----------------------|
| 13.1 | 156 |
| 14.1 | 295 |
| 15.1 | 409 |
| fission spect. | 0.034 |

We use the values of Pearlstein for 13.1, 14.1 and 15.1 MeV, then assume that $\sigma_{n,2n} = 600$ mb at 20 MeV. The qualitative rationale for this choice is that the $(n;2n')$ cross section for ^{58}Ni is $\sim 50\%$ larger at 20 MeV than at 15 MeV and the Q-values differ by only ~ 0.8 MeV.

B. The $(n;3n')$ Reaction

All of the contributing reaction Q-values are negative and of large magnitude (the smallest is $^{64}\text{Ni} = -16.501$ MeV). Moreover, the reaction thresholds for the prominent isotopes ^{58}Ni and ^{60}Ni are above 20.0 MeV. Therefore this process was not incorporated in the present evaluation.

C. The $(n;p)$ Reaction

The present evaluation constructs the elemental $(n;p)$ cross section from the $^{56}\text{Ni}(n;p)$, $^{60}\text{Ni}(n;p)$ and $^{61}\text{Ni}(n;p)$ components. Two possible additional contributions are the $^{62}\text{Ni}(n;p)$ and $^{64}\text{Ni}(n;p)$ components. Both of the latter were ignored due to small isotopic abundance and lack of experimental data. These omissions should have only a small effect upon the elemental cross sections. The derivation of the isotopic components is discussed in detail in the subsequent paragraphs. The results are graphically summarized and compared with ENDF/B-IV in Fig. 16. The present elemental evaluation is slightly larger than that of ENDF/B-IV ($\sim 5\%$) and does not show as much structure. The uncertainty associated with the evaluation is estimated to be $\leq 10\%$ or 20 mb, whichever is larger, to energies of 14 MeV. The

The agreement with the prior ENDF/b-IV values is generally consistent with this accuracy estimate excepting those regions where ENDF/b-IV shows considerable structure (see discussion below).

The $^{58}\text{Ni}(n,p)^{58}\text{Co}$ Reaction

The Q-value of this reaction is +0.395 MeV.

Various levels in ^{58}Co are populated. The most commonly discussed of these is the 9.15 hour isomeric state at 0.0249 keV and the ground state which decays via β^+ emission and electron capture to levels in ^{58}Fe up to an excitation of 1.67 MeV (95). The reaction is well suited to study via activation techniques. The evaluation is inclusive of contributions from isomeric and ground states.

This reaction is widely employed in reactor dosimetry (96,97) because of the low "effective" threshold and because of the convenience of gamma counting. Consequently, there is not only a wealth of experimental data available, but also a number of evaluations (e.g., Refs. 96-99). The present evaluation gave primary attention to the experimental values. Because of the volume of data available, it was decided to be more selective than might otherwise be the case. The data selected met the criteria of being reasonably consistent with the average of all data sets. Greater weight was given to data sets which covered a wide energy range and exhibited reasonable energy dependence. The compilation of Liskien and Paulsen was utilized to deduce the general shape of the cross section between 1 and 20 MeV (100). This compilation includes most work through 1967. Between 1967 and the present, there have been several measurements as reported in CINDA (101). The two most significant new data sets are from the work of Paulsen and Widera (99) and from Smith and Meadows (102).

The data sets which most strongly influenced the present evaluation are plotted in Figs. 17 and 18. They are those of Smith and Meadows (102), Paulsen and Widera (99), Meadows and Whalen (103), Debertain and Roesle(104) and Barry (105). Other data sets were either rejected because they deviated too far from the average or were given less weight because they provided no new information or were in marginal agreement with the majority of previous values. This was particularly true for data in the 14-15 MeV region where an inclusion of all available data would not substantially contribute to the evaluation. These omissions were judged to have little effect on the evaluation. A curve was constructed through the selected data sets and the evaluated cross sections were derived from the curve.

For $E_n < 1$ MeV, only the data from Smith and Meadows (102) and from integral reactor measurements shed light on the cross section. The integral data has been distilled and evaluated by McElroy and co-workers (96,97) and leads to $\sim 3 \times 10^{-6}$ barn for $E_n \sim 0.5$ MeV. The integral measurements give no details of the excitation function. McElroy and co-workers have assumed that the $^{58}\text{Ni}(n;p)^{58}\text{Co}$ cross section is a constant fraction of the total cross section in this region. The data of Smith and Meadows extends down to 0.44 MeV. The two lowest energy points at 0.44 and 0.63 MeV have broad resolution and large errors. However, these data are consistent with an average cross section of $\sim 2.8 \times 10^{-6}$ barn. This is in good agreement with the general trend of the McElroy et al. results in this region so we assume that the cross section is approximately a constant of 2.8×10^{-6} barn for $E_n = 0.1-.65$ MeV. There may be structure in this region but there is not enough informa-

tion available to determine its nature. From 0.65 MeV to 1 MeV, a smooth curve was drawn through the data of Smith and Meadows. This data indicates a lower "effective" threshold than previously assumed (e.g., see Refs. 96,97).

In the region $E_n = 1.0-6.0$ MeV, the evaluation was primarily influenced by the data of Paulsen and Widera (99), Smith and Meadows (102), Meadows and Whalen (103) and Barry (105). The data of Temperly in the region 3-3.5 MeV is in reasonable agreement with the primary set in overall magnitude, but does not exhibit a similar energy dependence (85). The same can be said for the data of Gonzalez et al. (106) and Van Loef (107). The data of Nakai et al. is consistent with the primary set, but is of poor resolution and has large errors (108). The data of Konijn and Lauber (109) deserves particular attention because of the influence it apparently had on the evaluation by Bresesti et al. (98) and the ENDF/B-IV evaluation. These data exhibit large fluctuations in the region 2.8-3.8 MeV while the average energy dependence is in reasonable agreement with the present evaluation. Smith and Meadows (102) measured the cross section with better resolution and observed some structure but the fluctuations were not nearly as large as observed by Konijn and Lauber. This discrepancy remains unresolved. We have accepted the data of Smith and Meadows in preference to that of Konijn and Lauber in this evaluation.

From 6-8 MeV, the data of Paulsen and Widera (99), Barry (105), Debertain and Roesle (104) are in reasonable agreement and adequately define the cross section. The data of Barry seems consistently higher than that of Paulsen and Widera, but the results agree within the stated error limits. The region from 8-13 MeV is devoid of data, so we have estimated the shape of the cross

section with a curve which interpolates in a smooth manner.

The magnitude of the cross section and its energy dependence in the region 13-16 MeV is based on the work of Paulsen and Widera (99) and Barry (105). We have taken cognizance of the multitude of data points in the vicinity of 14 MeV. Much of these data consists of single-energy measurements with large error bars. Unfortunately, there are discrepancies of as much as a factor of 10 between several of these data sets. The data of Temperly (85) provide six data points in this region which exhibit a reasonable energy dependence, but otherwise are systematically higher than the data of Paulsen and Widera and of Barry.

For the region 16-20 MeV, only the data of Borman et al. (110,111) and of Jeronymo et al. (87) are available. The data of Jeronymo et al. gives cross sections which appear far too small and were not considered in the evaluation. The data of Borman et al. are considerably higher than that of Paulsen and Widera (99) and Barry (105). We have employed the general energy dependence of the data of Borman et al. in this evaluation, but normalized to the results of Paulsen and Widera and of Barry.

The resultant evaluated curve and the data which most strongly influenced the present evaluation are shown in Figs. 17 and 18.

The $^{60}\text{Ni}(n,p)^{60}\text{Co}$ Reaction

The $^{60}\text{Ni}(n,p)$ reaction produces the active daughter ^{60}Co . The Q-value for this reaction is -2.040 MeV. There are two prominent activities in ^{60}Co . The ground state has a half life of 5.24 years and generates the 1.17 and 1.33 MeV gamma rays familiar to users of

gamma-ray detectors. The 58.6 keV excited state of ^{60}Co is an isomer with $T_{1/2} = 10.35$ min. The isomer cross section ratio σ_m/σ_g is of interest in nuclear structure studies. For most applications (dosimetry, heating and damage) the total cross section is important. This can be measured by waiting for all isomeric activity to die and then measuring the 5.24 year ground state activity.

Measurements have been made of the isomer cross section ratio. Paulsen and Widera (99) obtained a value of 0.53 ± 0.07 barns at $E_n = 8.19$ MeV and 0.52 ± 0.06 barns at 14.0 MeV. A measurement by Prasad and Sarkar (121) yields a value of 0.025 ± 0.006 barns for the 10.35 min isomer excitation cross section at $E_n = 14.8$ MeV. Assuming an isomer ratio of ~ 0.5 it would seem that this value is too small by more than a factor of two.

Measurements by Allan (116,120) and March and Morton (118) were made using photographic emulsions. The emulsion measurements for $E_n \sim 14$ MeV indicate that protons from the (n;p) reaction correspond to a nuclear temperature of ~ 1 MeV.

Experimental measurements define the cross section reasonably well in the energy region $E_n = 5.6-19$ MeV. At lower energies ($E_n = 2-5.6$ MeV), there is a conspicuous absence of microscopic data.

We have relied on the evaluation of Simon and McElroy for $E_n = 2-7$ MeV (97). The lower-energy cross sections were deduced by unfolding activation data from various reactor spectra. Their evaluation agrees well with some of the microscopic data available at $E_n = 5.67$ MeV. Data from Liskien and Paulsen (112,113,114,115) cover the energy range $E_n = 5.6-19$ MeV quite thoroughly. We have relied heavily on these data since no other measurements cover as wide an energy range. The available data base indicated an "S-shape" structure in the

region 10-12 MeV. No physical justification for such a "bump-dip" could be identified, therefore, the present evaluation assumes a smooth energy dependence rather similar to the maximum in the $^{58}\text{Ni}(n,p)^{58}\text{Co}$ reaction. The maximum spread of the measured values from the evaluation in this region is ≈ 2 standard deviations. The usual array of ~ 14 MeV single data points is available. The data from Allan (116), Levkovskij et al. (117), March and Norton (118) and Storey et al. (119) are in reasonable agreement with the work of Liskien and Paulsen. Measurements at ~ 14 MeV by Allan (120) and Cross et al. (79) yielded values which appear too large.

The present evaluation is compared with prominent data sets in Fig. 19.

The $^{61}\text{Ni}(n,p)^{61}\text{Co}$ Reaction

This reaction produces ^{61}Co which has a 1.65-hour half life and emits β^- and γ -rays. Measurements of this cross section should not be particularly forbidding except for the low abundance of ^{61}Ni in natural nickel. In any event, the experimental data are limited.

Van Loef (107) has measured the (n,p) cross section at 3.3 ± 0.2 MeV and obtained the value 3 ± 1.5 mb. There are various fission spectrum and pile measurements which were not used in this evaluation. The only remaining data are at $E_n \sim 14$ MeV. All of these measurements are via activation. Blosser and Handley (122) report $\sigma_{np} = 91$ mb at 14 MeV. Cross et al. reported a value of 103 ± 10 mb at 14.5 MeV (79) and later at 14 MeV measured a value of 83 mb (123). Levkovskij et al. report a value of 98 ± 10 mb for $E_n = 15$ MeV (117). Valter et al. (124) report a value of 86 mb at 14 MeV. These data are insufficient to define the shape of the (n;p) excitation function. However, we note that the Q value of this reaction is -0.5 MeV and differs by only ~ 0.9 MeV from the

σ -value for $^{58}\text{Ni}(n;p)^{58}\text{Co}$. Neglecting matters such as competition from other decay channels, we constructed and "evaluated" cross section curve which is qualitatively like the $^{58}\text{Ni}(n;p)$ curve but normalized to pass through the Van Loef point at 3.3 MeV and the available 14 MeV data. We accepted the suggested value of 88 mb for 14 MeV given by Pai et al. (125) in generating this curve. The evaluated cross section is shown the curve in Fig. 20.

The $^{62}\text{Ni}(n;p)^{62}\text{Co}$ Reaction

The $^{62}\text{Ni}(n;p)$ reaction leads to ^{62}Co which has a 13.9 min. ground state half life. There is also a 1.51 min. isomer. The only available information on the (n;p) cross section is at $E_n \sim 14$ MeV where there are several measured values. The activation measurements are by Levkovskij et al. (117) (21 ± 3 mb at 14 MeV), Cross et al. (123,125) (24 ± 6 mb at 15 MeV and 39 mb at 14 MeV) and Valter et al. (124) (22 mb at 14 MeV). The measurements by J. E. Strain (84) (106 mb at 14 MeV) and Preiss and Fink (88) (2.0 ± 0.5 mb) for the 1.51 min. isomer and 3.3 ± 0.02 mb for the 13.9 min. ground state at 14.8 MeV seem discrepant. We assume a total (n,p) cross section at 14 MeV which is an average of values from Refs. 117, 123,125, namely 26 mb, and reject the values from Refs. 84 and 88. For comparison, we have the theoretical value from Gardner and Rosenblum (126) of 39 mb at 14 MeV which is in reasonable agreement with our choice. Since the fragmentary evidence indicates this reaction is similar to that in other nickel isotopes and the natural abundance is small, the process was not considered in the evaluation.

D. The (n;α) Reaction

All isotopes of nickel can contribute to this process at energies of a few MeV. However, the experimental informa-

tion is very fragmentary and apparently limited to ^{58}Ni , ^{60}Ni and ^{62}Ni . ^{62}Ni has a low elemental abundance and was ignored in the present evaluation shown in Fig. 21. The cross sections of the present evaluation are 25-50% smaller than those of ENDF-IV and approach threshold in a different manner. Moreover, the present evaluation may be too large if some of the theoretical-systematic estimates given below are correct. These are large discrepancies but can be expected in view of the marginal data base available to both evaluations. The uncertainties are disturbing in view of the wide use of high-nickel alloys in radiation environments giving rise to materials-damage problems.

The $^{58}\text{Ni}(n,\alpha)^{55}\text{Fe}$ Reaction

This reaction has a Q -value of +2.89 MeV. The product nucleus, ^{55}Fe decays 100% by electron capture to the ground state of ^{55}Mn . There is insufficient energy available to reach any excited states of ^{55}Mn , consequently the 2.4 year half-life decay (73) produces only X-rays. The large positive Q -value and the relatively large number of accessible states in ^{55}Fe virtually insure that the reaction cross section will be significant and the resultant α -particle spectra complex. Therefore, accurate measurements of the reaction cross section, inclusive of all final states in ^{55}Fe are very difficult to make.

In principle, it should be possible to utilize activation and low-energy photon ($E_\gamma \sim 6.5$ keV) detection techniques to measure the electron capture X-rays. Apparently this has not been done. The limited available data for this reaction deal with direct detection of the alpha particles.

Weitman et al. have measured the yield of helium produced by irradiation of natural nickel samples (127). For a fission spectrum most of the helium production is

due to the $^{58}\text{Ni}(n;\alpha)^{55}\text{Fe}$ reaction. Mass spectrographic techniques were used to detect the helium. The objective of the measurement was to study swelling effects. The authors calculated on "effective" microscopic cross section for $E_n = 1$ MeV of 4.8×10^{-3} barn. No errors are quoted for this result, but it must be kept in mind that this derived value is dependent upon the shape of the cross section excitation function in the region of the fission neutrons and this function is essentially unknown.

Several measurements have been made of the α spectra for 14-15 MeV neutron bombardment of ^{58}Ni . These measurements were not able to distinguish alpha particles from $(n;n',\alpha)$ and $(n;p',\alpha)$ reactions. Slinn and Robson measured the cross section for excitation of the ground state of ^{55}Fe and deduced the value 1.0 ± 0.3 mb at $E_n = 15.7$ MeV (128). Spira and Robson made similar but more detailed measurements at $E_n = 14.6$ MeV (129). They deduced a cross section of 1.4 ± 0.4 mb for excitation of the ground state of ^{55}Fe and 4.4 ± 1.0 mb for excitation of the 1.332 + 1.412 MeV excited states of ^{55}Fe . In addition, they estimate a cross section of 7.6 ± 2.0 mb for production of α particles with $E_\alpha > 14.5$ MeV (corresponding roughly to the excitation of levels in ^{55}Fe up to 3 MeV). In this work, the contributions from higher-energy states were neglected as the authors were explicitly interested in the excitation of discrete low-lying levels in order to study certain aspects of nuclear structure theory. This limitation makes the data of little value for applications.

Seebeck and Borman have made direct-particle detection measurements on the $^{58}\text{Ni}(n;\alpha)^{55}\text{Fe}$ reaction at 14.0 MeV (130). Their apparatus was designed to have a greater sensitivity to low-energy alpha particles than

the measurements described above. Various techniques were employed to discriminate against noise and to reject background. In addition, they measured the cross section for the $^{27}\text{Al}(n;\alpha)^{24}\text{Na}$ reaction and obtained a value of 0.119 ± 0.010 barn which agrees well with results from activation experiments. For the $^{58}\text{Ni}(n;\alpha)^{55}\text{Fe}$ reaction, they deduce a cross section of 0.113 ± 0.016 barn after correcting the data for the $^{58}\text{Ni}(n;n',\alpha)$ reaction.

The results described above more or less exhaust the available data on the reaction, so we turned to theory for guidance in generating an evaluated curve. Gardner and Yu-Wen Yu conducted a study on the basic trends in $(n;\alpha)$ reaction cross sections for $Z = 6 - 30$ nuclei (131). Statistical calculations were used to predict the relative $(n;\alpha)$ reaction cross sections for 14.5 MeV neutrons and an empirical equation was developed to predict the absolute cross sections. Comparison was made with measured values wherever possible. No data were available for the $^{58}\text{Ni}(n;\alpha)^{55}\text{Fe}$ reactions, but the value calculated by these authors is 0.256 barns at 14.5 MeV. Buetner et al. carried out statistical calculations for various threshold-reaction cross sections including the $^{58}\text{Ni}(n;\alpha)^{55}\text{Fe}$ reaction (132). The excitation function which they generated increases nearly linearly from approximately zero at ~ 5.0 MeV to ~ 0.37 barn at ~ 14 MeV. Between 14-16 MeV the cross section levels off and begins to decrease. The shape of the excitation is similar to that of the $^{59}\text{Co}(n;\alpha)^{56}\text{Mn}$ reaction for which considerable data are available (100). Such qualitative comparisons are a last resort since they can be so readily influenced by other factors such as Q -value and behavior of other decay-channels from the compound nucleus. The available theoretical information may not be very convincing. However, one fact in common is that these

calculations indicate a larger cross section than one deduces from the data of Seebeck and Borman (130).

In making the present evaluation, it was decided to rely on the available data, sparse as they are, in order to deduce the magnitude of the cross section. The data of Weitman et al. provide a point at ~ 1 MeV (127). The cross section may be non-zero at lower energies and possibly even significant for thermal neutrons, but lacking data, we assumed that it decreases linearly to approximately zero below 1 MeV. At 14.0 MeV, we chose the value of 0.113 barn reported by Seebeck and Borman because the agreement of their results for $^{27}\text{Al}(n;\alpha)^{24}\text{Na}$ with activation values is convincing (130). The shape of the cross section at other energies was estimated by comparison with the results for the $^{59}\text{Co}(n;\alpha)^{56}\text{Mn}$ reaction, taking qualitatively into account the differences in Q-values (Q = +0.3 MeV for the latter reaction). The $^{58}\text{Ni}(n;\alpha)^{55}\text{Fe}$ cross section is assumed to reach a maximum in the vicinity of 12 MeV and to decrease at higher energies where the $^{58}\text{Ni}(n;2n)$ reaction competes strongly.

Our evaluation is in good agreement with a similar curve generated by Meyer (133) except below 2.0 where our results are biased toward larger values by the data of Weitman et al. (127). Meyer was guided by the statistical calculations of Eriksson (134) at $E_n = 5$ and 10 MeV in the generation of his evaluated curve. The results are compared with the meager experimental data in Fig. 22.

The $^{60}\text{Ni}(n;\alpha)^{57}\text{Fe}$ and $(^{60}\text{Ni}(n;\alpha,n'+n',\alpha)^{56}\text{Fe})$ Reactions

There is only one experimental measurement available, that of Spira and Robson (129). They measured the 14 MeV cross section for the (n; α) reaction to the ground state of ^{57}Fe and obtained 4.3 ± 2 mb. Including α 's

with energy $E_n > 14.5$ MeV the cross section was raised to 5.6 ± 2 mb.

Lacking data, we resort to theory and are again faced with a confusing picture. Gardner and Yu (131) have used the statistical model to calculate the $(n;\alpha)$ cross section at 14.5 MeV. They obtain $\sigma_{na} = 90.8$ mb. Buetner et al. (132) have performed similar calculations for the $(n;\alpha)$ and $(n;n;\alpha)$ reactions and obtained results rising from threshold to ~ 80 mb at 14-16 MeV. This is reasonably consistent with the Gardner and Yu estimate. However, Schmit (135) questions the normalization used in the calculations by Buetner et al. and suggests that the calculations may overestimate the cross sections by a factor of ~ 7 . If so, the estimates of Buetner et al. are similar to the single measured value of Spira and Robson (129). There obviously is a large uncertainty in these cross sections. This evaluation accepts the theoretical estimates of Refs. (131) and (132) as they appear to be more consistent with the magnitudes encountered in the $^{58}\text{Ni}(n;\alpha)$ processes. The possible error of nearly an order of magnitude is emphasized. It may amount to as much as ~ 20 mb at 14 MeV in the elemental cross section.

The $^{62}\text{Ni}(n;\alpha)^{59}\text{Fe}$ Reaction

The daughter ^{59}Fe has a 44.6 day half life and two microscopic measurements have been reported. Levkovskij et al. (117) report a value of 17 ± 4 mb at 14.8 MeV while Yu and Gardner (136) report a value of 22 ± 3 mb at 14.1 MeV. Gardner and Yu (131) have also computed the $(n;\alpha)$ cross section at 14 MeV using a semi-empirical formula (prior to measurement) and obtain 20.6 mb in good agreement with experiment. The above indicates that, in view of the isotopic abundance, this cross section will make a negligible contribution to the evaluation and thus it was omitted.

E. The (n;α,n') Reaction

The lowest threshold for this reaction is 0.401 MeV (^{60}Ni). There is some very fragmentary information available as outlined in the discussion of (n;α) processes. The present evaluation includes a (n;α,n') component estimated from the ^{56}Ni component alone as illustrated in Fig. 23. The uncertainties in this estimate may be very large (50 to 100%). The neutron emission spectrum is assumed to be a soft "temperature" distribution of the form used for the (n;2n) process. There is no comparable ENDF/B-IV component.

F. The (n;p,n') and (n;d) Reactions

Thresholds for (n;n,p'+p,n') reactions are all high, above ~ 8.0 MeV. The present evaluation is based entirely upon contributions from ^{58}Ni and ^{60}Ni , estimated as outlined in the subsequent sections. Contributions from the remaining isotopes should be small as the abundance is a few percent or less and the thresholds are generally above ~ 10.0 MeV. The resulting isotopic and elemental evaluated cross sections are outlined and compared with that of ENDF/B-IV in Fig. 24. The present evaluation is much larger than that of ENDF/B-IV and it may still be too small as the very fragmentary information about the ^{60}Ni contribution may have resulted in a small estimate. Measurements which led to the present evaluation may have included erroneous (n;d) contributions. However, this would likely be a small perturbation. Both evaluations are uncertain by rather large amounts, but probably much less than the discrepancy between the present work and that of ENDF/B-IV. The neutron emission spectrum was assumed to be a soft "temperature" distribution of the form used for the (n;2n') process. This is only a very qualitative estimate and gives no consideration to the differences between spectra from the (n;n',p) and (n;p,n') processes.

Such distinctions are not warranted in view of the qualitative nature of the estimate.

The (n;d) reaction was estimated following a method analogous to that described above. It consisted of only ^{58}Ni and ^{60}Ni contributions. The available information is very marginal and the present evaluation, shown in Fig. 25, must be considered little more than qualitative. However, the cross sections are small and should have little effect for most applications. There is no comparable ENDF/B-IV (n;d) file.

The $^{58}\text{Ni}(n;n',p+p,n')^{57}\text{Co}$ and $^{58}\text{Ni}(n;d)^{57}\text{Co}$ Reactions

The $^{58}\text{Ni}(n;d)^{57}\text{Co}$ reaction has a Q -value of -5.962 MeV while the breakup reactions $^{58}\text{Ni}(n;n',p+p,n')^{57}\text{Co}$ have a higher Q -value of -8.177 MeV. Weak binding and barrier penetration considerations are responsible for the fact that deuteron emission does not compete strongly with breakup. In all instances, ^{57}Co is the final product nucleus. ^{57}Co decays with a half life of 272 days to ^{57}Fe via electron capture. Consequently, activation techniques can be utilized to measure the cross section $\sigma_{n;n',p+p,n'+d}$. The fraction due to deuteron emission cannot be distinguished from the breakup fraction by this method. There is a source of error in activation measurements if no correction is made for the $^{58}\text{Ni}(n;2n)^{57}\text{Ni}$ (ϵ, β^+) ^{57}Co contributions. This correction is not hard to make.

The distinction between the $^{58}\text{Ni}(n;n',p)^{57}\text{Co}$ and $^{58}\text{Ni}(n;p,n')^{57}\text{Co}$ reaction is one of reaction dynamics and should really be looked upon as separate exit channels for decay of the compound nucleus ^{59}Ni . The difference in dynamics leads to differences in the neutron and proton energy spectra which may have important consequences

in so far as applications are concerned. In the absence of measurements the decay fractions for these channels is determined by compound-nucleus calculations. A few calculations of this nature have been made for 14 MeV neutrons, but the results leave much to be desired.

We first consider the available data from activation studies. The results of barrall et al. (81), Glover and Weigold (77), Fink and Lu (82), Temperly (85), Cross et al. (79), Cross and Clarke (137) and Bramlitt and Fink (80) are reasonably consistent. The activation data of Purser and Titterton (89) and Jeronymo et al. (87) yield cross sections which are much smaller. With the exception of the data of Jeronymo et al., the above measurements are all in the region 13-15 MeV.

There have been various measurements involving detection of the charged reaction products. Many of these utilized nuclear emulsion techniques. Without exception, the cross sections derived from these measurements are low. Included in this group is the work of Alvar (138), Allan (116,120), Kumabe and Fink (139) and Glover and Purser (140). The data point of Allan (116) was included in the evaluation because it came closest to the activation values. The rest were rejected. Statistical calculation of the (n,d) reaction on ^{58}Ni by Lu and Fink (141) indicates a cross section of 0.01 barn at $E_n = 14.4$ MeV. Debertin and Roesle measured the deuteron spectrum for this reaction at 22 MeV and deduced a cross section of 0.0235 ± 0.004 barn including contributions from transitions up to ~ 8 MeV excitation in the final nucleus ^{57}Co (104). Statistical calculations by Buetner et al. (132) indicate a cross section of ~ 0.006 barn for $E_n = 14.1$ MeV. This sparse experimental and theoretical evidence is

sufficient to conclude that the (n;d) contribution is a small perturbation to the breakup components. Our evaluation is based mostly on qualitative estimates with the results shown in Fig. 26.

Since the (n;d) contribution is small, the activation data is essentially due to the (n;n',p+p,n') components. We selected a value of 0.55 barn at 14.5 MeV as being representative of the experimental data. The data set of Jeronymo et al. (87), while apparently discrepant in normalization, is the only one which covers the energy range 12-20 MeV. A curve was drawn through the data of Jeronymo et al. and then renormalized by a factor of 3.55 so that the curve would pass through the selected 14.5 MeV value of 0.55 barn. The shape of the excitation function near threshold remains a matter of speculation.

The statistical calculations of the (n;n',p) and (n;p,n') contributions by Lu and Fink yielded a value of 2.5 at 14 MeV for the ratio $\sigma_{n,n'.p} / \sigma_{n,p,n'}$ (141). The behavior at other energies is unknown. However, the present evaluation approximates this spectrum with a single evaporation distribution following the procedures used for the (n;2n') reaction. In the absence of definitive experimental results this estimate must be considered qualitative. The above evaluation and respective data base are illustrated in Fig. 27.

The $^{60}\text{Ni}(n;d)^{59}\text{Co}$ and $^{60}\text{Ni}(n;n',p+p,n')^{59}\text{Co}$ Reactions

There is very little information available on these two reactions. Colli and Iori (142) measured the differential cross section for the (n;d) reaction at an angle of 140 deg. (28° opening angle) and $E_n = 14$ MeV. For the ground state transition they obtain $\frac{d\sigma}{d\Omega} = 1.9 (\pm 10\%)$

mb/sr. The ground state group is strongest, but from the appearance of the deuteron spectrum, there are unresolved levels corresponding to excitations up to ~ 3 MeV. It is estimated that $\frac{d\sigma}{d\Omega}$ for $E_x \lesssim 3$ MeV ($E_d > 4$ MeV) is ~ 4 mb/sr. It is difficult to estimate the integrated cross section of the basis of the limited data. Assuming isotropy we obtain $\sigma_{n,d} \lesssim 50$ mb. There is evidence based on $^{56}\text{Fe}(n;d)^{55}\text{Mn}$ angular distribution measurements by Colli et al. (143) that the assumption of isotropy is poor since the distributions exhibit the characteristic forward peaking of the direct pickup mechanism. Thus, $\sigma_{nd} \sim 50$ mb is almost certainly an overestimate.

Data on the $(n;n',p)$ reaction have been deduced by peeling off the $(n;p)$ contribution from nuclear emulsion measurements. Chatterjee (144) reviewed the 14 MeV data on $(n;p)$ and $(n;p,x)$ reactions as of 1964. There are apparently no newer results. The values reported by Chatterjee are: $\sigma_{n,np} = 60 \pm 12$ mb (from Allan (120)), ~ 68 mb (from March and Morton (11b) and 59 ± 9 mb (from Allan (116)). There is also a 15° differential scattering value of $\frac{d\sigma}{d\Omega} (n;n',p) \lesssim 25.9 \pm 5.2$ mb (from Colli (145)). Calculations by Buetner et al. (132) of the $(n;n',p)$ cross section for $E_n = 14-16$ MeV show that it increases rapidly from 12 mb at 14 MeV to ~ 120 mb at 16 MeV. If this is true, then the experimental data must be very uncertain in this region.

With the above evidence, evaluation must be a speculative and qualitative. We assume a 14 MeV $(n;d)$ cross section value of 30 mb and the shape of the same reaction in ^{58}Ni , adjusted to the correct threshold. We follow the same procedure for the $(n;n',p+p,n')$ reaction using a 14 MeV normalization of 65 mb. These are rough

estimates which may be in error by factors of 2 to 5. However, the effects on application are probably small as the cross sections are not large and the isotopic contribution is small.

G. (n;t) Reaction

The thresholds for this reaction in both the prominent isotopes are above 11.0 MeV. The cross sections should be smaller than those of the (n;d) reaction (already small). Essentially no experimental information is available. Therefore, this process was omitted in the present evaluation.

H. (n;2p) and (n;³He) Reactions

Both of these processes have relatively low thresholds in ⁵⁸Ni (~ 6.5 MeV). They are experimentally essentially unknown and are probably similar to the (n;d) cross section, (i.e., small). Therefore, they were also omitted.

I. (n;2p,n'), (n;p,2n') and (n;p, α) Reactions

The first two of these have thresholds of ~ 15.0 MeV. The lowest (n;p, α) threshold is ~ 6.5 MeV. Little is known about any of these processes and the cross sections are expected to be small. Therefore, they are not included in the present evaluation.

J. Photon Production

The photon-production evaluated cross sections were a composite of three contributions: 1) from neutron capture, 2) from (n;n', γ) reactions, and 3) and from high (> 4.0 MeV) neutrons as per the following.

Photon Production from Neutron Capture

The spectrum of capture gamma-rays at thermal neutron energy was taken from Ref. 146. The spectrum was assumed not to vary with incident neutron energy. While this assumption is obviously incorrect, no better prescription is known. The gamma-ray multiplicity was assumed to vary with incident neutron energy according

to the relationship:

$$M(E_n) = M(\text{Th}) * (E_n + Q) / Q ,$$

where $M(E_n)$ is the multiplicity at incident energy E_n ,
 $M(\text{Th})$ is the multiplicity at thermal neutron energy
and Q is the Q -value of the reaction.

Photon Production from the (n, n', γ) Reactions for $E_n < 4$. MeV
----- \bar{n} -----

As outlined in Section V.3.A, discrete excitation functions are given for $(n; n', \gamma)$ reactions for levels up to 3.628 MeV. Several of the "states" are mixtures or combinations of levels from ^{58}Ni and ^{60}Ni which could not be resolved experimentally. Direct measurements of photon production are reported in Refs. 147, 148 and 149. Only Ref. 149 reports data for incident energies less than 4 MeV. The gamma-ray production cross sections from 1 to 4 MeV reported in Ref. 149 presented the data in .25 MeV bins from .75 to 2 MeV and in .5 MeV bins for photon energies ≥ 2 MeV. In order to conserve energy between the excitation functions for neutron inelastic scattering and photon production for incident energies less than 4 MeV, level schemes and branching ratios were adopted for ^{58}Ni and ^{60}Ni from data provided in Refs. 23 and 150. Because some levels could not be resolved experimentally the adopted level schemes and disintegration modes are somewhat artificial. The assumed structure data are presented in Figs. 28 and 29 which can be compared with Fig. 4. As a check against the experimental data, the total photon production cross section at the upper end of this energy range (i.e., 4 MeV) was compared with the measured values reported in Ref. 149. It was found that the line spectra obtained as described here agreed within experimental error with the measurement.

Photon Production Cross Sections and Spectra 4.0 \leq
 $E_n \leq 20$ MeV

The experimental data reported in Refs. 147, 148 and 149 are in substantial agreement where they overlap. Since Ref. 149 covered the entire energy range the values for the cross section and spectra are based on the data of that reference. Because of a low energy cut-off at 0.75 MeV, two lower groups were added from 0.25 to 0.5 MeV and from 0.5 to 0.75 MeV with a value of 0.13 barns for the first of these and 0.26 barns for the second.

Comparison with ENDF/B-IV MAT 1190

The main difference between this evaluation and that of MAT 1190 is in the energy range from 1 to 4 MeV incident neutron energy. The ENDF/B-IV data are based on Ref. 149 from 1 to 20 MeV while the data presented here are based on the same reference but from 4 to 20 MeV. The reconciliation of inelastic scattering functions and photon production data from 1 to 4 MeV described above was not done in the ENDF/B evaluation.

VI. CONCLUDING REMARK

The total neutron cross sections of elemental nickel were determined at intervals of a keV from 0.25 to 5.0 MeV. The experimental values confirm the energy-averaged magnitudes of previously reported high resolution measurements at lower energies and give new definition in the few-MeV range. The differential elastic neutron scattering cross sections of nickel were measured from a 300 keV to 4.0 MeV with sufficient resolution to portray intermediate fluctuating structure. The cross sections for the inelastic neutron excitation of eight states to energies of 2.8 MeV were determined for incident neutron energies up to 4.0 MeV. The experimental results were described reasonably

well by an optical-statistical model including corrections for resonance width fluctuation and correlation effects in compound-nucleus processes. The latter correction factors were significant and the interpretation was limited by uncertainties in their calculation. Contributions due to direct collective excitations were estimated by calculation and found to be small. They could not be identified in the present experimental results obtained at energies of ≤ 4.0 MeV.

The present experimental and calculational results together with those reported in the literature, were used to construct a comprehensive evaluated neutronic file in the ENDFformat. This evaluated file extended from 0.1 to 20.0 MeV and was extrapolated to thermal energies using the values previously defined in ENDF/B-IV. The present evaluation and that of ENDF/B-IV are substantively different in certain areas.

REFERENCES

1. Nickel reflectors are commonly considered in fast reactor systems, e.g., FFTF.
2. F. Perey, private communication, data available from the National Neutron Cross Section Center.
3. W. Hauser and H. Feshbach, Phys. Rev., 87 366 (1952), see also L. Wolfenstein, Phys. Rev., 82 690 (1951).
4. P. Moldauer, Rev. Mod. Phys., 36 1079 (1964) and subsequent private discussions.
5. P. Moldauer, Proc. Conf. on Statistical Properties of Nuclei, Ed. J. Garg, Plenum Press, P. 335, New York (1972).
6. Evaluated Nuclear Data File-B, National Neutron Cross Section Center, Brookhaven National Laboratory, (ENDF/b), here we refer to the preliminary version of ENDF/B-IV. This version was later released as MAT-1190.
7. D. Miller, Fast Neutron Physics, Vol. 2, P 985, Ed. J. Marion and J. Fowler, Interscience Pub., New York (1963).
8. J. Whalen, R. Roge and A. Smith, Nucl. Instr. and Methods, 39 185 (1966).
9. J. Whalen, Applied Physics Division Annual Report for 1972, Argonne National Laboratory, to be published.
10. A. Smith and P. Guenther, Applied Physics Division Annual Report for 1972, Argonne National Laboratory, to be published.
11. J. Hopkins and G. Breit, Nucl. Data A9 145 (1971).
12. A. Langsdorf, Jr., R. Lane, and J. Monahan, Argonne National Laboratory Report, ANL-5567(Rev.), (1961).
13. A. Smith and P. Guenther, PARD, Program for the acquisition and reduction of data, Argonne National Laboratory Memorandum, unpublished (1973).
14. S. Cierjacks, P. Forti, D. Kopsch, L. Kropp, J. Nebe and H. Unseld, Kernforschungszentrum Karlsruhe Report KFK-1000, (1968).
15. H. Goldberg, S. Mughabghab, B. Magurno and V. May, Brookhaven National Lab. Report BNL-325, 2nd Ed., Suppl. 2, (1966), see also prior additions.
16. A. Lane and R. Thomas, Rev. Mod. Phys., 30 257 (1958), see P. 293.
17. I. Korzh et al., Atom. Energy 16 260 (1964).
18. S. Cox, private communication, data available from National Neutron Cross Section Center, Brookhaven National Lab.

19. M. Walt and H. Barschall, Phys. Rev., 93 1062 (1954).
20. B. Holmqvist and T. Wiedling, Aktiebolaget Atomenergi Report AE-385 (1970), see also AE-430 (1971).
21. K. Tsukada et al., Nucl. Phys., A125 641 (1969), see also data available at NNCS, BNL.
22. M. Mackwe et al., Phys. Rev., 114 1563 (1959).
23. Nuclear Level Schemes A=45 Through A=257 From Nuclear Data Sheets, Edited by Nuclear Data Group, Oak Ridge National Lab., Academic Press Inc., New York (1973).
24. P. Boschung, J. Lindlow and L. Shrader, Nucl. Phys. A161 593 (1971).
25. W. Rodgers, E. Shrader and J. Lindlow, Chicago Operations Office Report COO 1573, 33 (1967).
26. F. Perey, C. Le Rigoleur and W. Kinney, Oak Ridge National Laboratory Report ORNL-4523 (1970), see also W. Kinney and F. Perey, ORNL-4807 (1974).
27. I. Cranberg and J. Levin, Phys. Rev., 103 343 (1952).
28. R. Day, Phys. Rev., 102 767 (1956).
29. V. Scherrer, B. Allison and R. Faust, Phys. Rev., 96 386 (1954).
30. V. Rogers, L. Beghian, F. Clikeman and F. Mahoney, Nucl. Phys. A144 81 (1970).
31. V. Sluchaevskaia, ANL Trans. 168, Bull. Information Center for Nucl. Data, USSR, (1964).
32. D. Smith, Private Communication.
33. P. Hodgson, The Optical Model of Elastic Scattering, Clarendon Press, Oxford (1963).
34. H. Feshbach, C. Porter and V. Weisskopf, Phys. Rev., 90 166 (1953).
35. P. Moldauer, Nucl. Phys., 47 65 (1963).
36. C. Engelbrecht and H. Fiedeldey, Ann. Phys., 42 262 (1967).
37. S. Mughabghab and D. Gardener, Brookhaven National Laboratory Report, BNL-325, 3rd Ed., Vol.-1 (1973).
38. P. Moldauer, C. Engelbrecht and G. Duffey, Argonne National Laboratory Report, ANL-6978 (1964).
39. J. Kammerdiener, Lawrence Livermore Laboratory Report, UCRL-51232 (1972).
40. R. Bauer, J. Anderson and L. Christensen, Nucl. Phys. 48 152 (1963).
41. R. Clark and W. Cross, Nucl. Phys., A95 320 (1967).

42. T. Tamura, Oakridge National Laboratory Report, ORNL-4152 (1967).
43. M. Preston, Physics of the Nucleus, Addison-Wesley Pub. Co., Reading, Mass. (1963).
44. P. Stelson and L. Grodzins, Nucl. Data A1 21 (1965).
45. P. Stelson et al., Nucl. Phys., b8 97 (1965).
46. See Reference 41, above.
47. P. Moldauer, Bull. Am. Phys. Soc., 19 988 (1974).
48. M. Kawai, A. Kerman and K. McVoy, Ann. Phys. (NY) 75 156 (1973).
49. H. Weidenmuller, Phys. Rev., C9 1202 (1974).
50. J. Cabe et al., CEA Report CEA-3279R, data available at the NNCSC.
51. Numerical data obtained from the NNCSC, origin uncertain.
52. C. Hibdon, data obtained from the NNCSC.
53. D. Foster and D. Glasgow, Phys. Rev., C3 576 (1971).
54. D. Miller, data as given by NNCSC, see also Barschall et al., Phys. Rev., 73 659 (1948).
55. Numerical data obtained from the NNCSC, origin uncertain.
56. R. Block et al., private communication, data available at the NNCSC.
57. R. Zuhr and K. Min, Nucl. Phys., A237 29 (1975).
58. J. Blatt and V. Weisskopf, Theoretical Nuclear Physics, J. Wiley and Sons, N.Y. (1952).
59. J. Griffin, Phys. Rev. Let., 17 478 (1966).
60. C. Cline and M. Blann, Nucl. Phys., A172 225 (1971).
61. S. Mathur et al., NDL-TR-66 (1967).
62. J. Voiginer et al., Proc. 3rd Conf. on Neutron Cross Sections and Technology, Conf-710301, (1971).
63. D. Seeliger et al., Proc. 2nd Kiev Conf. on Nuclear Data, Vol.-I, P-269, (1973).
64. C. Wong et al., Lawrence Livermore Lab. Report, UCRL-51144, (1973).
65. C. Le Rigoleur et al., CEA-N-166 (1973).
66. M. Moxon et al., Evaluated Data Set, Private Communication.
67. B. Diven et al., Phys. Rev., 120 556 (1960).
68. L. Spitz et al., Nucl. Phys., A121 655 (1968).
69. T. Belanova, ZET 34 574 (1958).
70. R. Macklin and J. Gibbons, Phys. Rev., 159 1007 (1967).
71. R. Lockenbury et al., Phys. Rev., 178-1746 (1969).
72. W. Poenitz, private communication, see also proc. Conf. on Nuclear Cross Sections and Technology, Washington (1975).

73. C. Rohrman, Chart of the Nuclides, Compiled by Battelle-Northwest Lab., (1969).
74. R. Prestwood and B. Bayhurst, Phys. Rev., 121 1438 (1961).
75. A. Paulsen and H. Liskien, Nukleonik 7 117 (1965).
76. M. Borman et al., as referenced in EUR-119E, Vol.-2 (1967).
77. R. Glover and E. Weigold, Nucl. Phys., 29 309 (1962).
78. L. Rayburn, Phys. Rev., 122 168 (1961).
79. W. Cross, R. Clarke, K. Morin, G. Slinn, N. Ahmed and K. Beg, Bull. Am. Phys. Soc., II 7 335 (1962).
80. E. Bramlitt and R. Fink, Phys. Rev., 131 2649 (1963).
81. R. Barrall, M. Silbergeld and D. Gardner, Nucl. Phys., A138 387 (1969).
82. R. Fink and Wen-Deli-Lu, Bull. Am. Phys. Soc., II 15 1372 (1970).
83. E. Paul and R. Clarke, Can. Jour. Phys., 31 267 (1953).
84. J. Strain and W. Ross, Oak Ridge National Lab. Report, ORNL-3672(1965).
85. J. Temperly, Nucl. Sci. and Eng., 32 195 (1968).
86. L. Rayburn, Bull. Am. Phys. Soc., II 3 365 (1958).
87. J. Jeronymo, G. Mani, J. Olkowsky, A. Sadephi and C. Williamson, Nucl. Phys., 47 157 (1963).
88. I. Preiss and R. Fink, Nucl. Phys., 15 326 (1960).
89. K. Purser and E. Titterton, Australia J. Phys., 12 103 (1959).
90. J. Csikai, Conf. on the Study of Nuclear Structure with Neutrons, Paper 102, North-Holland Pub. Co., Amsterdam (1965).
91. J. Csikai and G. Peto, ACTR. Phys. ACAD. Sci. Hungaricae, 23 87 (1967).
92. L. Jeki, Central Research Institute of Physics Report, KFKI-73-68 (1973) Budapest, Hungary.
93. Z. Boly and J. Csikai, Atomic Energy Review 11, NO-1, 153 (1973).
94. S. Pearlstein, Nucl. Sci. and Eng., 23 238 (1965).
95. S. Rowan, Nuclear Data Sheets for A-58, Nucl. Data B3 4 (1970).
96. R. Simons and W. McElroy, Battelle-Northwest Lab. Report BNWL-1312 (1970).
97. W. McElroy, R. Simons and S. Kellog, Hanford Engineering and Development Lab. Report HEDL-TML-71 179 (1971).
98. A. Bresesti, M. Bresesti, A. Rota, R. Rydin and L. Lesca, Nucl. Sci. and Eng., 40 331 (1970).
99. A. Paulsen and R. Widera, Proc. Conf. on Chem. Nucl. Data--Measurements and Applications, M. Wurrell Ed., Institute of Civil Eng., London (1971).

100. H. Liskien and A. Paulsen, EURATOM Report EUR-119E, Vol.-2 (1968).
101. CINDA-73, IAEA Press, Vienna (1973).
102. D. Smith and J. Meadows, Argonne National Lab. Report ANL-7984 (1973).
103. J. Meadows and J. Whalen, Phys. Rev., 130 202 (1963).
104. K. Debertin and E. Roesle, Nucl. Phys., 70 89 (1965).
105. J. Barry, Jour. Nucl. Energy, A/B-16 467 (1962).
106. L. Gonzalez, J. Rapaport and J. Van Loef, Phys. Rev., 120 1319 (1960).
107. J. Van Loef, Nucl. Phys., 24 340 (1961).
108. K. Nakai, h. Gotoh and H. Amano, Jour. Phys. Soc. Japan, 17 1215 (1962).
109. J. Konijn and A. Lauber, Nucl. Phys., 48 191 (1963).
110. M. Borman, F. Dreyer, U. Seebeck and W. Voights Zeits, fur Naturforschung 21A 988 (1966).
111. M. Borman, F. Dreyer, H. Neuert, I. Riehle and U. Zielinski, Nuclear Data for Reactions, Vol.-1, P-225, IAEA Press, Vienna (1967).
112. A. Paulsen, Nukleonik 10 91 (1967).
113. H. Liskien and A. Paulsen, nukleonik 8 315 (1966).
114. H. Liskien and A. Paulsen, Nucl. Phys., 63 393 (1965).
115. A. Paulsen, Zeits. fur Phys., 205 226 (1967).
116. D. Allan, Nucl. Phys., 24 274 (1961).
117. V. Levkovskij, G. Vinit'skaya, G. Kovelskaya and V. Stepanov, Sov. Jour. of Nucl. Phys., 10 25 (1969).
118. P. March and W. Morton, Phil. Mag., 3 577 (1958).
119. J. Storey et al., Proc. Phys. Soc., A75 526 (1960).
120. D. Allan, Proc. Phys. Soc., A70 193 (1957).
121. R. Prasad and D. Sarkar, Nuovo Cimento, 3A 467 (1971).
122. H. Blosser and T. Handley, USAEC Report Wash-191 (1956).
123. W. Cross et al., EANDC(CAN)-16 (1963).
124. A. Valter et al., Izv. Akad. Nauk USSR (Ser. Fiz.) 26 1079 (1962).
125. H. Pai, R. Clarke and W. Cross, Nucl. Phys., A164 526 (1971).
126. D. Gardner and S. Rosenblum, Nucl. Phys., A96 121 (1967).
127. J. Weitman, N. Daaverhoeg and S. Farvolden, A. B. Atomenergi, Studsvik, Sweden, Values as given by the National Neutron Cross Section Center, Brookhaven National Lab.
128. W. Slinn and J. Robson, CAN. Jour. Phys., 41 545 (1963).
129. C. Spira and J. Robson, Nucl. Phys., A127 81 (1969).

130. U. Seebeck and M. Borman, Nucl. Phys., 68 387 (1965).
131. D. Gardner and Yu-Wen Yu, Nucl. Phys., 60 49 (1964).
132. H. Buetner, A. Lindner and H. Meldner, Nucl. Phys., 63 615 (1965).
133. R. Meyer, KFK-1270/1 (1970).
134. J. Eriksson, EANDC(OR)-73 (1968).
135. J. Schmidt, KFK-120, Part-1, (1960).
136. Yu-Wen Yu and D. Garner, Nucl. Phys., A98 451 (1967).
137. W. Cross and R. Clarke, Chalk River Lab. Report AECL-1542 (1962).
138. K. Alvar, Nucl. Phys., A195 289 (1972).
139. I. Kumabe and R. Fink, Nucl. Phys., 15 316 (1960).
140. R. Glover and K. Purser, Nucl. Phys., 24 431 (1961).
141. Wen-Deh Lu and R. Fink, Phys. Rev., C4 1173 (1971).
142. L. Colli, J. Iori, S. Micheletti and M. Pignaneli, Nuovo Cimento, 20 94 (1961).
143. L. Colli, E. Gadioli, S. Micheletti and D. Lucioni, Nucl. Phys., 46 73 (1963).
144. A. Chatterjee, Nucleonics, 23 8 (1965).
145. L. Colli et al., Nuovo Cimento, 21 966 (1961).
146. V. Orphan et al., General Atomics Report, GA-10248 (1970).
147. D. Drake et al., Nucl. Sci. and Eng., 40 294 (1970).
148. W. Tucker, private communication, see also ORO-2791-30 (1969) and ORO-2791-32 (1971).
149. J. Dickens, T. Love and G. Morgan, Oak Ridge National Laboratory Report, ORNL-TM-4379 (1973).
150. C. Lederer, J. Hollander and I. Perlman, Table of Isotopes, 6th Ed., John Wiley and Sons, New York (1967).

Table 1

Optical Model Parameters^a

| | | |
|------------------------------|----------------------------|-------------------------|
| $V^b = 50.80 \text{ MeV},$ | $R_V^e = 1.198 \text{ F},$ | $A_V = 0.66 \text{ F}$ |
| $W^c = 9.25 \text{ MeV},$ | $R_W^e = 1.204 \text{ F}$ | $A_W = 0.484 \text{ F}$ |
| $V_{so}^d = 8.0 \text{ MeV}$ | | |

- a) These parameter values are identical to those of Ref. 20. Their use in the present work involves compound-nucleus corrections as described in the text.
- b) Saxon form.
- c) Saxon derivative form.
- d) Thomas Spin - orbit form.
- e) Radii are expressed in form $R=R_1 \cdot A^{1/3}$.

Table 2

Excited "Levels" Contributing to Discrete
 Inelastic Neutron Excitation
 Cross Sections

| Level | E_x (MeV) | E_{th} (MeV) |
|-------|-------------|----------------|
| 1 | 1.172 | 1.192 |
| 2 | 1.333 | 1.355 |
| 3 | 1.454 | 1.479 |
| 4 | 2.158 | 2.195 |
| 5 | 2.286 | 2.324 |
| 6 | 2.459 | 2.500 |
| 7 | 2.506 | 2.548 |
| 8 | 2.625 | 2.670 |
| 9 | 2.775 | 2.822 |
| 10 | 2.960 | 3.010 |
| 11 | 3.270 | 3.325 |
| 12 | 3.628 | 3.689 |

Table 3

Summary of (n;X) Reaction Thresholds (in MeV)

| Reaction | $^{58}_{\text{Ni}}$ | $^{60}_{\text{Ni}}$ | $^{62}_{\text{Ni}}$ |
|---------------------|---------------------|---------------------|---------------------|
| (n;2n') | 12.415 | 11.579 | 10.770 |
| (n;3n') | 22.862 | 20.731 | 18.717 |
| (n;p) | 0 | 2.074 | 4.511 |
| (n;p,n') | 8.319 | 9.692 | 11.302 |
| (n;d) | 6.056 | 7.430 | 9.041 |
| (n;t) | 11.265 | 11.703 | 11.580 |
| (2;2p) | 6.671 | 10.488 | 14.460 |
| (n; ^3He) | 6.599 | 9.338 | 12.375 |
| (n; α) | 0 | 0 | 0.442 |
| (n; α ,n') | 6.519 | 6.401 | 7.136 |
| (n;2p,n) | 14.451 | 17.186 | 2.022 |
| (n;p,2n') | 19.895 | 20.329 | 20.790 |
| (n;p, α) | 6.430 | 9.367 | 10.502 |

FIGURE CAPTIONS

- Fig. 1 Total and elastic scattering cross sections of elemental nickel. The present experimental total cross sections are indicated by a solid curve (below 1.5 MeV) and circular data points (above 1.5 MeV). The angle-integrated elastic scattering cross sections are indicated by square data points. The dotted line indicates the evaluated total neutron cross section described in Sec. V of the text.
(Neg. No. 116-2359)
- Fig. 2 Differential elastic scattering cross sections of elemental nickel. The present experimental results, averaged over 50 keV resolution increments, are indicated by circular data points. The curves indicate the results of fitting Legendre polynomial series to the measured values.
(Neg. No. 116-2360)
- Fig. 3 Comparisons of selected differential elastic scattering cross sections of the present work with previously reported values and with the results of model calculations. The present experimental values are indicated by circular data points; those of Ref. 17 by \square , Ref. 18 by Δ , Ref. 19 by \dagger , Ref. 20 by \times , Ref. 21 by ∇ , Ref. 22 by \leftarrow , Ref. 24 by μ and Ref. 26 by \times . The indicated incident neutron energies are those of the present results (in MeV). Some of the previously reported values may differ in incident energy by 5-10 percent. The results of model calculations described in Sec. IV of the text are indicated by curves.
(Neg. No. 116-2470)
- Fig. 4 Excited structure of ^{58}Ni , ^{60}Ni and ^{62}Ni . Previously reported values, as summarized in the Nuclear Data Sheets (23), are shown for each of the isotopes. The results of the present experiments are noted by the boxes at the right of the diagram where the width of the boxes qualitatively indicates the experimental energy definition.
(Neg. No. 116-2164)

- Fig. 5 Inelastic neutron excitation cross sections of nickel. The corresponding excitation energies (in MeV) and contributing isotopes are noted. The present experimental results are indicated by solid data points. Other (n;n') and (n;n' γ) experimental results are referenced as follows: Δ =21, \dagger = 30, \times =24, \triangleright =26, \ddagger =29, $\bar{\times}$ =25, \mathcal{Z} = 31 and \mathcal{Y} = 26. The solid curve indicates the evaluation described in Sec. V. of the text. The results of statistical model calculations are noted by the dotted curves and, when inclusive of direct-reaction contributions, by dashed curves.
(Neg. No. 116-2705)
- Fig. 6 Comparison of measured and calculated total neutron cross sections of nickel.
(Neg. No. 116-2706)
- Fig. 7 Comparison of measured and calculated differential cross sections for the elastic scattering of 3.5 MeV neutrons from nickel. The measured values are indicated by data points. The calculated results are noted by curves obtained using the indicated values of the overlap parameter, Q .
(Neg. No. 116-2707)
- Fig. 8 Comparison of the present evaluated nickel total neutron cross sections with those given in ENDF/B-IV.
(Neg. No. 116-2329)
- Fig. 9 Comparison of the present evaluated elastic neutron scattering cross sections of nickel with those given in ENDF/B-IV.
(Neg. No. 116-2710)
- Fig.10 Evaluated elastic scattering distributions normalized to a constant elastic scattering cross section of one barn.
(Neg. No. 116-2712)
- Fig.11 Some comparisons of evaluated discrete inelastic neutron excitation cross sections. The present evaluation is indicated by solid curves and that of ENDF/B-IV by dashed lines.
(Neg. No. 116-2713)
- Fig.12 Evaluated inelastic neutron scattering cross sections. The results of the present evaluation are indicated by solid curves. In addition the total inelastic cross section given

by ENDF/B-IV is noted.

(Neg. No. 116-2711)

Fig.13 Comparison of evaluated radiative capture cross sections of nickel.

(Neg. No. 116-2709)

Fig.14 Evaluated ($n;2n'$) cross sections of nickel. The isotopic and "NAT" values are from the present work. The ENDF/B-IV values for the natural element are also indicated.

(Neg. No. 116-2704)

Fig.15 The ($n;2n'$) cross sections of ^{58}Ni . The experimental values are from Refs. 75-84 and the smooth curve is the present isotopic evaluation.

(Neg. No. 116-2191)

Fig.16 Comparison of the present evaluated ($n;p$) cross sections with those given in ENDF/B-IV.

(Neg. No. 116-2703)

Fig.17 The ($n;p$) cross sections of ^{58}Ni below 6.0 MeV. The experimental values are discussed in Sec. V of the text and the curve indicates the present evaluation.

(Neg. No. 116-2190)

Fig.18 The ($n;p$) cross sections of ^{58}Ni over the entire energy range of the evaluation. The experimental points are discussed in Sec. V of the text. The curve indicates the present evaluated results.

(Neg. No. 116-2189)

Fig.19 The ($n;p$) cross sections of ^{60}Ni . The experimental results are discussed in Sec. V of the text. The curve is the present evaluation.

(Neg. No. 116-2393)

Fig.20 The ($n;p$) cross sections of ^{61}Ni . The notation is identical to that of Fig. 19.

(Neg. No. 116-2394)

Fig.21 Comparison of the present evaluated ($n;a$) cross sections with those given in ENDF/B-IV.

(Neg. No. 116-2702)

- Fig.22 Measured and evaluated (n;u) cross section of ^{58}Ni .
(Neg. No. 116-2207)
- Fig.23 Evaluated (n;n' α ,n') cross sections of nickel.
(Neg. No. 116-2699)
- Fig.24 Comparison of evaluated (n;n',p+p,n') cross sections of nickel.
(Neg. No. 116-2701)
- Fig.25 Evaluated (n;d) cross sections of nickel.
(Neg. No. 116-2700)
- Fig.26 Evaluated (n,d) cross sections of ^{58}Ni .
(Neg. No. 116-2209)
- Fig.27 Measured and evaluated (n;n'p+p,n') cross sections of ^{58}Ni .
(Neg. No. 116-2208)
- Fig.28 Level scheme of ^{58}Ni used in the gamma-ray production evaluation.
(Neg. No. 116-7516)
- Fig.29 Level scheme of ^{60}Ni used in the gamma-ray production evaluation.
(Neg. No. 116-7517)

APPENDIX

NUMERICAL EVALUATED DATA FILE IN THE ENDF/B FORMAT

| | | | | | | | | | |
|---|------------|-----------|-----|-----|---|----|----|---------|----|
| 21.-0000+ | 4 5.81826+ | 1 | 1 | 0 | 0 | 0 | 55 | 28 1451 | 1 |
| | + 0 0.0 | | 0 | 0 | 0 | 12 | 0 | 28 1451 | 2 |
| 24 NI, REFERENCE | ANL/NDM- | 11, 1975. | | | | | | 28 1451 | 3 |
| AUTHORS, A. SMITH, J. WALEN, P. GUENTHER, D. SMITH, R. HOWERTON | | | | | | | | 28 1451 | 4 |
| C EVALUATION NEW FOR ALL ENERGIES ABOVE 0.1 MEV | | | | | | | | 28 1451 | 5 |
| C BELOW 0.1 MEV EVALUATION USES ENDF/B- IV | | | | | | | | 28 1451 | 6 |
| C | | | | | | | | 28 1451 | 7 |
| C | | | | | | | | 28 1451 | 8 |
| C | | | | | | | | 28 1451 | 9 |
| C | | | | | | | | 28 1451 | 10 |
| C | | | | | | | | 28 1451 | 11 |
| C | | | | | | | | 28 1451 | 12 |
| C | | | | | | | | 28 1451 | 13 |
| C | | | | | | | | 28 1451 | 14 |
| C | | | | | | | | 28 1451 | 15 |
| | | 1 | 491 | 69 | | | | 28 1451 | 16 |
| | | 2 | 151 | 64 | | | | 28 1451 | 17 |
| | | 3 | 1 | 845 | | | | 28 1451 | 18 |
| | | 3 | 2 | 845 | | | | 28 1451 | 19 |
| | | 3 | 4 | 22 | | | | 28 1451 | 20 |
| | | 3 | 16 | 11 | | | | 28 1451 | 21 |
| | | 3 | 22 | 6 | | | | 28 1451 | 22 |
| | | 3 | 28 | 6 | | | | 28 1451 | 23 |
| | | 3 | 28 | 7 | | | | 28 1451 | 24 |
| | | 3 | 51 | 12 | | | | 28 1451 | 25 |
| | | 3 | 52 | 12 | | | | 28 1451 | 26 |
| | | 3 | 53 | 12 | | | | 28 1451 | 27 |
| | | 3 | 54 | 8 | | | | 28 1451 | 28 |
| | | 3 | 55 | 8 | | | | 28 1451 | 29 |
| | | 3 | 56 | 8 | | | | 28 1451 | 30 |
| | | 3 | 57 | 7 | | | | 28 1451 | 31 |
| | | 3 | 58 | 7 | | | | 28 1451 | 32 |
| | | 3 | 59 | 8 | | | | 28 1451 | 33 |
| | | 3 | 60 | 8 | | | | 28 1451 | 34 |
| | | 3 | 61 | 7 | | | | 28 1451 | 35 |
| | | 3 | 62 | 7 | | | | 28 1451 | 36 |
| | | 3 | 91 | 8 | | | | 28 1451 | 37 |
| | | 3 | 102 | 221 | | | | 28 1451 | 38 |
| | | 3 | 103 | 37 | | | | 28 1451 | 39 |
| | | 3 | 104 | 7 | | | | 28 1451 | 40 |
| | | 3 | 107 | 14 | | | | 28 1451 | 41 |
| | | 3 | 251 | 23 | | | | 28 1451 | 42 |
| | | 3 | 252 | 23 | | | | 28 1451 | 43 |
| | | 3 | 253 | 23 | | | | 28 1451 | 44 |
| | | 4 | 2 | 197 | | | | 28 1451 | 45 |
| | | 4 | 16 | 10 | | | | 28 1451 | 46 |
| | | 4 | 22 | 10 | | | | 28 1451 | 47 |
| | | 4 | 28 | 10 | | | | 28 1451 | 48 |
| | | 4 | 51 | 37 | | | | 28 1451 | 49 |
| | | 4 | 52 | 37 | | | | 28 1451 | 50 |
| | | 4 | 53 | 37 | | | | 28 1451 | 51 |
| | | 4 | 54 | 10 | | | | 28 1451 | 52 |
| | | 4 | 55 | 10 | | | | 28 1451 | 53 |
| | | 4 | 56 | 10 | | | | 28 1451 | 54 |
| | | 4 | 57 | 10 | | | | 28 1451 | 55 |
| | | 4 | 58 | 10 | | | | 28 1451 | 56 |
| | | 4 | 59 | 10 | | | | 28 1451 | 57 |
| | | 4 | 60 | 10 | | | | 28 1451 | 58 |
| | | 4 | 61 | 10 | | | | 28 1451 | 59 |
| | | 4 | 62 | 10 | | | | 28 1451 | |
| | | 4 | 91 | 10 | | | | 28 1451 | |

| | | | | | | | | | | | |
|-----------|---|----------|----|----------|-----|----------|-----|----------|------|----------|-----|
| | | | 5 | | 16 | | 9 | | 28 | 1451 | 60 |
| | | | 5 | | 22 | | 8 | | 28 | 1451 | 61 |
| | | | 5 | | 28 | | 8 | | 28 | 1451 | 62 |
| | | | 5 | | 91 | | 173 | | 28 | 1451 | 63 |
| | | | 12 | | 102 | | 4 | | 28 | 1451 | 64 |
| | | | 13 | | 3 | | 117 | | 28 | 1451 | 65 |
| | | | 14 | | 3 | | 1 | | 28 | 1451 | 66 |
| | | | 14 | | 102 | | 1 | | 28 | 1451 | 67 |
| | | | 15 | | 3 | | 59 | | 28 | 1451 | 68 |
| | | | 15 | | 102 | | 33 | | 28 | 1451 | 69 |
| | | | | | | | | | 28 | 1 | 0 |
| | | | | | | | | | 28 | 0 | 0 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 |
| 2.80000+ | 4 | 5.81326+ | 1 | 0 | 0 | 4 | 0 | 0 | 28 | 2151 | 72 |
| 2.80580+ | 4 | 6.80800+ | 1 | 0 | 0 | 1 | 0 | 0 | 28 | 2151 | 73 |
| 1.00000+ | 5 | 1.00000+ | 5 | 1 | 1 | 0 | 0 | 0 | 28 | 2151 | 74 |
| 0.00000+ | 0 | 7.50000+ | 1 | 0 | 0 | 2 | 0 | 0 | 28 | 2151 | 75 |
| 5.74371+ | 1 | 0.00000+ | 0 | 0 | 0 | 18 | 3 | 28 | 2151 | 76 | |
| -2.85000+ | 4 | 5.00000+ | 1 | 1,18190+ | 4 | 1,18170+ | 4 | 2,14000+ | 0 | 0.00000+ | 0 |
| 1.55000+ | 4 | 5.00000+ | 1 | 1,40210+ | 3 | 1,40000+ | 3 | 2,14000+ | 0 | 0.00000+ | 0 |
| 6.28000+ | 4 | 5.00000+ | 1 | 3,30210+ | 3 | 3,30000+ | 3 | 2,14000+ | 0 | 0.00000+ | 0 |
| 5.74371+ | 1 | 0.00000+ | 0 | | 1 | 0 | 72 | 12 | 28 | 2151 | 80 |
| 6.89000+ | 3 | 5.00000+ | 1 | 6,23000+ | 1 | 2,30000+ | 2 | 6,00000+ | 1 | 0.00000+ | 0 |
| 1.33000+ | 4 | 1,50000+ | 0 | 8,20000+ | 1 | 2,20000+ | 1 | 6,00000+ | 1 | 0.00000+ | 0 |
| 1.35000+ | 4 | 1,50000+ | 0 | 1,06000+ | 0 | 4,60000+ | 1 | 6,00000+ | 1 | 0.00000+ | 0 |
| 1.90000+ | 4 | 1,50000+ | 0 | 6,33000+ | 1 | 3,30000+ | 2 | 6,00000+ | 1 | 0.00000+ | 0 |
| 2.00000+ | 4 | 1,50000+ | 0 | 7,20000+ | 1 | 1,20000+ | 1 | 6,00000+ | 1 | 0.00000+ | 0 |
| 2,10000+ | 4 | 5,00000+ | 1 | 9,00000+ | 0 | 8,40000+ | 0 | 6,00000+ | 1 | 0.00000+ | 0 |
| 2.86000+ | 4 | 1,50000+ | 0 | 1,44000+ | 0 | 8,40000+ | 1 | 6,00000+ | 1 | 0.00000+ | 0 |
| 3.24000+ | 4 | 1,50000+ | 0 | 3,57000+ | 0 | 2,57000+ | 0 | 1,60000+ | 0 | 0.00000+ | 0 |
| 3,42000+ | 4 | 1,50000+ | 0 | 1,31000+ | 0 | 7,19000+ | 1 | 6,00000+ | 1 | 0.00000+ | 0 |
| 3,61000+ | 4 | 1,50000+ | 0 | 2,03000+ | 0 | 1,43000+ | 0 | 6,00000+ | 1 | 0.00000+ | 0 |
| 4,79000+ | 4 | 1,50000+ | 0 | 4,76000+ | 0 | 3,76000+ | 0 | 1,00000+ | 0 | 0.00000+ | 0 |
| 5,48000+ | 4 | 5,00000+ | 1 | 1,29000+ | 0 | 6,90000+ | 1 | 6,00000+ | 1 | 0,60000+ | 0 |
| 2,80600+ | 4 | 2,64700+ | 1 | 0 | 0 | 0 | 1 | 0 | 28 | 2151 | 93 |
| 1,00000+ | 5 | 1,00000+ | 5 | 1 | 1 | 1 | 0 | 0 | 28 | 2151 | 94 |
| 0,00000+ | 0 | 6,50000+ | 1 | 0 | 0 | 0 | 2 | 0 | 28 | 2151 | 95 |
| 5,94154+ | 1 | 0,00000+ | 0 | 0 | 0 | 0 | 36 | 6 | 28 | 2151 | 96 |
| 1,24300+ | 4 | 5,00000+ | 1 | 2,50210+ | 3 | 2,50000+ | 3 | 2,14000+ | 0 | 0,00000+ | 0 |
| 2,87000+ | 4 | 5,00000+ | 1 | 6,52140+ | 2 | 6,50000+ | 2 | 2,14000+ | 0 | 0,00000+ | 0 |
| 4,30800+ | 4 | 5,00000+ | 1 | 7,91400+ | 1 | 7,70000+ | 1 | 2,14000+ | 0 | 0,00000+ | 0 |
| 6,53000+ | 4 | 5,00000+ | 1 | 3,92430+ | 2 | 3,90000+ | 2 | 2,43000+ | 0 | 0,90000+ | 0 |
| 8,79000+ | 4 | 5,00000+ | 1 | 3,12140+ | 2 | 3,10000+ | 2 | 2,14000+ | 0 | 0,70000+ | 0 |
| 9,86000+ | 4 | 5,00000+ | 1 | 6,92140+ | 2 | 6,90000+ | 2 | 2,14000+ | 0 | 0,00000+ | 0 |
| 5,94154+ | 1 | 0,00000+ | 0 | | 1 | 0 | 84 | 14 | 28 | 2151 | 103 |
| 1,29200+ | 3 | 5,00000+ | 1 | 6,01000+ | 1 | 1,06000+ | 3 | 6,00000+ | 1 | 0,00000+ | 0 |
| 2,25700+ | 3 | 1,50000+ | 0 | 6,34000+ | 1 | 3,40000+ | 2 | 6,00000+ | 1 | 0,00000+ | 0 |
| 5,93000+ | 3 | 1,50000+ | 0 | 6,28000+ | 1 | 2,80000+ | 2 | 6,00000+ | 1 | 0,00000+ | 0 |
| 2,38000+ | 4 | 1,50000+ | 0 | 1,96000+ | 0 | 7,00000+ | 1 | 1,20000+ | 0 | 0,00000+ | 0 |
| 3,01000+ | 4 | 1,50000+ | 0 | 8,20000+ | 1 | 2,20000+ | 1 | 6,00000+ | 1 | 0,00000+ | 0 |
| 3,29000+ | 4 | 1,50000+ | 0 | 8,40000+ | 1 | 2,40000+ | 1 | 6,00000+ | 1 | 0,00000+ | 0 |
| 3,33000+ | 4 | 5,00000+ | 1 | 9,00000+ | 1 | 3,00000+ | 1 | 6,00000+ | 1 | 0,00000+ | 0 |
| 3,94000+ | 4 | 1,50000+ | 0 | 1,27000+ | 0 | 2,70000+ | 1 | 1,00000+ | 0 | 0,00000+ | 0 |
| 4,74000+ | 4 | 1,50000+ | 0 | 1,90000+ | 0 | 7,00000+ | 1 | 1,20000+ | 0 | 0,00000+ | 0 |
| 4,96000+ | 4 | 5,00000+ | 1 | 1,05000+ | 0 | 4,50000+ | 1 | 6,00000+ | 1 | 0,00000+ | 0 |
| 5,15000+ | 4 | 1,50000+ | 0 | 9,60000+ | 1 | 3,60000+ | 1 | 6,00000+ | 1 | 0,00000+ | 0 |
| 5,63000+ | 4 | 5,00000+ | 1 | 1,66000+ | 0 | 1,06000+ | 0 | 6,00000+ | 1 | 0,00000+ | 0 |
| 5,69000+ | 4 | 1,50000+ | 0 | 9,20000+ | 1 | 3,20000+ | 1 | 6,00000+ | 1 | 0,00000+ | 0 |
| 7,13000+ | 4 | 1,50000+ | 0 | 6,90000+ | 1 | 2,90000+ | 1 | 6,00000+ | 1 | 0,00000+ | 0 |
| 2,80620+ | 4 | 3,97000+ | 2 | | 0 | 0 | 1 | 0 | 28 | 2151 | 118 |
| 1,00000+ | 5 | 1,00000+ | 5 | 1 | 1 | 0 | 0 | 0 | 28 | 2151 | 119 |

| | | | | | | | | | | | |
|----------|---|----------|----|----------|------|----------|----|----------|----|----------|---|
| 0.00000+ | 0 | 6.50000- | 1 | 0 | 0 | 0 | 2 | 0 | 28 | 2151 | 1 |
| 6.13958+ | 1 | 0.00000+ | 0 | 0 | 0 | 24 | 4 | 0 | 28 | 2151 | 1 |
| 4.60000+ | 3 | 5.00000- | 1 | 1.70210+ | 3 | 1.70000+ | 3 | 2.14000+ | 0 | 0.00000+ | 0 |
| 3.85000+ | 4 | 5.00000- | 1 | 2.52140+ | 2 | 2.50000+ | 2 | 2.14000+ | 0 | 0.00000+ | 0 |
| 5.38000+ | 4 | 5.00000- | 1 | 1.02140+ | 2 | 1.00000+ | 2 | 2.14000+ | 0 | 0.00000+ | 0 |
| 9.35000+ | 4 | 5.00000- | 1 | 2.25210+ | 3 | 2.25000+ | 3 | 2.14000+ | 0 | 0.00000+ | 0 |
| 6.13958+ | 1 | 0.00000+ | 0 | 0 | 1 | 0 | 6 | 1 | 28 | 2151 | 1 |
| 7.60000+ | 4 | 5.00000- | 1 | 1.75600+ | 2 | 1.75000+ | 2 | 6.00000- | 1 | 0.00000+ | 0 |
| 2.60640+ | 4 | 1.48000- | 2 | 0 | 0 | 0 | 1 | 0 | 28 | 2151 | 1 |
| 1.00000- | 5 | 1.00000+ | 5 | 1 | 1 | 0 | 0 | 0 | 28 | 2151 | 1 |
| 0.00000+ | 0 | 7.50000- | 1 | 0 | 0 | 0 | 2 | 0 | 28 | 2151 | 1 |
| 6.33782+ | 1 | 0.00000+ | 0 | 0 | 0 | 12 | 2 | 2 | 28 | 2151 | 1 |
| 1.38000+ | 4 | 5.00000- | 1 | 8.02140+ | 2 | 8.00000+ | 2 | 2.14000+ | 0 | 0.00000+ | 0 |
| 3.32000+ | 4 | 5.00000- | 1 | 9.52140+ | 2 | 9.50000+ | 2 | 2.14000+ | 0 | 0.00000+ | 0 |
| 6.33782+ | 1 | 0.00000+ | 0 | 0 | 1 | 0 | 6 | 1 | 28 | 2151 | 1 |
| 9.52000+ | 3 | 1.50000+ | 0 | 7.18000+ | 0 | 6.18000+ | 0 | 1.00000+ | 0 | 0.00000+ | 0 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 0 | 0 |
| 2.80000+ | 4 | 5.81826+ | 1 | 0 | 0 | 99 | 0 | 0 | 28 | 3 | 1 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0 | 0 | 0 | 3 | 2526 | 28 | 3 | 1 |
| | 4 | 5 | 36 | 3 | 2526 | 2 | 28 | 3 | 1 | 1 | |
| 1.00000- | 5 | 1.54136+ | 2 | 1.00000- | 4 | 5.40526+ | 1 | 1.00000- | 3 | 2.24026+ | 1 |
| 1.00000- | 2 | 1.23943+ | 1 | 2.53050- | 2 | 1.06757+ | 1 | 3.36743- | 2 | 1.02879+ | 1 |
| 4.48205- | 2 | 9.95200+ | 0 | 5.96561- | 2 | 9.66070+ | 0 | 7.94022- | 2 | 9.40820+ | 0 |
| 1.05684- | 1 | 9.18930+ | 0 | 1.40666- | 1 | 8.99970+ | 0 | 1.87226- | 1 | 8.83510+ | 0 |
| 2.49196- | 1 | 8.69263+ | 0 | 3.31683- | 1 | 8.56901+ | 0 | 4.41470- | 0 | 8.46184+ | 0 |
| 5.87596- | 1 | 8.36884+ | 0 | 7.82091- | 1 | 8.28820+ | 0 | 1.04096+ | 0 | 8.21827+ | 0 |
| 1.38552+ | 0 | 8.15744+ | 0 | 1.84413+ | 0 | 8.10475+ | 0 | 2.45454+ | 0 | 8.05875+ | 0 |
| 3.20699+ | 0 | 8.01859+ | 0 | 4.34836+ | 0 | 7.96347+ | 0 | 5.78767+ | 0 | 7.95240+ | 0 |
| 7.70338+ | 0 | 7.92497+ | 0 | 1.02532+ | 1 | 7.90035+ | 0 | 1.36470+ | 1 | 7.87770+ | 0 |
| 1.81642+ | 1 | 7.65670+ | 0 | 2.41765+ | 1 | 7.83644+ | 0 | 3.21789+ | 1 | 7.81620+ | 0 |
| 4.28302+ | 1 | 7.79503+ | 0 | 5.76070+ | 1 | 7.77190+ | 0 | 7.58763+ | 1 | 7.74574+ | 0 |
| 1.00991+ | 2 | 7.71446+ | 0 | 1.22199+ | 2 | 7.69007+ | 0 | 1.62648+ | 2 | 7.64579+ | 0 |
| 2.16484+ | 2 | 7.58965+ | 0 | 2.86140+ | 2 | 7.51756+ | 0 | 3.63514+ | 2 | 7.42403+ | 0 |
| 5.10458+ | 2 | 7.39238+ | 0 | 6.17654+ | 2 | 7.20132+ | 0 | 8.22097+ | 2 | 7.81173+ | 0 |
| 9.94738+ | 2 | 6.85466+ | 0 | 1.29104+ | 3 | 6.59076+ | 0 | 1.29134+ | 3 | 6.59026+ | 0 |
| 1.29155+ | 3 | 6.59050+ | 0 | 1.29179+ | 3 | 6.58961+ | 0 | 1.29186+ | 3 | 6.58965+ | 0 |
| 1.29201+ | 3 | 6.58936+ | 0 | 1.29214+ | 3 | 6.58942+ | 0 | 1.29230+ | 3 | 6.58906+ | 0 |
| 1.29245+ | 3 | 6.58948+ | 0 | 1.29266+ | 3 | 6.58907+ | 0 | 1.29342+ | 3 | 6.58875+ | 0 |
| 1.76224+ | 3 | 6.18560+ | 0 | 2.25226+ | 3 | 5.78245+ | 0 | 2.25378+ | 3 | 5.78113+ | 0 |
| 2.25480+ | 3 | 5.78006+ | 0 | 2.25551+ | 3 | 5.77865+ | 0 | 2.25598+ | 3 | 5.77703+ | 0 |
| 2.25631+ | 3 | 5.77058+ | 0 | 2.25653+ | 3 | 5.76245+ | 0 | 2.25668+ | 3 | 5.77730+ | 0 |
| 2.25685+ | 3 | 5.76200+ | 0 | 2.25701+ | 3 | 5.75590+ | 0 | 2.25715+ | 3 | 5.77940+ | 0 |
| 2.25732+ | 3 | 5.77210+ | 0 | 2.25747+ | 3 | 5.75970+ | 0 | 2.25769+ | 3 | 5.75716+ | 0 |
| 2.25802+ | 3 | 5.77387+ | 0 | 2.25849+ | 3 | 5.77515+ | 0 | 2.25919+ | 3 | 5.77565+ | 0 |
| 2.26022+ | 3 | 5.77543+ | 0 | 2.27907+ | 3 | 5.76065+ | 0 | 2.34554+ | 3 | 5.76741+ | 0 |
| 3.43410+ | 3 | 4.82657+ | 0 | 3.77751+ | 3 | 4.47216+ | 0 | 4.01358+ | 3 | 4.17074+ | 0 |
| 4.20081+ | 3 | 3.91428+ | 0 | 4.57079+ | 3 | 3.51196+ | 0 | 5.02787+ | 3 | 3.98576+ | 0 |
| 5.52782+ | 3 | 2.52671+ | 0 | 5.52852+ | 3 | 2.52570+ | 0 | 5.52899+ | 3 | 2.52597+ | 0 |
| 5.52931+ | 3 | 2.52513+ | 0 | 5.52953+ | 3 | 2.52425+ | 0 | 5.52978+ | 3 | 2.51204+ | 0 |
| 5.52985+ | 3 | 2.51297+ | 0 | 5.53001+ | 3 | 2.51620+ | 0 | 5.53015+ | 3 | 2.50879+ | 0 |
| 5.53032+ | 3 | 2.52069+ | 0 | 5.53047+ | 3 | 2.52025+ | 0 | 5.53069+ | 3 | 2.52103+ | 0 |
| 5.53101+ | 3 | 2.52197+ | 0 | 5.53143+ | 3 | 2.52129+ | 0 | 5.53218+ | 3 | 2.52111+ | 0 |
| 5.54488+ | 3 | 2.50846+ | 0 | 5.86555+ | 3 | 2.19882+ | 0 | 6.88784+ | 3 | 1.35079+ | 0 |
| 6.88853+ | 3 | 1.36066+ | 0 | 6.88900+ | 3 | 1.36200+ | 0 | 6.88932+ | 3 | 1.36043+ | 0 |
| 6.88954+ | 3 | 1.36159+ | 0 | 6.88979+ | 3 | 1.37145+ | 0 | 6.88985+ | 3 | 1.36235+ | 0 |
| 6.89001+ | 3 | 1.36236+ | 0 | 6.89015+ | 3 | 1.35549+ | 0 | 6.89031+ | 3 | 1.35084+ | 0 |
| 6.89046+ | 3 | 1.35281+ | 0 | 6.89068+ | 3 | 1.35297+ | 0 | 6.89100+ | 3 | 1.35559+ | 0 |
| 6.89147+ | 3 | 1.35486+ | 0 | 6.89216+ | 3 | 1.35498+ | 0 | 6.90005+ | 3 | 1.34975+ | 0 |
| 8.09744+ | 3 | 4.08794- | 1 | 8.41520+ | 3 | 1.52974- | 1 | 8.61219+ | 3 | 7.50730- | 3 |

| | | | | | | | | | | | | | | | | | |
|----------|------------|----------|----------|------------|----------|----------|------------|----------|----------|------------|----|----------|---|-----|-----|---|-----|
| 8,70718+ | 3-2,56727- | 1 | 9,27616+ | 3-6,66960- | 1 | 9,51637+ | 3-8,67900- | 1 | 28 | 3 | 1 | 180 | | | | | |
| 9,52001+ | 3-8,91300- | 1 | 9,53692+ | 3-6,96280- | 1 | 9,55652+ | 3-9,06040- | 1 | 28 | 3 | 1 | 181 | | | | | |
| 9,79790+ | 3-1,11070+ | 0 | 1,00000+ | 4-1,27509+ | 0 | 1,05447+ | 4-1,79950+ | 0 | 28 | 3 | 1 | 182 | | | | | |
| 1,07777+ | 4-1,89340+ | 0 | 1,11636+ | 4-2,11620+ | 0 | 1,15680+ | 4-2,25070+ | 0 | 28 | 3 | 1 | 183 | | | | | |
| 1,19092+ | 4-2,33980+ | 0 | 1,21950+ | 4-2,50210+ | 0 | 1,32972+ | 4-3,55180+ | 0 | 28 | 3 | 1 | 184 | | | | | |
| 1,32981+ | 4-3,53900+ | 0 | 1,32997+ | 4-3,52120+ | 0 | 1,33013+ | 4-3,65320+ | 0 | 28 | 3 | 1 | 185 | | | | | |
| 1,33019+ | 4-3,64660+ | 0 | 1,33028+ | 4-3,62920+ | 0 | 1,33419+ | 4-3,62900+ | 0 | 28 | 3 | 1 | 186 | | | | | |
| 1,35963+ | 4-3,75810+ | 0 | 1,35975+ | 4-3,77510+ | 0 | 1,35983+ | 4-3,76960+ | 0 | 28 | 3 | 1 | 187 | | | | | |
| 1,35997+ | 4-3,64570+ | 0 | 1,36012+ | 4-3,83700+ | 0 | 1,36017+ | 4-3,55780+ | 0 | 28 | 3 | 1 | 188 | | | | | |
| 1,36025+ | 4-3,84120+ | 0 | 1,36037+ | 4-3,83590+ | 0 | 1,36964+ | 4-3,89560+ | 0 | 28 | 3 | 1 | 189 | | | | | |
| 1,39381+ | 4-4,19220+ | 0 | 1,43964+ | 4-4,45960+ | 0 | 1,44575+ | 4-4,47290+ | 0 | 28 | 3 | 1 | 190 | | | | | |
| 1,46761+ | 4-4,35390+ | 0 | 1,47904+ | 4-4,13470+ | 0 | 1,50000+ | 4-3,24522+ | 0 | 28 | 3 | 1 | 191 | | | | | |
| 1,57169+ | 4-3,17519+ | 0 | 1,51000+ | 4-2,77279+ | 0 | 1,51712+ | 4-2,42990+ | 0 | 28 | 3 | 1 | 192 | | | | | |
| 1,55000+ | 4-1,55000+ | 0 | 1,56998+ | 4-1,49600+ | 0 | 1,58288+ | 4-1,19600+ | 0 | 28 | 3 | 1 | 193 | | | | | |
| 1,59431+ | 4-6,10000- | 1 | 1,64448+ | 4 | 9,36400- | 1 | 1,65425+ | 4 | 1,11200+ | 0 | 28 | 3 | 1 | 194 | | | |
| 1,70315+ | 4 | 1,44730+ | 0 | 1,73576+ | 4 | 1,42340+ | 0 | 1,78804+ | 4 | 1,25480+ | 0 | 28 | 3 | 1 | 195 | | |
| 1,86050+ | 4 | 9,40500+ | 1 | 1,89968+ | 4 | 8,82500- | 1 | 1,89978+ | 4 | 8,83600- | 1 | 28 | 3 | 1 | 196 | | |
| 1,89997+ | 4 | 6,82390- | 1 | 1,90015+ | 4 | 8,70900- | 1 | 1,90022+ | 4 | 8,72800- | 1 | 28 | 3 | 1 | 197 | | |
| 1,90102+ | 4 | 8,74900- | 1 | 1,97943+ | 4 | 6,53400- | 1 | 1,99946+ | 4 | 6,10300- | 1 | 28 | 3 | 1 | 198 | | |
| 1,99963+ | 4 | 6,13000- | 1 | 1,99975+ | 4 | 6,17300- | 1 | 1,99983+ | 4 | 6,24600- | 1 | 28 | 3 | 1 | 199 | | |
| 1,99997+ | 4 | 6,21390- | 1 | 2,00012+ | 4 | 5,75100- | 1 | 2,00017+ | 4 | 5,89700- | 1 | 28 | 3 | 1 | 200 | | |
| 2,00025+ | 4 | 5,86000- | 1 | 2,00037+ | 4 | 5,90600- | 1 | 2,00251+ | 4 | 5,94200- | 1 | 28 | 3 | 1 | 201 | | |
| 2,03552+ | 4 | 5,19000- | 1 | 2,07868+ | 4 | 4,26700- | 1 | 2,09549+ | 4 | 4,00200- | 1 | 28 | 3 | 1 | 202 | | |
| 2,10027+ | 4 | 3,95300- | 1 | 2,10327+ | 4 | 3,97000- | 1 | 2,10542+ | 4 | 4,33600- | 1 | 28 | 3 | 1 | 203 | | |
| 2,10688+ | 4 | 4,16400- | 1 | 2,10788+ | 4 | 4,37000- | 1 | 2,10856+ | 4 | 4,68700- | 1 | 28 | 3 | 1 | 204 | | |
| 2,10933+ | 4 | 5,39400- | 1 | 2,10954+ | 4 | 6,10100- | 1 | 2,10969+ | 4 | 5,59800- | 1 | 28 | 3 | 1 | 205 | | |
| 2,10979+ | 4 | 5,15900- | 1 | 2,11000+ | 4 | 3,95400- | 1 | 2,11021+ | 4 | 2,94300- | 1 | 28 | 3 | 1 | 206 | | |
| 2,11031+ | 4 | 2,62000- | 1 | 2,11067+ | 4 | 2,41200- | 1 | 2,11098+ | 4 | 2,50500- | 1 | 28 | 3 | 1 | 207 | | |
| 2,11144+ | 4 | 2,78000- | 1 | 2,11212+ | 4 | 2,95800- | 1 | 2,11312+ | 4 | 3,11400- | 1 | 28 | 3 | 1 | 208 | | |
| 2,11458+ | 4 | 3,21800- | 1 | 2,11673+ | 4 | 3,27100- | 1 | 2,11988+ | 4 | 3,27500- | 1 | 28 | 3 | 1 | 209 | | |
| 2,13132+ | 4 | 3,13600- | 1 | 2,26326+ | 4 | 9,14000- | 2 | 2,31029+ | 4 | 1,58000- | 2 | 28 | 3 | 1 | 210 | | |
| 2,37694+ | 4-8,99000- | 2 | 2,37791+ | 4-9,06000- | 2 | 2,37858+ | 4-9,04000- | 2 | 2,37858+ | 4-9,04000- | 2 | 28 | 3 | 1 | 211 | | |
| 2,37903+ | 4-4,92000- | 2 | 2,37934+ | 4-6,70000- | 2 | 2,37955+ | 4-8,35000- | 2 | 2,37955+ | 4-8,35000- | 2 | 28 | 3 | 1 | 212 | | |
| 2,37969+ | 4-7,86000- | 2 | 2,37979+ | 4-6,86000- | 2 | 2,37985+ | 4-7,20000- | 2 | 2,37985+ | 4-7,20000- | 2 | 28 | 3 | 1 | 213 | | |
| 2,37990+ | 4-7,54000- | 2 | 2,37997+ | 4-9,78100- | 2 | 2,38004+ | 4-1,01400- | 1 | 2,38004+ | 4-1,01400- | 1 | 28 | 3 | 1 | 214 | | |
| 2,38014+ | 4-1,34100- | 1 | 2,38021+ | 4-1,15800- | 1 | 2,38030+ | 4-1,14700- | 1 | 2,38030+ | 4-1,14700- | 1 | 28 | 3 | 1 | 215 | | |
| 2,38045+ | 4-1,10100- | 1 | 2,38066+ | 4-1,06700- | 1 | 2,38097+ | 4-1,04400- | 1 | 2,38097+ | 4-1,04400- | 1 | 28 | 3 | 1 | 216 | | |
| 2,38209+ | 4-1,03100- | 1 | 2,38306+ | 4-1,03000- | 1 | 2,38450+ | 4-1,58600- | 1 | 2,38450+ | 4-1,58600- | 1 | 28 | 3 | 1 | 217 | | |
| 2,50000+ | 4-3,16169- | 1 | 2,54132+ | 4-3,98369- | 1 | 2,59780+ | 4-5,50011- | 1 | 2,59780+ | 4-5,50011- | 1 | 28 | 3 | 1 | 218 | | |
| 2,65768+ | 4-7,62700- | 1 | 2,65842+ | 4-7,59564- | 1 | 2,65892+ | 4-7,52462- | 1 | 2,65892+ | 4-7,52462- | 1 | 28 | 3 | 1 | 219 | | |
| 2,65927+ | 4-7,39010- | 1 | 2,65950+ | 4-7,16701- | 1 | 2,65966+ | 4-7,01270- | 1 | 2,65966+ | 4-7,01270- | 1 | 28 | 3 | 1 | 220 | | |
| 2,65977+ | 4-6,57380- | 1 | 2,65984+ | 4-6,50350- | 1 | 2,65989+ | 4-5,89200- | 1 | 2,65989+ | 4-5,89200- | 1 | 28 | 3 | 1 | 221 | | |
| 2,65997+ | 4-5,51385- | 1 | 2,66005+ | 4-6,96900- | 1 | 2,66010+ | 4-5,44181- | 1 | 2,66010+ | 4-5,44181- | 1 | 28 | 3 | 1 | 222 | | |
| 2,66016+ | 4-9,91270- | 1 | 2,66023+ | 4-9,13810- | 1 | 2,66034+ | 4-8,86100- | 1 | 2,66034+ | 4-8,86100- | 1 | 28 | 3 | 1 | 223 | | |
| 2,66050+ | 4-8,49538- | 1 | 2,66073+ | 4-8,32899- | 1 | 2,66108+ | 4-8,22254- | 1 | 2,66108+ | 4-8,22254- | 1 | 28 | 3 | 1 | 224 | | |
| 2,66158+ | 4-8,15162- | 1 | 2,66501+ | 4-8,18210- | 1 | 2,66736+ | 4-8,27003- | 1 | 2,66736+ | 4-8,27003- | 1 | 28 | 3 | 1 | 225 | | |
| 2,67362+ | 4-8,58271- | 1 | 2,71628+ | 4-1,13666+ | 0 | 2,76536+ | 4-1,69450+ | 0 | 2,76536+ | 4-1,69450+ | 0 | 28 | 3 | 1 | 226 | | |
| 2,79877+ | 4-2,34405+ | 0 | 2,82151+ | 4-2,86558+ | 0 | 2,83699+ | 4-2,94005+ | 0 | 2,83699+ | 4-2,94005+ | 0 | 28 | 3 | 1 | 227 | | |
| 2,84753+ | 4-2,56845+ | 0 | 2,85471+ | 4-2,11391+ | 0 | 2,87000+ | 4-1,56713+ | 0 | 2,87000+ | 4-1,56713+ | 0 | 28 | 3 | 1 | 228 | | |
| 2,88529+ | 4-1,36500+ | 0 | 2,90301+ | 4-3,68404- | 1 | 2,91849+ | 4 | 2,27826- | 1 | 2,91849+ | 4 | 2,27826- | 1 | 28 | 3 | 1 | 229 |
| 2,94123+ | 4 | 5,60171- | 1 | 2,97464+ | 4 | 6,31585- | 1 | 2,99030+ | 4 | 5,99626- | 1 | 28 | 3 | 1 | 230 | | |
| 3,00939+ | 4 | 5,51526- | 1 | 3,00972+ | 4 | 5,54177- | 1 | 3,00981+ | 4 | 5,55086- | 1 | 28 | 3 | 1 | 231 | | |
| 3,00997+ | 4 | 5,51339- | 1 | 3,01013+ | 4 | 5,38370- | 1 | 3,01019+ | 4 | 5,33886- | 1 | 28 | 3 | 1 | 232 | | |
| 3,01028+ | 4 | 5,38680- | 1 | 3,01061+ | 4 | 5,40827- | 1 | 3,01090+ | 4 | 5,41715- | 1 | 28 | 3 | 1 | 233 | | |
| 3,01132+ | 4 | 5,41225- | 1 | 3,08927+ | 4 | 3,35265- | 1 | 3,09557+ | 4 | 3,20768- | 1 | 28 | 3 | 1 | 234 | | |
| 3,16722+ | 4 | 1,74380- | 1 | 3,20174+ | 4 | 1,12483- | 1 | 3,21600+ | 4 | 8,44870- | 2 | 28 | 3 | 1 | 235 | | |
| 3,22175+ | 4 | 7,95900- | 2 | 3,22757+ | 4 | 7,19950- | 2 | 3,23154+ | 4 | 6,92010- | 2 | 28 | 3 | 1 | 236 | | |
| 3,23424+ | 4 | 7,04070- | 2 | 3,23608+ | 4 | 7,60350- | 2 | 3,23733+ | 4 | 6,65760- | 2 | 28 | 3 | 1 | 237 | | |
| 3,23818+ | 4 | 1,03827- | 1 | 3,23676+ | 4 | 1,29427- | 1 | 3,23916+ | 4 | 1,63182- | 1 | 28 | 3 | 1 | 238 | | |
| 3,23943+ | 4 | 2,21820- | 1 | 3,23961+ | 4 | 2,80530- | 1 | 3,23973+ | 4 | 2,78230- | 1 | 28 | 3 | 1 | 239 | | |

| | | | | | | | | | | | | | | | |
|----------|---|-----------|---|----------|---|-----------|---|----------|---|-----------|---|----|---|---|-----|
| 3.23983+ | 4 | 3,27846- | 1 | 3,23992+ | 4 | 3,77400- | 1 | 3,24000+ | 4 | 8,11000- | 2 | 28 | 3 | 1 | 240 |
| 3.24012+ | 4 | -2,01000- | 1 | 3,24326+ | 4 | -2,67120- | 1 | 3,24039+ | 4 | -1,66090- | 1 | 28 | 3 | 1 | 241 |
| 3.24057+ | 4 | -1,18140- | 1 | 3,24084+ | 4 | -8,23220- | 2 | 3,24124+ | 4 | -4,40030- | 2 | 28 | 3 | 1 | 242 |
| 3.24182+ | 4 | -1,87450- | 2 | 3,24267+ | 4 | -2,00900- | 3 | 3,24392+ | 4 | 8,23590- | 3 | 28 | 3 | 1 | 243 |
| 3.24576+ | 4 | 1,39149- | 2 | 5,24846+ | 4 | 1,54171- | 2 | 3,24921+ | 4 | 1,53170- | 2 | 28 | 3 | 1 | 244 |
| 3.25242+ | 4 | 1,32179- | 2 | 3,25825+ | 4 | 7,42409- | 3 | 3,27181+ | 4 | -5,55400- | 3 | 28 | 3 | 1 | 245 |
| 3.26720+ | 4 | -1,03340- | 2 | 3,26801+ | 4 | -1,04350- | 2 | 3,28864+ | 4 | -9,93400- | 3 | 28 | 3 | 1 | 246 |
| 3.28908+ | 4 | -9,05290- | 3 | 5,28937+ | 4 | -7,92600- | 3 | 3,28957+ | 4 | -6,50500- | 3 | 28 | 3 | 1 | 247 |
| 3.28971+ | 4 | -3,85400- | 3 | 3,26980+ | 4 | -9,01000- | 4 | 3,28997+ | 4 | 7,92200- | 3 | 28 | 3 | 1 | 248 |
| 3.29013+ | 4 | -2,40380- | 2 | 3,29020+ | 4 | -2,25070- | 2 | 3,29029+ | 4 | -1,68130- | 2 | 28 | 3 | 1 | 249 |
| 3.29043+ | 4 | -1,67950- | 2 | 3,29063+ | 4 | -1,46200- | 2 | 3,29092+ | 4 | -1,36500- | 2 | 28 | 3 | 1 | 250 |
| 3.29135+ | 4 | -1,27340- | 2 | 5,29199+ | 4 | -1,21350- | 2 | 3,29767+ | 4 | -9,64000- | 3 | 28 | 3 | 1 | 251 |
| 3.32000+ | 4 | -1,40780- | 2 | 3,32655+ | 4 | -2,09490- | 2 | 3,32901+ | 4 | -2,76540- | 2 | 28 | 3 | 1 | 252 |
| 3.32933+ | 4 | -1,98380- | 2 | 3,32954+ | 4 | -1,65540- | 2 | 3,32969+ | 4 | -1,53180- | 2 | 28 | 3 | 1 | 253 |
| 3.32979+ | 4 | -1,42630- | 2 | 3,32997+ | 4 | -1,90352- | 2 | 3,33014+ | 4 | -4,07890- | 2 | 28 | 3 | 1 | 254 |
| 3.33021+ | 4 | -3,41030- | 2 | 3,33031+ | 4 | -3,03730- | 2 | 3,33046+ | 4 | -2,86430- | 2 | 28 | 3 | 1 | 255 |
| 3.33067+ | 4 | -2,73410- | 2 | 3,33099+ | 4 | -2,66650- | 2 | 3,33145+ | 4 | -2,62650- | 2 | 28 | 3 | 1 | 256 |
| 3.34233+ | 4 | -2,92960- | 2 | 3,35734+ | 4 | -2,52920- | 2 | 3,36819+ | 4 | -2,07750- | 2 | 28 | 3 | 1 | 257 |
| 3.39079+ | 4 | -1,83450- | 2 | 3,41330+ | 4 | -2,30290- | 2 | 3,41544+ | 4 | -2,22380- | 2 | 28 | 3 | 1 | 258 |
| 3.41690+ | 4 | -2,04400- | 2 | 3,41789+ | 4 | -1,72770- | 2 | 3,41856+ | 4 | -1,22090- | 2 | 28 | 3 | 1 | 259 |
| 3.41902+ | 4 | -4,44900- | 3 | 3,41933+ | 4 | 6,52590- | 3 | 3,41955+ | 4 | 2,56780- | 2 | 28 | 3 | 1 | 260 |
| 3.41969+ | 4 | 5,09800- | 2 | 3,41979+ | 4 | 7,16500- | 2 | 3,41985+ | 4 | 6,27290- | 2 | 28 | 3 | 1 | 261 |
| 3.41990+ | 4 | 5,37700- | 2 | 3,41997+ | 4 | 3,16660- | 1 | 3,42005+ | 4 | -2,75500- | 1 | 28 | 3 | 1 | 262 |
| 3.42009+ | 4 | -2,26243- | 1 | 3,42014+ | 4 | -1,77120- | 1 | 3,42021+ | 4 | -1,42430- | 1 | 28 | 3 | 1 | 263 |
| 3.42031+ | 4 | -1,01960- | 1 | 3,42045+ | 4 | -8,04950- | 2 | 3,42067+ | 4 | -6,71280- | 2 | 28 | 3 | 1 | 264 |
| 3.42098+ | 4 | -5,51540- | 2 | 3,42144+ | 4 | -4,77130- | 2 | 3,42211+ | 4 | -4,26070- | 2 | 28 | 3 | 1 | 265 |
| 3.42310+ | 4 | -3,95380- | 2 | 3,42456+ | 4 | -3,78050- | 2 | 3,42260+ | 4 | -3,72950- | 2 | 28 | 3 | 1 | 266 |
| 3.42727+ | 4 | -6,39080- | 2 | 3,57320+ | 4 | -1,28915- | 1 | 3,58592+ | 4 | -1,36000- | 1 | 28 | 3 | 1 | 267 |
| 3.59962+ | 4 | -1,41502- | 1 | 5,60294+ | 4 | -1,41342- | 1 | 3,60519+ | 4 | -1,39431- | 1 | 28 | 3 | 1 | 268 |
| 3.60673+ | 4 | -1,35552- | 1 | 5,60777+ | 4 | -1,29102- | 1 | 3,60848+ | 4 | -1,19281- | 1 | 28 | 3 | 1 | 269 |
| 3.60897+ | 4 | -1,04127- | 1 | 3,60930+ | 4 | -8,27670- | 2 | 3,60952+ | 4 | -5,82500- | 2 | 28 | 3 | 1 | 270 |
| 3.60967+ | 4 | -2,53000- | 3 | 3,60978+ | 4 | 5,91200- | 2 | 3,60985+ | 4 | 9,76200- | 2 | 28 | 3 | 1 | 271 |
| 3.60996+ | 4 | 1,96384- | 1 | 3,61007+ | 4 | -3,25600- | 1 | 3,61015+ | 4 | -3,45040- | 1 | 28 | 3 | 1 | 272 |
| 3.61022+ | 4 | -3,03300- | 1 | 3,61033+ | 4 | -2,75080- | 1 | 3,61048+ | 4 | -2,54394- | 1 | 28 | 3 | 1 | 273 |
| 3.61070+ | 4 | -2,19546- | 1 | 3,61103+ | 4 | -1,98927- | 1 | 3,61152+ | 4 | -1,85134- | 1 | 28 | 3 | 1 | 274 |
| 3.61223+ | 4 | -1,75414- | 1 | 3,61327+ | 4 | -1,69183- | 1 | 3,61481+ | 4 | -1,65373- | 1 | 28 | 3 | 1 | 275 |
| 3.61706+ | 4 | -1,63456- | 1 | 3,62038+ | 4 | -1,63168- | 1 | 3,64970+ | 4 | -1,76328- | 1 | 28 | 3 | 1 | 276 |
| 3.72174+ | 4 | -2,13741- | 1 | 3,83724+ | 4 | -2,67363- | 1 | 3,93935+ | 4 | -3,12053- | 1 | 28 | 3 | 1 | 277 |
| 3.93956+ | 4 | -3,10105- | 1 | 3,93970+ | 4 | -3,06456- | 1 | 3,93980+ | 4 | -3,03087- | 1 | 28 | 3 | 1 | 278 |
| 3.93985+ | 4 | -3,07544- | 1 | 3,93991+ | 4 | -3,11960- | 1 | 3,94002+ | 4 | -3,29390- | 1 | 28 | 3 | 1 | 279 |
| 3.94014+ | 4 | -3,29450- | 1 | 3,94020+ | 4 | -3,28365- | 1 | 3,94030+ | 4 | -3,26547- | 1 | 28 | 3 | 1 | 280 |
| 3.94044+ | 4 | -3,22861- | 1 | 3,94205+ | 4 | -3,16773- | 1 | 4,03842+ | 4 | -3,58975- | 1 | 28 | 3 | 1 | 281 |
| 4.09283+ | 4 | -3,83541- | 1 | 4,12680+ | 4 | -4,00140- | 1 | 4,18037+ | 4 | -4,31214- | 1 | 28 | 3 | 1 | 282 |
| 4.22112+ | 4 | -4,65714- | 1 | 4,24886+ | 4 | -5,06636- | 1 | 4,26774+ | 4 | -5,61349- | 1 | 28 | 3 | 1 | 283 |
| 4.28060+ | 4 | -6,39408- | 1 | 4,28935+ | 4 | -7,52534- | 1 | 4,29530+ | 4 | -9,09455- | 1 | 28 | 3 | 1 | 284 |
| 4.29936+ | 4 | -1,09813+ | 0 | 4,30212+ | 4 | -1,25883+ | 0 | 4,30399+ | 4 | -1,30418+ | 0 | 28 | 3 | 1 | 285 |
| 4.30527+ | 4 | -1,22271+ | 0 | 4,30614+ | 4 | -1,11133+ | 0 | 4,30800+ | 4 | -9,51876- | 1 | 28 | 3 | 1 | 286 |
| 4.30986+ | 4 | -8,89608- | 1 | 4,31073+ | 4 | -7,73740- | 1 | 4,31388+ | 4 | -3,70451- | 1 | 28 | 3 | 1 | 287 |
| 4.31664+ | 4 | -2,43394- | 1 | 4,32070+ | 4 | -2,12976- | 1 | 4,32665+ | 4 | -2,38332- | 1 | 28 | 3 | 1 | 288 |
| 4.33540+ | 4 | -2,82229- | 1 | 4,34826+ | 4 | -3,26122- | 1 | 4,36714+ | 4 | -3,64312- | 1 | 28 | 3 | 1 | 289 |
| 4.39488+ | 4 | -3,96957- | 1 | 4,43563+ | 4 | -4,25433- | 1 | 4,49549+ | 4 | -4,55856- | 1 | 28 | 3 | 1 | 290 |
| 4.60023+ | 4 | -4,94090- | 1 | 4,73903+ | 4 | -5,25853- | 1 | 4,73955+ | 4 | -5,17243- | 1 | 28 | 3 | 1 | 291 |
| 4.73970+ | 4 | -5,10351- | 1 | 4,73979+ | 4 | -4,96650- | 1 | 4,73985+ | 4 | -5,00446- | 1 | 28 | 3 | 1 | 292 |
| 4.73990+ | 4 | -5,04230- | 1 | 4,73997+ | 4 | -5,34574- | 1 | 4,74004+ | 4 | -5,40740- | 1 | 28 | 3 | 1 | 293 |
| 4.74014+ | 4 | -5,83550- | 1 | 4,74021+ | 4 | -5,59130- | 1 | 4,74030+ | 4 | -5,57709- | 1 | 28 | 3 | 1 | 294 |
| 4.74045+ | 4 | -5,51095- | 1 | 4,74142+ | 4 | -5,39985- | 1 | 4,74450+ | 4 | -5,36845- | 1 | 28 | 3 | 1 | 295 |
| 4.77872+ | 4 | -5,34107- | 1 | 4,78232+ | 4 | -5,28372- | 1 | 4,78477+ | 4 | -5,19181- | 1 | 28 | 3 | 1 | 296 |
| 4.78644+ | 4 | -5,05230- | 1 | 4,78758+ | 4 | -4,84623- | 1 | 4,78835+ | 4 | -4,54664- | 1 | 28 | 3 | 1 | 297 |
| 4.78888+ | 4 | -4,11702- | 1 | 4,78924+ | 4 | -3,50520- | 1 | 4,78948+ | 4 | -2,81990- | 1 | 28 | 3 | 1 | 298 |
| 4.78965+ | 4 | -2,12280- | 1 | 4,78984+ | 4 | -1,97680- | 1 | 4,78989+ | 4 | -1,91100- | 1 | 28 | 3 | 1 | 299 |

| | | | | | | | | | | | | |
|----------|-------------|---|----------|------------|---|----------|------------|---|----|---|---|-----|
| 4,79000+ | 4-5,14000- | 1 | 4,79011+ | 4-7,21600- | 1 | 4,79016+ | 4-8,37420- | 1 | 28 | 3 | 1 | 300 |
| 4,79035+ | 4-8,41810- | 1 | 4,79052+ | 4-7,95420- | 1 | 4,79076+ | 4-7,35450- | 1 | 28 | 3 | 1 | 301 |
| 4,79112+ | 4-6,36686- | 1 | 4,79165+ | 4-6,46694- | 1 | 4,79242+ | 4-6,17585- | 1 | 28 | 3 | 1 | 302 |
| 4,79356+ | 4-5,97190- | 1 | 4,79523+ | 4-5,83421- | 1 | 4,79768+ | 4-5,74364- | 1 | 28 | 3 | 1 | 303 |
| 4,80057+ | 4-5,65594- | 1 | 4,81434+ | 4-5,64587- | 1 | 4,95947+ | 4-5,49082- | 1 | 28 | 3 | 1 | 304 |
| 4,95964+ | 4-5,85527- | 1 | 4,95975+ | 4-5,82268- | 1 | 4,95983+ | 4-5,76116- | 1 | 28 | 3 | 1 | 305 |
| 4,95997+ | 4-5,81613- | 1 | 4,96011+ | 4-6,20865- | 1 | 4,96017+ | 4-6,21164- | 1 | 28 | 3 | 1 | 306 |
| 4,96025+ | 4-6,13292- | 1 | 4,96036+ | 4-6,07208- | 1 | 4,96053+ | 4-6,04206- | 1 | 28 | 3 | 1 | 307 |
| 4,96115+ | 4-6,00329- | 1 | 4,96169+ | 4-5,99363- | 1 | 5,14951+ | 4-5,88914- | 1 | 28 | 3 | 1 | 308 |
| 5,14967+ | 4-5,85577- | 1 | 5,14977+ | 4-5,81071- | 1 | 5,14996+ | 4-5,65681- | 1 | 28 | 3 | 1 | 309 |
| 5,15015+ | 4-6,22176- | 1 | 5,15023+ | 4-6,15722- | 1 | 5,15033+ | 4-6,09738- | 1 | 28 | 3 | 1 | 310 |
| 5,15049+ | 4-6,05467- | 1 | 5,15105+ | 4-6,00794- | 1 | 5,15155+ | 4-5,99533- | 1 | 28 | 3 | 1 | 311 |
| 5,30367+ | 4-5,54757- | 1 | 5,34463+ | 4-5,74452- | 1 | 5,35592+ | 4-5,66531- | 1 | 28 | 3 | 1 | 312 |
| 5,36361+ | 4-5,55995- | 1 | 5,37241+ | 4-5,33925- | 1 | 5,37483+ | 4-5,31701- | 1 | 28 | 3 | 1 | 313 |
| 5,37761+ | 4-5,45018- | 1 | 5,38000+ | 4-5,56508- | 1 | 5,38240+ | 4-5,59538- | 1 | 28 | 3 | 1 | 314 |
| 5,38759+ | 4-5,74997- | 1 | 5,39116+ | 4-6,03299- | 1 | 5,47792+ | 4-5,80996- | 1 | 28 | 3 | 1 | 315 |
| 5,47904+ | 4-5,71152- | 1 | 5,47934+ | 4-5,62773- | 1 | 5,47955+ | 4-5,50116- | 1 | 28 | 3 | 1 | 316 |
| 5,47970+ | 4-5,33680- | 1 | 5,47979+ | 4-5,10923- | 1 | 5,47985+ | 4-4,91230- | 1 | 28 | 3 | 1 | 317 |
| 5,47990+ | 4-4,51680- | 1 | 5,47997+ | 4-5,04733- | 1 | 5,48004+ | 4-7,97310- | 1 | 28 | 3 | 1 | 318 |
| 5,48014+ | 4-6,85173- | 1 | 5,48021+ | 4-6,65012- | 1 | 5,48030+ | 4-6,44247- | 1 | 28 | 3 | 1 | 319 |
| 5,48045+ | 4-6,25890- | 1 | 5,48066+ | 4-6,15724- | 1 | 5,48142+ | 4-6,01524- | 1 | 28 | 3 | 1 | 320 |
| 5,48306+ | 4-5,94786- | 1 | 5,50164+ | 4-5,88571- | 1 | 5,62876+ | 4-5,74383- | 1 | 28 | 3 | 1 | 321 |
| 5,62942+ | 4-5,65396- | 1 | 5,62961+ | 4-5,58784- | 1 | 5,62973+ | 4-5,50754- | 1 | 28 | 3 | 1 | 322 |
| 5,62982+ | 4-5,43185- | 1 | 5,62997+ | 4-5,57373- | 1 | 5,63012+ | 4-6,47717- | 1 | 28 | 3 | 1 | 323 |
| 5,63018+ | 4-6,30651- | 1 | 5,63027+ | 4-6,17671- | 1 | 5,63039+ | 4-6,07062- | 1 | 28 | 3 | 1 | 324 |
| 5,63057+ | 4-5,99149- | 1 | 5,63084+ | 4-5,94050- | 1 | 5,63268+ | 4-5,85924- | 1 | 28 | 3 | 1 | 325 |
| 5,68953+ | 4-5,72660- | 1 | 5,68968+ | 4-5,66652- | 1 | 5,68978+ | 4-5,63616- | 1 | 28 | 3 | 1 | 326 |
| 5,68997+ | 4-5,68414- | 1 | 5,69015+ | 4-6,00914- | 1 | 5,69022+ | 4-5,97124- | 1 | 28 | 3 | 1 | 327 |
| 5,69032+ | 4-5,91982- | 1 | 5,69047+ | 4-5,88690- | 1 | 5,69148+ | 4-5,83143- | 1 | 28 | 3 | 1 | 328 |
| 5,91933+ | 4-5,68070- | 1 | 5,92931+ | 4-5,53576- | 1 | 6,03448+ | 4-5,37760- | 1 | 28 | 3 | 1 | 329 |
| 6,11287+ | 4-4,80862- | 1 | 6,16623+ | 4-4,14266- | 1 | 6,20206+ | 4-3,61256- | 1 | 28 | 3 | 1 | 330 |
| 6,23674+ | 4-3,15793- | 1 | 6,28000+ | 4-2,72734- | 1 | 6,33037+ | 4-2,29043- | 1 | 28 | 3 | 1 | 331 |
| 6,39411+ | 4-1,68420- | 1 | 6,43750+ | 4-1,22426- | 1 | 6,46703+ | 4-7,24786- | 2 | 28 | 3 | 1 | 332 |
| 6,48714+ | 4-1,42185- | 2 | 6,50082+ | 4 3,63075- | 2 | 6,51014+ | 4 5,26477- | 2 | 28 | 3 | 1 | 333 |
| 6,52080+ | 4-4,001630- | 3 | 6,52552+ | 4-4,26654- | 2 | 6,53000+ | 4-5,69638- | 2 | 28 | 3 | 1 | 334 |
| 6,53920+ | 4-6,69390- | 2 | 6,54986+ | 4-1,70046- | 1 | 6,55918+ | 4-2,47297- | 1 | 28 | 3 | 1 | 335 |
| 6,57286+ | 4-2,99466- | 1 | 6,59297+ | 4-3,19408- | 1 | 6,62250+ | 4-3,21266- | 1 | 28 | 3 | 1 | 336 |
| 6,73752+ | 4-3,18707- | 1 | 6,80984+ | 4-3,21019- | 1 | 7,05836+ | 4-3,26154- | 1 | 28 | 3 | 1 | 337 |
| 7,12902+ | 4-3,21871- | 1 | 7,12955+ | 4-3,17344- | 1 | 7,12969+ | 4-3,13838- | 1 | 28 | 3 | 1 | 338 |
| 7,12979+ | 4-3,07902- | 1 | 7,12997+ | 4-3,14743- | 1 | 7,13014+ | 4-3,49283- | 1 | 28 | 3 | 1 | 339 |
| 7,13021+ | 4-3,42967- | 1 | 7,13031+ | 4-3,38238- | 1 | 7,13045+ | 4-3,34145- | 1 | 28 | 3 | 1 | 340 |
| 7,13143+ | 4-3,28468- | 1 | 7,16288+ | 4-3,25397- | 1 | 7,53919+ | 4-3,08572- | 1 | 28 | 3 | 1 | 341 |
| 7,58694+ | 4-2,98788- | 1 | 7,59395+ | 4-3,00126- | 1 | 7,59588+ | 4-3,02660- | 1 | 28 | 3 | 1 | 342 |
| 7,60000+ | 4-3,10087- | 1 | 7,60889+ | 4-3,16012- | 1 | 7,70343+ | 4-3,03110- | 1 | 28 | 3 | 1 | 343 |
| 7,95977+ | 4-2,79878- | 1 | 7,97576+ | 4-2,78210- | 1 | 8,20436+ | 4-2,48024- | 1 | 28 | 3 | 1 | 344 |
| 8,32579+ | 4-2,24826- | 1 | 8,38283+ | 4-2,10443- | 1 | 8,54122+ | 4-1,36557- | 1 | 28 | 3 | 1 | 345 |
| 8,57014+ | 4-1,07738- | 1 | 8,59191+ | 4-7,68720- | 2 | 8,62642+ | 4 6,21000- | 3 | 28 | 3 | 1 | 346 |
| 8,64992+ | 4 1,19282- | 2 | 8,66591+ | 4 2,55617- | 1 | 8,67679+ | 4 3,77910- | 1 | 28 | 3 | 1 | 347 |
| 8,68420+ | 4 4,29027- | 1 | 8,68925+ | 4 3,96350- | 1 | 8,69268+ | 4 3,30945- | 1 | 28 | 3 | 1 | 348 |
| 8,70000+ | 4 2,23482- | 1 | 8,70732+ | 4 2,16109- | 1 | 8,71075+ | 4 1,42156- | 1 | 28 | 3 | 1 | 349 |
| 8,72321+ | 4-1,36507- | 1 | 8,73409+ | 4-3,03435- | 1 | 8,74765+ | 4-3,38302- | 1 | 28 | 3 | 1 | 350 |
| 8,75008+ | 4-3,39341- | 1 | 8,77358+ | 4-3,25367- | 1 | 8,80809+ | 4-2,91575- | 1 | 28 | 3 | 1 | 351 |
| 8,85978+ | 4-2,51524- | 1 | 8,87642+ | 4-2,39818- | 1 | 8,94029+ | 4-2,01638- | 1 | 28 | 3 | 1 | 352 |
| 9,04267+ | 4-1,42516- | 1 | 9,10401+ | 4-1,02102- | 1 | 9,18804+ | 4-4,05020- | 2 | 28 | 3 | 1 | 353 |
| 9,20339+ | 4-3,01530- | 2 | 9,27241+ | 4-1,20440- | 2 | 9,29718+ | 4-2,38410- | 2 | 28 | 3 | 1 | 354 |
| 9,34277+ | 4-4,16720- | 2 | 9,35000+ | 4-3,97170- | 2 | 9,40282+ | 4-2,07720- | 2 | 28 | 3 | 1 | 355 |
| 9,42759+ | 4-3,93950- | 2 | 9,50792+ | 4-1,28912- | 1 | 9,51745+ | 4-1,34501- | 1 | 28 | 3 | 1 | 356 |
| 9,59735+ | 4-1,35779- | 1 | 9,59985+ | 4-1,34730- | 1 | 9,65067+ | 4-1,00203- | 1 | 28 | 3 | 1 | 357 |
| 9,69685+ | 4-4,28300- | 2 | 9,74694+ | 4 7,52170- | 2 | 9,75550+ | 4 9,68090- | 2 | 28 | 3 | 1 | 358 |
| 9,78440+ | 4 2,19528- | 1 | 9,80854+ | 4 3,53682- | 1 | 9,82497+ | 4 4,19508- | 1 | 28 | 3 | 1 | 359 |

| | | | | | | | | | | | | | | | |
|----------|----|----------|----|----------|----|----------|----|----------|----|----------|----|----|---|---|-----|
| 9,83615+ | 4 | 3,99957- | 1 | 9,84377+ | 4 | 3,42867- | 1 | 9,86000+ | 4 | 2,45653- | 1 | 28 | 3 | 1 | 360 |
| 9,87623+ | 4 | 2,53461- | 1 | 9,88086+ | 4 | 2,17998- | 1 | 9,89503+ | 4 | 3,48410- | 2 | 28 | 3 | 1 | 361 |
| 9,90506+ | 4 | 8,82580- | 2 | 9,91146+ | 4 | 1,49093- | 1 | 9,93560+ | 4 | 2,75606- | 1 | 28 | 3 | 1 | 362 |
| 9,95111+ | 4 | 3,05112- | 1 | 9,97106+ | 4 | 3,16949- | 1 | 1,00000+ | 5 | 3,00276- | 1 | 28 | 3 | 1 | 363 |
| .10000E | 06 | .60000E | 01 | .10100E | 06 | .58500E | 01 | .10200E | 06 | .49500E | 01 | 28 | 3 | 1 | 364 |
| .10370E | 06 | .39699E | 01 | .10400E | 06 | .36200E | 01 | .10600E | 06 | .32000E | 01 | 28 | 3 | 1 | 365 |
| .10650E | 06 | .30700E | 01 | .10670E | 06 | .30560E | 01 | .10700E | 06 | .30400E | 01 | 28 | 3 | 1 | 366 |
| .10720E | 06 | .42790E | 01 | .10870E | 06 | .13572E | 02 | .10910E | 06 | .16050E | 02 | 28 | 3 | 1 | 367 |
| .11000E | 06 | .17300E | 02 | .11010E | 06 | .16080E | 02 | .11070E | 06 | .12827E | 02 | 28 | 3 | 1 | 368 |
| .11100E | 06 | .11200E | 02 | .11170E | 06 | .85400E | 01 | .11200E | 06 | .74000E | 01 | 28 | 3 | 1 | 369 |
| .11300E | 06 | .63600E | 01 | .11400E | 06 | .58000E | 01 | .11470E | 06 | .54850E | 01 | 28 | 3 | 1 | 370 |
| .11570E | 06 | .50350E | 01 | .11600E | 06 | .49000E | 01 | .11670E | 06 | .46025E | 01 | 28 | 3 | 1 | 371 |
| .11800E | 06 | .40500E | 01 | .12000E | 06 | .36000E | 01 | .12020E | 06 | .35490E | 01 | 28 | 3 | 1 | 372 |
| .12120E | 06 | .32800E | 01 | .12200E | 06 | .30800E | 01 | .12300E | 06 | .30900E | 01 | 28 | 3 | 1 | 373 |
| .12320E | 06 | .32120E | 01 | .12400E | 06 | .37000E | 01 | .12420E | 06 | .39600E | 01 | 28 | 3 | 1 | 374 |
| .12500E | 06 | .50000E | 01 | .12520E | 06 | .54000E | 01 | .12550E | 06 | .60000E | 01 | 28 | 3 | 1 | 375 |
| .12600E | 06 | .50500E | 01 | .12700E | 06 | .40800E | 01 | .12720E | 06 | .39947E | 01 | 28 | 3 | 1 | 376 |
| .12820E | 06 | .35680E | 01 | .13000E | 06 | .28000E | 01 | .13020E | 06 | .27433E | 01 | 28 | 3 | 1 | 377 |
| .13120E | 06 | .24600E | 01 | .13300E | 06 | .19500E | 01 | .13320E | 06 | .19500E | 01 | 28 | 3 | 1 | 378 |
| .13500E | 06 | .19500E | 01 | .13520E | 06 | .19920E | 01 | .13600E | 06 | .21600E | 01 | 28 | 3 | 1 | 379 |
| .13620E | 06 | .23240E | 01 | .13720E | 06 | .31440E | 01 | .13800E | 06 | .38000E | 01 | 28 | 3 | 1 | 380 |
| .13820E | 06 | .41000E | 01 | .13970E | 06 | .63500E | 01 | .14000E | 06 | .62000E | 01 | 28 | 3 | 1 | 381 |
| .14020E | 06 | .70020E | 01 | .14100E | 06 | .78100E | 01 | .14200E | 06 | .80000E | 01 | 28 | 3 | 1 | 382 |
| .14300E | 06 | .12600E | 02 | .14350E | 06 | .11600E | 02 | .14420E | 06 | .10480E | 02 | 28 | 3 | 1 | 383 |
| .14500E | 06 | .92000E | 01 | .14620E | 06 | .76400E | 01 | .14700E | 06 | .66000E | 01 | 28 | 3 | 1 | 384 |
| .14920E | 06 | .51333E | 01 | .15000E | 06 | .46000E | 01 | .15020E | 06 | .44933E | 01 | 28 | 3 | 1 | 385 |
| .15300E | 06 | .30000E | 01 | .15320E | 06 | .28800E | 01 | .15400E | 06 | .24000E | 01 | 28 | 3 | 1 | 386 |
| .15500E | 06 | .32000E | 01 | .15600E | 06 | .32000E | 01 | .15670E | 06 | .55100E | 01 | 28 | 3 | 1 | 387 |
| .15700E | 06 | .65000E | 01 | .15800E | 06 | .87000E | 01 | .15870E | 06 | .92600E | 01 | 28 | 3 | 1 | 388 |
| .15900E | 06 | .95000E | 01 | .16090E | 06 | .94000E | 01 | .16070E | 06 | .89800E | 01 | 28 | 3 | 1 | 389 |
| .16200E | 06 | .82000E | 01 | .16270E | 06 | .77800E | 01 | .16400E | 06 | .70000E | 01 | 28 | 3 | 1 | 390 |
| .16570E | 06 | .61500E | 01 | .16600E | 06 | .60000E | 01 | .16770E | 06 | .53285E | 01 | 28 | 3 | 1 | 391 |
| .16800E | 06 | .52100E | 01 | .16900E | 06 | .52000E | 01 | .17000E | 06 | .54800E | 01 | 28 | 3 | 1 | 392 |
| .17100E | 06 | .57600E | 01 | .17200E | 06 | .56000E | 01 | .17500E | 06 | .47800E | 01 | 28 | 3 | 1 | 393 |
| .18000E | 06 | .36000E | 01 | .18300E | 06 | .43670E | 01 | .18380E | 06 | .27850E | 01 | 28 | 3 | 1 | 394 |
| .18440E | 06 | .44780E | 01 | .18650E | 06 | .32570E | 01 | .18740E | 06 | .47680E | 01 | 28 | 3 | 1 | 395 |
| .18660E | 06 | .36140E | 01 | .19000E | 06 | .35533E | 01 | .19010E | 06 | .35490E | 01 | 28 | 3 | 1 | 396 |
| .19080E | 06 | .39520E | 01 | .19220E | 06 | .11600E | 02 | .19260E | 06 | .11770E | 02 | 28 | 3 | 1 | 397 |
| .19360E | 06 | .84840E | 01 | .19510E | 06 | .40450E | 01 | .19580E | 06 | .36060E | 01 | 28 | 3 | 1 | 398 |
| .19670E | 06 | .40870E | 01 | .19750E | 06 | .57060E | 01 | .19800E | 06 | .64660E | 01 | 28 | 3 | 1 | 399 |
| .19810E | 06 | .66160E | 01 | .19900E | 06 | .48460E | 01 | .20280E | 06 | .23610E | 01 | 28 | 3 | 1 | 400 |
| .20490E | 06 | .44840E | 01 | .20500E | 06 | .47929E | 01 | .20600E | 06 | .75823E | 01 | 28 | 3 | 1 | 401 |
| .20650E | 06 | .94270E | 01 | .20730E | 06 | .13510E | 02 | .20800E | 06 | .97060E | 01 | 28 | 3 | 1 | 402 |
| .20970E | 06 | .10320E | 02 | .21000E | 06 | .10271E | 02 | .21160E | 06 | .10610E | 02 | 28 | 3 | 1 | 403 |
| .21480E | 06 | .77140E | 01 | .21560E | 06 | .83060E | 01 | .21690E | 06 | .89224E | 01 | 28 | 3 | 1 | 404 |
| .21650E | 06 | .96930E | 01 | .21750E | 06 | .70220E | 01 | .21950E | 06 | .56610E | 01 | 28 | 3 | 1 | 405 |
| .22000E | 06 | .63652E | 01 | .22070E | 06 | .73510E | 01 | .22160E | 06 | .52840E | 01 | 28 | 3 | 1 | 406 |
| .22400E | 06 | .40210E | 01 | .22500E | 06 | .34947E | 01 | .22560E | 06 | .31790E | 01 | 28 | 3 | 1 | 407 |
| .22830E | 06 | .15190E | 01 | .23010E | 06 | .18420E | 01 | .23200E | 06 | .45134E | 01 | 28 | 3 | 1 | 408 |
| .23260E | 06 | .53570E | 01 | .23450E | 06 | .97480E | 01 | .23650E | 06 | .93880E | 01 | 28 | 3 | 1 | 409 |
| .24000E | 06 | .73409E | 01 | .24060E | 06 | .68730E | 01 | .24260E | 06 | .72850E | 01 | 28 | 3 | 1 | 410 |
| .24410E | 06 | .57160E | 01 | .24600E | 06 | .70540E | 01 | .24710E | 06 | .61480E | 01 | 28 | 3 | 1 | 411 |
| .24770E | 06 | .62810E | 01 | .25100E | 06 | .44260E | 01 | .25200E | 06 | .42722E | 01 | 28 | 3 | 1 | 412 |
| .25470E | 06 | .38570E | 01 | .25500E | 06 | .41976E | 01 | .25620E | 06 | .55600E | 01 | 28 | 3 | 1 | 413 |
| .25700E | 06 | .40380E | 01 | .25790E | 06 | .63690E | 01 | .25800E | 06 | .63937E | 01 | 28 | 3 | 1 | 414 |
| .25870E | 06 | .65670E | 01 | .26200E | 06 | .46970E | 01 | .26460E | 06 | .34120E | 01 | 28 | 3 | 1 | 415 |
| .26590E | 06 | .34010E | 01 | .26600E | 06 | .33394E | 01 | .26700E | 06 | .27230E | 01 | 28 | 3 | 1 | 416 |
| .26720E | 06 | .16790E | 01 | .26800E | 06 | .17050E | 01 | .26870E | 06 | .23200E | 01 | 28 | 3 | 1 | 417 |
| .26930E | 06 | .19690E | 01 | .27130E | 06 | .22980E | 01 | .27200E | 06 | .38993E | 01 | 28 | 3 | 1 | 418 |
| .27340E | 06 | .71020E | 01 | .27440E | 06 | .82640E | 01 | .27500E | 06 | .79165E | 01 | 28 | 3 | 1 | 419 |

| | | | | | | | | | | | | | | | |
|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|----|---|---|-----|
| .27540E | 06 | .75690E | 01 | .27600E | 06 | .73279E | 01 | .27750E | 06 | .64240E | 01 | 28 | 3 | 1 | 420 |
| .27820E | 06 | .80390E | 01 | .27890E | 06 | .53540E | 01 | .28080E | 06 | .21790E | 01 | 28 | 3 | 1 | 421 |
| .28160E | 06 | .71430E | 01 | .28290E | 06 | .94060E | 01 | .28400E | 06 | .75939E | 01 | 28 | 3 | 1 | 422 |
| .28410E | 06 | .74290E | 01 | .28730E | 06 | .59510E | 01 | .28930E | 06 | .78380E | 01 | 28 | 3 | 1 | 423 |
| .29040E | 06 | .59370E | 01 | .29170E | 06 | .55630E | 01 | .29200E | 06 | .55262E | 01 | 28 | 3 | 1 | 424 |
| .29560E | 06 | .50340E | 01 | .29600E | 06 | .50720E | 01 | .29800E | 06 | .50120E | 01 | 28 | 3 | 1 | 425 |
| .29840E | 06 | .56000E | 01 | .30000E | 06 | .46116E | 01 | .30130E | 06 | .22960E | 01 | 28 | 3 | 1 | 426 |
| .30200E | 06 | .41075E | 01 | .30270E | 06 | .39190E | 01 | .30400E | 06 | .22610E | 01 | 28 | 3 | 1 | 427 |
| .30500E | 06 | .31940E | 01 | .30580E | 06 | .64390E | 01 | .30680E | 06 | .65980E | 01 | 28 | 3 | 1 | 428 |
| .30880E | 06 | .47390E | 01 | .30980E | 06 | .38600E | 01 | .31060E | 06 | .45400E | 01 | 28 | 3 | 1 | 429 |
| .31140E | 06 | .40348E | 01 | .31240E | 06 | .43930E | 01 | .31400E | 06 | .35199E | 01 | 28 | 3 | 1 | 430 |
| .31450E | 06 | .32470E | 01 | .31500E | 06 | .32169E | 01 | .31530E | 06 | .32020E | 01 | 28 | 3 | 1 | 431 |
| .31720E | 06 | .49730E | 01 | .31860E | 06 | .42650E | 01 | .32120E | 06 | .29040E | 01 | 28 | 3 | 1 | 432 |
| .32350E | 06 | .13270E | 01 | .32480E | 06 | .17830E | 01 | .32610E | 06 | .56930E | 01 | 28 | 3 | 1 | 433 |
| .32660E | 06 | .67420E | 01 | .32770E | 06 | .75260E | 01 | .32850E | 06 | .62560E | 01 | 28 | 3 | 1 | 434 |
| .32900E | 06 | .76440E | 01 | .33000E | 06 | .66613E | 01 | .33120E | 06 | .54820E | 01 | 28 | 3 | 1 | 435 |
| .33300E | 06 | .47570E | 01 | .33370E | 06 | .50240E | 01 | .33460E | 06 | .74650E | 01 | 28 | 3 | 1 | 436 |
| .33590E | 06 | .49240E | 01 | .33710E | 06 | .36010E | 01 | .33820E | 06 | .40160E | 01 | 28 | 3 | 1 | 437 |
| .33940E | 06 | .48720E | 01 | .34170E | 06 | .48390E | 01 | .34290E | 06 | .56070E | 01 | 28 | 3 | 1 | 438 |
| .34470E | 06 | .44300E | 01 | .34590E | 06 | .40810E | 01 | .34600E | 06 | .39846E | 01 | 28 | 3 | 1 | 439 |
| .34740E | 06 | .26350E | 01 | .34880E | 06 | .26350E | 01 | .35000E | 06 | .64260E | 01 | 28 | 3 | 1 | 440 |
| .35390E | 06 | .51100E | 01 | .35610E | 06 | .39220E | 01 | .35710E | 06 | .49650E | 01 | 28 | 3 | 1 | 441 |
| .35790E | 06 | .69110E | 01 | .35860E | 06 | .60980E | 01 | .35960E | 06 | .81960E | 01 | 28 | 3 | 1 | 442 |
| .36000E | 06 | .73935E | 01 | .36120E | 06 | .49860E | 01 | .36220E | 06 | .41620E | 01 | 28 | 3 | 1 | 443 |
| .36450E | 06 | .42910E | 01 | .36650E | 06 | .33730E | 01 | .36840E | 06 | .35670E | 01 | 28 | 3 | 1 | 444 |
| .37000E | 06 | .34842E | 01 | .37130E | 06 | .34170E | 01 | .37200E | 06 | .32779E | 01 | 28 | 3 | 1 | 445 |
| .37450E | 06 | .27810E | 01 | .37550E | 06 | .24860E | 01 | .37740E | 06 | .41520E | 01 | 28 | 3 | 1 | 446 |
| .37850E | 06 | .53870E | 01 | .37990E | 06 | .49870E | 01 | .38000E | 06 | .49226E | 01 | 28 | 3 | 1 | 447 |
| .38180E | 06 | .37640E | 01 | .38260E | 06 | .29120E | 01 | .38400E | 06 | .43110E | 01 | 28 | 3 | 1 | 448 |
| .38620E | 06 | .30060E | 01 | .38790E | 06 | .31190E | 01 | .38930E | 06 | .28460E | 01 | 28 | 3 | 1 | 449 |
| .39110E | 06 | .34430E | 01 | .39220E | 06 | .25200E | 01 | .39450E | 06 | .27360E | 01 | 28 | 3 | 1 | 450 |
| .39540E | 06 | .49240E | 01 | .39630E | 06 | .41080E | 01 | .39740E | 06 | .55780E | 01 | 28 | 3 | 1 | 451 |
| .39890E | 06 | .31270E | 01 | .40000E | 06 | .28414E | 01 | .40190E | 06 | .23480E | 01 | 28 | 3 | 1 | 452 |
| .40580E | 06 | .19770E | 01 | .40880E | 06 | .14360E | 01 | .41000E | 06 | .19240E | 01 | 28 | 3 | 1 | 453 |
| .41160E | 06 | .10940E | 01 | .41400E | 06 | .15980E | 01 | .41620E | 06 | .37440E | 01 | 28 | 3 | 1 | 454 |
| .41750E | 06 | .33830E | 01 | .41910E | 06 | .46220E | 01 | .42030E | 06 | .42330E | 01 | 28 | 3 | 1 | 455 |
| .42160E | 06 | .17570E | 01 | .42290E | 06 | .16690E | 01 | .42550E | 06 | .51030E | 01 | 28 | 3 | 1 | 456 |
| .42680E | 06 | .60710E | 01 | .42740E | 06 | .36890E | 01 | .42780E | 06 | .31350E | 01 | 28 | 3 | 1 | 457 |
| .43280E | 06 | .51110E | 01 | .42940E | 06 | .62400E | 01 | .43000E | 06 | .59202E | 01 | 28 | 3 | 1 | 458 |
| .43870E | 06 | .55470E | 01 | .43140E | 06 | .52640E | 01 | .43300E | 06 | .55545E | 01 | 28 | 3 | 1 | 459 |
| .43400E | 06 | .57360E | 01 | .43500E | 06 | .71750E | 01 | .43640E | 06 | .64020E | 01 | 28 | 3 | 1 | 460 |
| .43740E | 06 | .53200E | 01 | .43840E | 06 | .63600E | 01 | .43940E | 06 | .60760E | 01 | 28 | 3 | 1 | 461 |
| .44010E | 06 | .52360E | 01 | .44180E | 06 | .44280E | 01 | .44250E | 06 | .47750E | 01 | 28 | 3 | 1 | 462 |
| .44390E | 06 | .44810E | 01 | .44560E | 06 | .42270E | 01 | .44770E | 06 | .42590E | 01 | 28 | 3 | 1 | 463 |
| .44950E | 06 | .49590E | 01 | .45000E | 06 | .48402E | 01 | .45160E | 06 | .44600E | 01 | 28 | 3 | 1 | 464 |
| .45270E | 06 | .30180E | 01 | .45370E | 06 | .20470E | 01 | .45440E | 06 | .22720E | 01 | 28 | 3 | 1 | 465 |
| .45660E | 06 | .61240E | 01 | .45730E | 06 | .60340E | 01 | .45840E | 06 | .51220E | 01 | 28 | 3 | 1 | 466 |
| .45910E | 06 | .60660E | 01 | .46060E | 06 | .45200E | 01 | .46130E | 06 | .27550E | 01 | 28 | 3 | 1 | 467 |
| .46210E | 06 | .33800E | 01 | .46320E | 06 | .59900E | 01 | .46460E | 06 | .53220E | 01 | 28 | 3 | 1 | 468 |
| .46650E | 06 | .45680E | 01 | .46870E | 06 | .45420E | 01 | .47020E | 06 | .35260E | 01 | 28 | 3 | 1 | 469 |
| .47100E | 06 | .44620E | 01 | .47210E | 06 | .44090E | 01 | .47400E | 06 | .39690E | 01 | 28 | 3 | 1 | 470 |
| .47630E | 06 | .52320E | 01 | .47830E | 06 | .34920E | 01 | .47940E | 06 | .36250E | 01 | 28 | 3 | 1 | 471 |
| .48100E | 06 | .36540E | 01 | .48300E | 06 | .29227E | 01 | .48490E | 06 | .27360E | 01 | 28 | 3 | 1 | 472 |
| .48570E | 06 | .28980E | 01 | .46730E | 06 | .42980E | 01 | .48810E | 06 | .40890E | 01 | 28 | 3 | 1 | 473 |
| .48970E | 06 | .29420E | 01 | .49210E | 06 | .41480E | 01 | .49330E | 06 | .38620E | 01 | 28 | 3 | 1 | 474 |
| .49490E | 06 | .17190E | 01 | .49570E | 06 | .21200E | 01 | .49660E | 06 | .48410E | 01 | 28 | 3 | 1 | 475 |
| .49820E | 06 | .45150E | 01 | .49900E | 06 | .49510E | 01 | .49980E | 06 | .49820E | 01 | 28 | 3 | 1 | 476 |
| .50010E | 06 | .42300E | 01 | .50160E | 06 | .43400E | 01 | .50250E | 06 | .43700E | 01 | 28 | 3 | 1 | 477 |
| .50340E | 06 | .48600E | 01 | .50400E | 06 | .40200E | 01 | .50540E | 06 | .30300E | 01 | 28 | 3 | 1 | 478 |
| .50630E | 06 | .29500E | 01 | .50720E | 06 | .31600E | 01 | .50790E | 06 | .51900E | 01 | 28 | 3 | 1 | 479 |

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|--------|-----|
| .50520E 06 | .54111E 01 | .50570E 06 | .54760E 01 | .50890E 06 | .57930E 01 | 28 3 1 | 480 |
| .50930E 06 | .46900E 01 | .50960E 06 | .44000E 01 | .51000E 06 | .45880E 01 | 28 3 1 | 481 |
| .51130E 06 | .48700E 01 | .51060E 06 | .50900E 01 | .51140E 06 | .48800E 01 | 28 3 1 | 482 |
| .51170E 06 | .46300E 01 | .51240E 06 | .49500E 01 | .51310E 06 | .59900E 01 | 28 3 1 | 483 |
| .51370E 06 | .45700E 01 | .51470E 06 | .36800E 01 | .51490E 06 | .35400E 01 | 28 3 1 | 484 |
| .51560E 06 | .39100E 01 | .51600E 06 | .45800E 01 | .51630E 06 | .41600E 01 | 28 3 1 | 485 |
| .51690E 06 | .37800E 01 | .51740E 06 | .34200E 01 | .51860E 06 | .38500E 01 | 28 3 1 | 486 |
| .51850E 06 | .30500E 01 | .51720E 06 | .25600E 01 | .51980E 06 | .24300E 01 | 28 3 1 | 487 |
| .52050E 06 | .24600E 01 | .52140E 06 | .25700E 01 | .52210E 06 | .22200E 01 | 28 3 1 | 488 |
| .52250E 06 | .23600E 01 | .52320E 06 | .34500E 01 | .52360E 06 | .50500E 01 | 28 3 1 | 489 |
| .52430E 06 | .54900E 01 | .52490E 06 | .48600E 01 | .52540E 06 | .40500E 01 | 28 3 1 | 490 |
| .52630E 06 | .34900E 01 | .52690E 06 | .34900E 01 | .52760E 06 | .42500E 01 | 28 3 1 | 491 |
| .52780E 06 | .47500E 01 | .52840E 06 | .48700E 01 | .52910E 06 | .47600E 01 | 28 3 1 | 492 |
| .52990E 06 | .52100E 01 | .53000E 06 | .51593E 01 | .53130E 06 | .45800E 01 | 28 3 1 | 493 |
| .53210E 06 | .41500E 01 | .53300E 06 | .39657E 01 | .53420E 06 | .37200E 01 | 28 3 1 | 494 |
| .53660E 06 | .34900E 01 | .53720E 06 | .35300E 01 | .53760E 06 | .38700E 01 | 28 3 1 | 495 |
| .53850E 06 | .36900E 01 | .53970E 06 | .31300E 01 | .54020E 06 | .28400E 01 | 28 3 1 | 496 |
| .54080E 06 | .30200E 01 | .54120E 06 | .39900E 01 | .54160E 06 | .46600E 01 | 28 3 1 | 497 |
| .54250E 06 | .39500E 01 | .54350E 06 | .34900E 01 | .54490E 06 | .31600E 01 | 28 3 1 | 498 |
| .54700E 06 | .27300E 01 | .54900E 06 | .25100E 01 | .54980E 06 | .24100E 01 | 28 3 1 | 499 |
| .55070E 06 | .20800E 01 | .55130E 06 | .21000E 01 | .55250E 06 | .24800E 01 | 28 3 1 | 500 |
| .55310E 06 | .30100E 01 | .55370E 06 | .40400E 01 | .55410E 06 | .48300E 01 | 28 3 1 | 501 |
| .55470E 06 | .52000E 01 | .55510E 06 | .45100E 01 | .55590E 06 | .34700E 01 | 28 3 1 | 502 |
| .55650E 06 | .29600E 01 | .55730E 06 | .24000E 01 | .55810E 06 | .19700E 01 | 28 3 1 | 503 |
| .55670E 06 | .19600E 01 | .55910E 06 | .25400E 01 | .55950E 06 | .34000E 01 | 28 3 1 | 504 |
| .55990E 06 | .41400E 01 | .56030E 06 | .43000E 01 | .56090E 06 | .31600E 01 | 28 3 1 | 505 |
| .56150E 06 | .24400E 01 | .56260E 06 | .18600E 01 | .56360E 06 | .17300E 01 | 28 3 1 | 506 |
| .56460E 06 | .17300E 01 | .56580E 06 | .16800E 01 | .56710E 06 | .25500E 01 | 28 3 1 | 507 |
| .56770E 06 | .31100E 01 | .56890E 06 | .35200E 01 | .56950E 06 | .38700E 01 | 28 3 1 | 508 |
| .57040E 06 | .40600E 01 | .57250E 06 | .44000E 01 | .57310E 06 | .45900E 01 | 28 3 1 | 509 |
| .57370E 06 | .46700E 01 | .57430E 06 | .45500E 01 | .57500E 06 | .50500E 01 | 28 3 1 | 510 |
| .57540E 06 | .57500E 01 | .57560E 06 | .59100E 01 | .57600E 06 | .51700E 01 | 28 3 1 | 511 |
| .57670E 06 | .45800E 01 | .57780E 06 | .43850E 01 | .57730E 06 | .41900E 01 | 28 3 1 | 512 |
| .57790E 06 | .41000E 01 | .57840E 06 | .41800E 01 | .57900E 06 | .36700E 01 | 28 3 1 | 513 |
| .58010E 06 | .32200E 01 | .58070E 06 | .30100E 01 | .58130E 06 | .30700E 01 | 28 3 1 | 514 |
| .58220E 06 | .35100E 01 | .58310E 06 | .30200E 01 | .58390E 06 | .25200E 01 | 28 3 1 | 515 |
| .58460E 06 | .25900E 01 | .58500E 06 | .26600E 01 | .58560E 06 | .22900E 01 | 28 3 1 | 516 |
| .58610E 06 | .19000E 01 | .58670E 06 | .19800E 01 | .58740E 06 | .22600E 01 | 28 3 1 | 517 |
| .58800E 06 | .19300E 01 | .58870E 06 | .23900E 01 | .58930E 06 | .33800E 01 | 28 3 1 | 518 |
| .59000E 06 | .40900E 01 | .59040E 06 | .41500E 01 | .59110E 06 | .34200E 01 | 28 3 1 | 519 |
| .59150E 06 | .35800E 01 | .59240E 06 | .26100E 01 | .59330E 06 | .21100E 01 | 28 3 1 | 520 |
| .59420E 06 | .18700E 01 | .59460E 06 | .18200E 01 | .59530E 06 | .20600E 01 | 28 3 1 | 521 |
| .59550E 06 | .21100E 01 | .59590E 06 | .21800E 01 | .59660E 06 | .21200E 01 | 28 3 1 | 522 |
| .59730E 06 | .19000E 01 | .59790E 06 | .13300E 01 | .59880E 06 | .14600E 01 | 28 3 1 | 523 |
| .60000E 06 | .18900E 01 | .60060E 06 | .25700E 01 | .60110E 06 | .33900E 01 | 28 3 1 | 524 |
| .60130E 06 | .36000E 01 | .60180E 06 | .31800E 01 | .60220E 06 | .30600E 01 | 28 3 1 | 525 |
| .60310E 06 | .39000E 01 | .60380E 06 | .49500E 01 | .60420E 06 | .52200E 01 | 28 3 1 | 526 |
| .60510E 06 | .42900E 01 | .60560E 06 | .41500E 01 | .60610E 06 | .46800E 01 | 28 3 1 | 527 |
| .60650E 06 | .52900E 01 | .60700E 06 | .54600E 01 | .60720E 06 | .59100E 01 | 28 3 1 | 528 |
| .60770E 06 | .54100E 01 | .60810E 06 | .51400E 01 | .60860E 06 | .52200E 01 | 28 3 1 | 529 |
| .60900E 06 | .55700E 01 | .60930E 06 | .58000E 01 | .60970E 06 | .54800E 01 | 28 3 1 | 530 |
| .61060E 06 | .59900E 01 | .61160E 06 | .50100E 01 | .61340E 06 | .39800E 01 | 28 3 1 | 531 |
| .61480E 06 | .33000E 01 | .61600E 06 | .31900E 01 | .61780E 06 | .33200E 01 | 28 3 1 | 532 |
| .61880E 06 | .37100E 01 | .61770E 06 | .42700E 01 | .62070E 06 | .46700E 01 | 28 3 1 | 533 |
| .62110E 06 | .46400E 01 | .62180E 06 | .40700E 01 | .62250E 06 | .31600E 01 | 28 3 1 | 534 |
| .62330E 06 | .29400E 01 | .62420E 06 | .32000E 01 | .62490E 06 | .35000E 01 | 28 3 1 | 535 |
| .62540E 06 | .34300E 01 | .62590E 06 | .36800E 01 | .62640E 06 | .48400E 01 | 28 3 1 | 536 |
| .62680E 06 | .54200E 01 | .62780E 06 | .39800E 01 | .62850E 06 | .31200E 01 | 28 3 1 | 537 |
| .62900E 06 | .27771E 01 | .62920E 06 | .26400E 01 | .63000E 06 | .23600E 01 | 28 3 1 | 538 |
| .63070E 06 | .29700E 01 | .63120E 06 | .34100E 01 | .63190E 06 | .41600E 01 | 28 3 1 | 539 |

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|--------|-----|
| .63210E 06 | .44100E 01 | .63290E 06 | .39500E 01 | .63340E 06 | .32300E 01 | 28 3 1 | 540 |
| .63360E 06 | .28300E 01 | .63430E 06 | .29800E 01 | .63480E 06 | .32000E 01 | 28 3 1 | 541 |
| .63530E 06 | .34800E 01 | .63580E 06 | .30800E 01 | .63660E 06 | .32300E 01 | 28 3 1 | 542 |
| .63750E 06 | .31000E 01 | .63820E 06 | .37900E 01 | .63950E 06 | .49800E 01 | 28 3 1 | 543 |
| .64000E 06 | .52600E 01 | .64050E 06 | .49300E 01 | .64170E 06 | .46700E 01 | 28 3 1 | 544 |
| .64320E 06 | .46300E 01 | .64520E 06 | .46400E 01 | .64590E 06 | .42500E 01 | 28 3 1 | 545 |
| .64720E 06 | .35900E 01 | .64820E 06 | .38600E 01 | .64900E 06 | .45200E 01 | 28 3 1 | 546 |
| .64950E 06 | .53900E 01 | .65000E 06 | .57900E 01 | .65020E 06 | .59500E 01 | 28 3 1 | 547 |
| .65120E 06 | .49900E 01 | .65200E 06 | .39900E 01 | .65280E 06 | .35900E 01 | 28 3 1 | 548 |
| .65380E 06 | .37900E 01 | .65430E 06 | .42700E 01 | .65450E 06 | .44700E 01 | 28 3 1 | 549 |
| .65560E 06 | .35800E 01 | .65610E 06 | .30600E 01 | .65740E 06 | .20500E 01 | 28 3 1 | 550 |
| .65840E 06 | .19900E 01 | .65920E 06 | .22500E 01 | .65970E 06 | .29300E 01 | 28 3 1 | 551 |
| .66020E 06 | .38900E 01 | .66070E 06 | .48600E 01 | .66120E 06 | .48000E 01 | 28 3 1 | 552 |
| .66230E 06 | .36700E 01 | .66310E 06 | .32300E 01 | .66380E 06 | .29700E 01 | 28 3 1 | 553 |
| .66440E 06 | .30600E 01 | .66510E 06 | .34000E 01 | .66590E 06 | .25800E 01 | 28 3 1 | 554 |
| .66670E 06 | .21100E 01 | .66750E 06 | .24400E 01 | .66800E 06 | .20600E 01 | 28 3 1 | 555 |
| .66880E 06 | .21000E 01 | .66940E 06 | .26200E 01 | .67000E 06 | .36475E 01 | 28 3 1 | 556 |
| .67020E 06 | .39900E 01 | .67070E 06 | .43100E 01 | .67120E 06 | .39200E 01 | 28 3 1 | 557 |
| .67170E 06 | .41500E 01 | .67250E 06 | .46000E 01 | .67350E 06 | .46100E 01 | 28 3 1 | 558 |
| .67410E 06 | .46500E 01 | .67490E 06 | .50900E 01 | .67570E 06 | .47700E 01 | 28 3 1 | 559 |
| .67650E 06 | .47800E 01 | .67740E 06 | .44400E 01 | .67820E 06 | .37400E 01 | 28 3 1 | 560 |
| .67870E 06 | .34400E 01 | .67950E 06 | .35600E 01 | .68000E 06 | .37736E 01 | 28 3 1 | 561 |
| .68060E 06 | .40300E 01 | .68170E 06 | .40400E 01 | .68250E 06 | .38700E 01 | 28 3 1 | 562 |
| .68330E 06 | .41900E 01 | .68410E 06 | .43200E 01 | .68520E 06 | .40100E 01 | 28 3 1 | 563 |
| .68600E 06 | .39800E 01 | .68690E 06 | .39200E 01 | .68770E 06 | .36000E 01 | 28 3 1 | 564 |
| .68850E 06 | .34200E 01 | .68930E 06 | .38800E 01 | .68990E 06 | .43400E 01 | 28 3 1 | 565 |
| .69000E 06 | .44617E 01 | .69050E 06 | .50700E 01 | .69130E 06 | .43600E 01 | 28 3 1 | 566 |
| .69180E 06 | .40500E 01 | .69240E 06 | .40100E 01 | .69300E 06 | .40800E 01 | 28 3 1 | 567 |
| .69380E 06 | .29200E 01 | .69430E 06 | .25600E 01 | .69490E 06 | .27500E 01 | 28 3 1 | 568 |
| .69570E 06 | .37500E 01 | .69600E 06 | .40200E 01 | .69660E 06 | .33000E 01 | 28 3 1 | 569 |
| .69740E 06 | .22100E 01 | .69800E 06 | .20200E 01 | .69860E 06 | .19600E 01 | 28 3 1 | 570 |
| .69910E 06 | .29000E 01 | .69970E 06 | .37500E 01 | .70000E 06 | .39300E 01 | 28 3 1 | 571 |
| .70080E 06 | .43600E 01 | .70170E 06 | .48700E 01 | .70250E 06 | .52700E 01 | 28 3 1 | 572 |
| .70310E 06 | .51400E 01 | .70450E 06 | .37000E 01 | .70540E 06 | .35100E 01 | 28 3 1 | 573 |
| .70620E 06 | .40100E 01 | .70680E 06 | .47500E 01 | .70770E 06 | .45400E 01 | 28 3 1 | 574 |
| .70910E 06 | .31000E 01 | .70970E 06 | .27600E 01 | .71030E 06 | .27400E 01 | 28 3 1 | 575 |
| .71080E 06 | .26700E 01 | .71140E 06 | .23700E 01 | .71200E 06 | .28300E 01 | 28 3 1 | 576 |
| .71310E 06 | .30700E 01 | .71370E 06 | .29900E 01 | .71460E 06 | .29500E 01 | 28 3 1 | 577 |
| .71610E 06 | .22300E 01 | .71720E 06 | .17800E 01 | .71870E 06 | .18600E 01 | 28 3 1 | 578 |
| .71960E 06 | .23500E 01 | .72080E 06 | .32200E 01 | .72140E 06 | .34700E 01 | 28 3 1 | 579 |
| .72190E 06 | .35500E 01 | .72280E 06 | .34900E 01 | .72430E 06 | .29000E 01 | 28 3 1 | 580 |
| .72520E 06 | .28200E 01 | .72670E 06 | .31400E 01 | .72730E 06 | .31900E 01 | 28 3 1 | 581 |
| .72880E 06 | .27500E 01 | .72900E 06 | .26750E 01 | .73000E 06 | .23800E 01 | 28 3 1 | 582 |
| .73060E 06 | .23000E 01 | .73120E 06 | .25700E 01 | .73180E 06 | .26900E 01 | 28 3 1 | 583 |
| .73240E 06 | .21500E 01 | .73300E 06 | .22600E 01 | .73360E 06 | .28500E 01 | 28 3 1 | 584 |
| .73420E 06 | .23300E 01 | .73520E 06 | .14500E 01 | .73640E 06 | .11600E 01 | 28 3 1 | 585 |
| .73730E 06 | .16100E 01 | .73790E 06 | .19500E 01 | .73910E 06 | .30300E 01 | 28 3 1 | 586 |
| .73970E 06 | .26700E 01 | .74030E 06 | .24600E 01 | .74100E 06 | .19500E 01 | 28 3 1 | 587 |
| .74160E 06 | .14800E 01 | .74220E 06 | .11900E 01 | .74280E 06 | .11400E 01 | 28 3 1 | 588 |
| .74340E 06 | .15000E 01 | .74440E 06 | .24200E 01 | .74500E 06 | .26400E 01 | 28 3 1 | 589 |
| .74530E 06 | .22400E 01 | .74590E 06 | .23900E 01 | .74680E 06 | .23700E 01 | 28 3 1 | 590 |
| .74810E 06 | .27900E 01 | .74870E 06 | .25500E 01 | .74900E 06 | .25900E 01 | 28 3 1 | 591 |
| .74930E 06 | .27000E 01 | .74970E 06 | .29400E 01 | .75000E 06 | .29250E 01 | 28 3 1 | 592 |
| .75030E 06 | .29100E 01 | .75120E 06 | .36100E 01 | .75150E 06 | .37300E 01 | 28 3 1 | 593 |
| .75190E 06 | .36200E 01 | .75310E 06 | .27000E 01 | .75370E 06 | .26500E 01 | 28 3 1 | 594 |
| .75440E 06 | .29800E 01 | .75600E 06 | .36400E 01 | .75720E 06 | .40600E 01 | 28 3 1 | 595 |
| .75760E 06 | .39300E 01 | .75910E 06 | .42800E 01 | .76040E 06 | .47500E 01 | 28 3 1 | 596 |
| .76200E 06 | .44600E 01 | .76330E 06 | .37900E 01 | .76400E 06 | .38400E 01 | 28 3 1 | 597 |
| .76460E 06 | .35100E 01 | .76590E 06 | .23700E 01 | .76690E 06 | .18900E 01 | 28 3 1 | 598 |
| .76750E 06 | .17400E 01 | .76820E 06 | .18000E 01 | .76910E 06 | .27300E 01 | 28 3 1 | 599 |

| | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|----|---|---|-----|
| .70980E 06 | .31500E 01 | .77000E 06 | .34200E 01 | .77210E 06 | .34800E 01 | 28 | 3 | 1 | 600 |
| .77370E 06 | .35600E 01 | .77470E 06 | .39500E 01 | .77570E 06 | .46100E 01 | 28 | 3 | 1 | 601 |
| .77600E 06 | .41200E 01 | .77640E 06 | .38700E 01 | .77700E 06 | .34800E 01 | 28 | 3 | 1 | 602 |
| .77800E 06 | .33100E 01 | .77900E 06 | .30100E 01 | .78030E 06 | .29100E 01 | 28 | 3 | 1 | 603 |
| .78100E 06 | .27960E 01 | .78300E 06 | .24700E 01 | .78430E 06 | .27500E 01 | 28 | 3 | 1 | 604 |
| .78530E 06 | .33500E 01 | .78600E 06 | .35600E 01 | .78670E 06 | .34000E 01 | 28 | 3 | 1 | 605 |
| .78740E 06 | .32700E 01 | .78940E 06 | .35000E 01 | .79040E 06 | .43100E 01 | 28 | 3 | 1 | 606 |
| .79140E 06 | .47900E 01 | .79210E 06 | .47900E 01 | .79380E 06 | .35700E 01 | 28 | 3 | 1 | 607 |
| .79480E 06 | .30000E 01 | .79550E 06 | .21700E 01 | .79720E 06 | .21200E 01 | 28 | 3 | 1 | 608 |
| .79830E 06 | .23900E 01 | .79960E 06 | .36800E 01 | .80000E 06 | .42171E 01 | 28 | 3 | 1 | 609 |
| .80030E 06 | .44700E 01 | .80070E 06 | .46600E 01 | .80140E 06 | .41500E 01 | 28 | 3 | 1 | 610 |
| .80240E 06 | .37300E 01 | .80450E 06 | .35100E 01 | .80620E 06 | .34000E 01 | 28 | 3 | 1 | 611 |
| .80690E 06 | .34800E 01 | .80830E 06 | .35900E 01 | .80900E 06 | .36600E 01 | 28 | 3 | 1 | 612 |
| .81010E 06 | .35100E 01 | .81120E 06 | .34500E 01 | .81190E 06 | .32600E 01 | 28 | 3 | 1 | 613 |
| .81290E 06 | .34200E 01 | .81450E 06 | .35600E 01 | .81500E 06 | .25800E 01 | 28 | 3 | 1 | 614 |
| .81650E 06 | .19100E 01 | .81790E 06 | .12000E 01 | .81860E 06 | .13700E 01 | 28 | 3 | 1 | 615 |
| .81930E 06 | .16900E 01 | .82040E 06 | .24700E 01 | .82110E 06 | .32500E 01 | 28 | 3 | 1 | 616 |
| .82180E 06 | .37800E 01 | .82260E 06 | .39700E 01 | .82440E 06 | .42600E 01 | 28 | 3 | 1 | 617 |
| .82500E 06 | .37060E 01 | .82540E 06 | .34700E 01 | .82620E 06 | .31600E 01 | 28 | 3 | 1 | 618 |
| .82760E 06 | .37800E 01 | .82870E 06 | .43600E 01 | .83020E 06 | .44000E 01 | 28 | 3 | 1 | 619 |
| .83200E 06 | .42100E 01 | .83270E 06 | .37300E 01 | .83350E 06 | .38100E 01 | 28 | 3 | 1 | 620 |
| .83490E 06 | .37900E 01 | .83500E 06 | .33000E 01 | .83710E 06 | .37700E 01 | 28 | 3 | 1 | 621 |
| .83790E 06 | .40700E 01 | .83860E 06 | .35300E 01 | .83940E 06 | .28000E 01 | 28 | 3 | 1 | 622 |
| .84050E 06 | .31300E 01 | .84120E 06 | .35000E 01 | .84200E 06 | .35560E 01 | 28 | 3 | 1 | 623 |
| .84230E 06 | .33100E 01 | .84350E 06 | .29000E 01 | .84530E 06 | .36200E 01 | 28 | 3 | 1 | 624 |
| .84610E 06 | .33800E 01 | .84720E 06 | .37400E 01 | .84830E 06 | .45000E 01 | 28 | 3 | 1 | 625 |
| .84870E 06 | .46000E 01 | .84910E 06 | .44600E 01 | .85000E 06 | .33718E 01 | 28 | 3 | 1 | 626 |
| .85020E 06 | .31300E 01 | .85170E 06 | .29700E 01 | .85360E 06 | .30100E 01 | 28 | 3 | 1 | 627 |
| .85440E 06 | .33100E 01 | .85480E 06 | .33400E 01 | .85560E 06 | .31900E 01 | 28 | 3 | 1 | 628 |
| .85630E 06 | .27000E 01 | .85790E 06 | .23000E 01 | .85940E 06 | .19400E 01 | 28 | 3 | 1 | 629 |
| .86130E 06 | .19000E 01 | .86320E 06 | .16700E 01 | .86400E 06 | .19700E 01 | 28 | 3 | 1 | 630 |
| .86480E 06 | .24700E 01 | .86600E 06 | .31600E 01 | .86640E 06 | .32100E 01 | 28 | 3 | 1 | 631 |
| .86750E 06 | .23400E 01 | .86790E 06 | .22100E 01 | .86870E 06 | .22500E 01 | 28 | 3 | 1 | 632 |
| .86950E 06 | .25800E 01 | .87060E 06 | .31700E 01 | .87300E 06 | .32800E 01 | 28 | 3 | 1 | 633 |
| .87340E 06 | .30600E 01 | .87420E 06 | .31200E 01 | .87540E 06 | .32900E 01 | 28 | 3 | 1 | 634 |
| .87770E 06 | .33800E 01 | .87850E 06 | .28900E 01 | .87900E 06 | .27150E 01 | 28 | 3 | 1 | 635 |
| .87930E 06 | .26100E 01 | .88090E 06 | .24300E 01 | .88170E 06 | .20000E 01 | 28 | 3 | 1 | 636 |
| .88210E 06 | .18000E 01 | .88250E 06 | .21000E 01 | .88290E 06 | .24900E 01 | 28 | 3 | 1 | 637 |
| .88370E 06 | .34800E 01 | .88410E 06 | .35100E 01 | .88530E 06 | .28600E 01 | 28 | 3 | 1 | 638 |
| .88610E 06 | .27200E 01 | .88650E 06 | .27400E 01 | .88740E 06 | .29700E 01 | 28 | 3 | 1 | 639 |
| .88820E 06 | .34500E 01 | .88900E 06 | .43100E 01 | .88980E 06 | .50000E 01 | 28 | 3 | 1 | 640 |
| .89020E 06 | .50500E 01 | .89140E 06 | .42200E 01 | .89180E 06 | .39400E 01 | 28 | 3 | 1 | 641 |
| .89300E 06 | .41900E 01 | .89340E 06 | .38700E 01 | .89470E 06 | .36800E 01 | 28 | 3 | 1 | 642 |
| .89630E 06 | .37100E 01 | .89670E 06 | .35000E 01 | .89750E 06 | .32200E 01 | 28 | 3 | 1 | 643 |
| .89830E 06 | .34500E 01 | .89960E 06 | .38700E 01 | .90000E 06 | .41900E 01 | 28 | 3 | 1 | 644 |
| .90060E 06 | .45900E 01 | .90160E 06 | .58200E 01 | .90250E 06 | .47000E 01 | 28 | 3 | 1 | 645 |
| .90330E 06 | .40900E 01 | .90450E 06 | .39000E 01 | .90540E 06 | .39300E 01 | 28 | 3 | 1 | 646 |
| .90660E 06 | .41300E 01 | .90750E 06 | .39100E 01 | .90910E 06 | .40400E 01 | 28 | 3 | 1 | 647 |
| .91040E 06 | .38500E 01 | .91210E 06 | .35900E 01 | .91370E 06 | .34300E 01 | 28 | 3 | 1 | 648 |
| .91540E 06 | .32900E 01 | .91670E 06 | .35600E 01 | .91760E 06 | .35200E 01 | 28 | 3 | 1 | 649 |
| .91970E 06 | .29800E 01 | .92050E 06 | .33400E 01 | .92180E 06 | .32700E 01 | 28 | 3 | 1 | 650 |
| .92350E 06 | .37200E 01 | .92440E 06 | .38500E 01 | .92520E 06 | .35500E 01 | 28 | 3 | 1 | 651 |
| .92610E 06 | .28300E 01 | .92740E 06 | .23700E 01 | .92900E 06 | .19510E 01 | 28 | 3 | 1 | 652 |
| .92950E 06 | .18200E 01 | .93080E 06 | .26800E 01 | .93210E 06 | .36600E 01 | 28 | 3 | 1 | 653 |
| .93260E 06 | .39700E 01 | .93350E 06 | .38600E 01 | .93480E 06 | .35000E 01 | 28 | 3 | 1 | 654 |
| .93650E 06 | .35500E 01 | .93700E 06 | .36600E 01 | .93830E 06 | .37600E 01 | 28 | 3 | 1 | 655 |
| .93910E 06 | .35200E 01 | .94000E 06 | .29600E 01 | .94130E 06 | .26800E 01 | 28 | 3 | 1 | 656 |
| .94270E 06 | .33600E 01 | .94350E 06 | .36800E 01 | .94490E 06 | .34000E 01 | 28 | 3 | 1 | 657 |
| .94560E 06 | .34300E 01 | .94750E 06 | .30000E 01 | .94980E 06 | .24100E 01 | 28 | 3 | 1 | 658 |
| .95000E 06 | .23980E 01 | .95160E 06 | .23100E 01 | .95250E 06 | .26200E 01 | 28 | 3 | 1 | 659 |

| | | | | | | | | | | | | | | | |
|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|----|---|---|-----|
| .95380E | 06 | .33200E | 01 | .95470E | 06 | .35000E | 01 | .95610E | 06 | .30500E | 01 | 28 | 3 | 1 | 660 |
| .95790E | 06 | .28500E | 01 | .95980E | 06 | .31200E | 01 | .95970E | 06 | .37400E | 01 | 28 | 3 | 1 | 661 |
| .96060E | 06 | .39400E | 01 | .96240E | 06 | .33400E | 01 | .96420E | 06 | .27300E | 01 | 28 | 3 | 1 | 662 |
| .96510E | 06 | .29100E | 01 | .96610E | 06 | .30200E | 01 | .96740E | 06 | .30500E | 01 | 28 | 3 | 1 | 663 |
| .96880E | 06 | .32400E | 01 | .97020E | 06 | .25900E | 01 | .97160E | 06 | .22700E | 01 | 28 | 3 | 1 | 664 |
| .97340E | 06 | .25600E | 01 | .97480E | 06 | .23900E | 01 | .97620E | 06 | .25600E | 01 | 28 | 3 | 1 | 665 |
| .97610E | 06 | .29100E | 01 | .97900E | 06 | .37700E | 01 | .98000E | 06 | .43700E | 01 | 28 | 3 | 1 | 666 |
| .98090E | 06 | .43500E | 01 | .98160E | 06 | .40800E | 01 | .98320E | 06 | .39300E | 01 | 28 | 3 | 1 | 667 |
| .98510E | 06 | .31500E | 01 | .98700E | 06 | .26000E | 01 | .98800E | 06 | .27700E | 01 | 28 | 3 | 1 | 668 |
| .98980E | 06 | .35000E | 01 | .99030E | 06 | .36300E | 01 | .99130E | 06 | .34700E | 01 | 28 | 3 | 1 | 669 |
| .99270E | 06 | .31500E | 01 | .99510E | 06 | .30200E | 01 | .99790E | 06 | .28500E | 01 | 28 | 3 | 1 | 670 |
| .99850E | 06 | .35400E | 01 | .99940E | 06 | .36900E | 01 | .99990E | 06 | .34400E | 01 | 28 | 3 | 1 | 671 |
| .10000E | 07 | .33500E | 01 | .10020E | 07 | .29700E | 01 | .10040E | 07 | .31600E | 01 | 28 | 3 | 1 | 672 |
| .10060E | 07 | .27200E | 01 | .10080E | 07 | .35000E | 01 | .10130E | 07 | .25100E | 01 | 28 | 3 | 1 | 673 |
| .10150E | 07 | .28300E | 01 | .10160E | 07 | .30900E | 01 | .10180E | 07 | .22000E | 01 | 28 | 3 | 1 | 674 |
| .10200E | 07 | .23900E | 01 | .10220E | 07 | .18100E | 01 | .10260E | 07 | .33900E | 01 | 28 | 3 | 1 | 675 |
| .10290E | 07 | .35600E | 01 | .10320E | 07 | .24300E | 01 | .10330E | 07 | .24200E | 01 | 28 | 3 | 1 | 676 |
| .10350E | 07 | .29400E | 01 | .10380E | 07 | .31400E | 01 | .10400E | 07 | .27467E | 01 | 28 | 3 | 1 | 677 |
| .10410E | 07 | .25500E | 01 | .10430E | 07 | .31500E | 01 | .10440E | 07 | .41600E | 01 | 28 | 3 | 1 | 678 |
| .10460E | 07 | .36600E | 01 | .10500E | 07 | .26500E | 01 | .10520E | 07 | .31500E | 01 | 28 | 3 | 1 | 679 |
| .10550E | 07 | .19200E | 01 | .10570E | 07 | .21900E | 01 | .10590E | 07 | .28600E | 01 | 28 | 3 | 1 | 680 |
| .10610E | 07 | .31800E | 01 | .10630E | 07 | .33900E | 01 | .10670E | 07 | .21300E | 01 | 28 | 3 | 1 | 681 |
| .10700E | 07 | .23500E | 01 | .10730E | 07 | .31200E | 01 | .10750E | 07 | .24600E | 01 | 28 | 3 | 1 | 682 |
| .10760E | 07 | .21300E | 01 | .10790E | 07 | .31800E | 01 | .10810E | 07 | .37200E | 01 | 28 | 3 | 1 | 683 |
| .10830E | 07 | .43000E | 01 | .10860E | 07 | .37600E | 01 | .10890E | 07 | .36300E | 01 | 28 | 3 | 1 | 684 |
| .10930E | 07 | .19500E | 01 | .10960E | 07 | .19600E | 01 | .10980E | 07 | .25700E | 01 | 28 | 3 | 1 | 685 |
| .11000E | 07 | .30233E | 01 | .11010E | 07 | .32500E | 01 | .11040E | 07 | .29100E | 01 | 28 | 3 | 1 | 686 |
| .11050E | 07 | .30563E | 01 | .11100E | 07 | .38000E | 01 | .11120E | 07 | .35900E | 01 | 28 | 3 | 1 | 687 |
| .11140E | 07 | .41100E | 01 | .11180E | 07 | .29200E | 01 | .11210E | 07 | .21600E | 01 | 28 | 3 | 1 | 688 |
| .11240E | 07 | .28400E | 01 | .11280E | 07 | .16600E | 01 | .11310E | 07 | .28100E | 01 | 28 | 3 | 1 | 689 |
| .11350E | 07 | .31400E | 01 | .11380E | 07 | .21700E | 01 | .11390E | 07 | .19800E | 01 | 28 | 3 | 1 | 690 |
| .11400E | 07 | .23700E | 01 | .11430E | 07 | .37600E | 01 | .11450E | 07 | .37000E | 01 | 28 | 3 | 1 | 691 |
| .11480E | 07 | .32600E | 01 | .11500E | 07 | .36500E | 01 | .11520E | 07 | .37700E | 01 | 28 | 3 | 1 | 692 |
| .11540E | 07 | .42900E | 01 | .11560E | 07 | .46100E | 01 | .11600E | 07 | .32200E | 01 | 28 | 3 | 1 | 693 |
| .11630E | 07 | .35100E | 01 | .11660E | 07 | .40500E | 01 | .11680E | 07 | .35300E | 01 | 28 | 3 | 1 | 694 |
| .11700E | 07 | .41700E | 01 | .11720E | 07 | .41000E | 01 | .11740E | 07 | .27600E | 01 | 28 | 3 | 1 | 695 |
| .11770E | 07 | .17400E | 01 | .11790E | 07 | .22400E | 01 | .11800E | 07 | .24900E | 01 | 28 | 3 | 1 | 696 |
| .11820E | 07 | .25400E | 01 | .11860E | 07 | .30800E | 01 | .11890E | 07 | .31700E | 01 | 28 | 3 | 1 | 697 |
| .11920E | 07 | .30400E | 01 | .11940E | 07 | .33500E | 01 | .11970E | 07 | .25700E | 01 | 28 | 3 | 1 | 698 |
| .11990E | 07 | .26900E | 01 | .12000E | 07 | .27300E | 01 | .12020E | 07 | .29200E | 01 | 28 | 3 | 1 | 699 |
| .12050E | 07 | .30800E | 01 | .12060E | 07 | .28900E | 01 | .12100E | 07 | .33900E | 01 | 28 | 3 | 1 | 700 |
| .12120E | 07 | .38100E | 01 | .12130E | 07 | .39100E | 01 | .12150E | 07 | .34900E | 01 | 28 | 3 | 1 | 701 |
| .12170E | 07 | .27400E | 01 | .12190E | 07 | .33300E | 01 | .12210E | 07 | .42200E | 01 | 28 | 3 | 1 | 702 |
| .12220E | 07 | .43200E | 01 | .12240E | 07 | .38000E | 01 | .12260E | 07 | .42500E | 01 | 28 | 3 | 1 | 703 |
| .12270E | 07 | .46200E | 01 | .12280E | 07 | .45000E | 01 | .12290E | 07 | .39200E | 01 | 28 | 3 | 1 | 704 |
| .12300E | 07 | .31700E | 01 | .12320E | 07 | .25000E | 01 | .12340E | 07 | .26400E | 01 | 28 | 3 | 1 | 705 |
| .12350E | 07 | .31500E | 01 | .12360E | 07 | .39600E | 01 | .12370E | 07 | .42600E | 01 | 28 | 3 | 1 | 706 |
| .12380E | 07 | .42800E | 01 | .12390E | 07 | .39800E | 01 | .12410E | 07 | .33800E | 01 | 28 | 3 | 1 | 707 |
| .12430E | 07 | .26400E | 01 | .12450E | 07 | .28000E | 01 | .12470E | 07 | .30200E | 01 | 28 | 3 | 1 | 708 |
| .12490E | 07 | .30600E | 01 | .12510E | 07 | .35900E | 01 | .12520E | 07 | .37600E | 01 | 28 | 3 | 1 | 709 |
| .12540E | 07 | .32900E | 01 | .12580E | 07 | .34000E | 01 | .12600E | 07 | .32067E | 01 | 28 | 3 | 1 | 710 |
| .12610E | 07 | .31100E | 01 | .12630E | 07 | .35400E | 01 | .12650E | 07 | .37200E | 01 | 28 | 3 | 1 | 711 |
| .12670E | 07 | .33500E | 01 | .12690E | 07 | .28900E | 01 | .12700E | 07 | .26500E | 01 | 28 | 3 | 1 | 712 |
| .12720E | 07 | .33900E | 01 | .12740E | 07 | .39800E | 01 | .12760E | 07 | .37000E | 01 | 28 | 3 | 1 | 713 |
| .12770E | 07 | .31200E | 01 | .12780E | 07 | .27800E | 01 | .12800E | 07 | .35300E | 01 | 28 | 3 | 1 | 714 |
| .12810E | 07 | .39000E | 01 | .12840E | 07 | .38500E | 01 | .12850E | 07 | .37533E | 01 | 28 | 3 | 1 | 715 |
| .12870E | 07 | .35600E | 01 | .12890E | 07 | .43200E | 01 | .12910E | 07 | .48400E | 01 | 28 | 3 | 1 | 716 |
| .12930E | 07 | .50500E | 01 | .12950E | 07 | .46600E | 01 | .12960E | 07 | .40600E | 01 | 28 | 3 | 1 | 717 |
| .12990E | 07 | .30700E | 01 | .13000E | 07 | .33300E | 01 | .13020E | 07 | .35200E | 01 | 28 | 3 | 1 | 718 |
| .13050E | 07 | .34060E | 01 | .13080E | 07 | .33000E | 01 | .13110E | 07 | .34900E | 01 | 28 | 3 | 1 | 719 |

| | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|----|---|---|-----|
| .13140E 07 | .37900E 01 | .13160E 07 | .43600E 01 | .13190E 07 | .44300E 01 | 28 | 3 | 1 | 720 |
| .13210E 07 | .35800E 01 | .13230E 07 | .51600E 01 | .13260E 07 | .37200E 01 | 28 | 3 | 1 | 721 |
| .13280E 07 | .35400E 01 | .13290E 07 | .35700E 01 | .13300E 07 | .39800E 01 | 28 | 3 | 1 | 722 |
| .13320E 07 | .42900E 01 | .13350E 07 | .34700E 01 | .13380E 07 | .32800E 01 | 28 | 3 | 1 | 723 |
| .13390E 07 | .32567E 01 | .13400E 07 | .32533E 01 | .13410E 07 | .32500E 01 | 28 | 3 | 1 | 724 |
| .13440E 07 | .40300E 01 | .13450E 07 | .42900E 01 | .13470E 07 | .42200E 01 | 28 | 3 | 1 | 725 |
| .13490E 07 | .46400E 01 | .13530E 07 | .44000E 01 | .13550E 07 | .37867E 01 | 28 | 3 | 1 | 726 |
| .13560E 07 | .34600E 01 | .13590E 07 | .28100E 01 | .13600E 07 | .27125E 01 | 28 | 3 | 1 | 727 |
| .13630E 07 | .24200E 01 | .13650E 07 | .22000E 01 | .13670E 07 | .25600E 01 | 28 | 3 | 1 | 728 |
| .13690E 07 | .33700E 01 | .13700E 07 | .38300E 01 | .13720E 07 | .35200E 01 | 28 | 3 | 1 | 729 |
| .13740E 07 | .38600E 01 | .13750E 07 | .39200E 01 | .13780E 07 | .36600E 01 | 28 | 3 | 1 | 730 |
| .13810E 07 | .37900E 01 | .13840E 07 | .36000E 01 | .13860E 07 | .28700E 01 | 28 | 3 | 1 | 731 |
| .13880E 07 | .28000E 01 | .13890E 07 | .31300E 01 | .13910E 07 | .33000E 01 | 28 | 3 | 1 | 732 |
| .13960E 07 | .22800E 01 | .13980E 07 | .24200E 01 | .13990E 07 | .28200E 01 | 28 | 3 | 1 | 733 |
| .14000E 07 | .30300E 01 | .14020E 07 | .31400E 01 | .14050E 07 | .26200E 01 | 28 | 3 | 1 | 734 |
| .14060E 07 | .26200E 01 | .14060E 07 | .32000E 01 | .14120E 07 | .33100E 01 | 28 | 3 | 1 | 735 |
| .14140E 07 | .30500E 01 | .14160E 07 | .29900E 01 | .14190E 07 | .33000E 01 | 28 | 3 | 1 | 736 |
| .14200E 07 | .32200E 01 | .14230E 07 | .35900E 01 | .14250E 07 | .40200E 01 | 28 | 3 | 1 | 737 |
| .14270E 07 | .35000E 01 | .14290E 07 | .34000E 01 | .14320E 07 | .42200E 01 | 28 | 3 | 1 | 738 |
| .14330E 07 | .42100E 01 | .14360E 07 | .31800E 01 | .14400E 07 | .32800E 01 | 28 | 3 | 1 | 739 |
| .14420E 07 | .28400E 01 | .14440E 07 | .27000E 01 | .14480E 07 | .32000E 01 | 28 | 3 | 1 | 740 |
| .14500E 07 | .36300E 01 | .14520E 07 | .35400E 01 | .14550E 07 | .32100E 01 | 28 | 3 | 1 | 741 |
| .14560E 07 | .31600E 01 | .14600E 07 | .37400E 01 | .14650E 07 | .40800E 01 | 28 | 3 | 1 | 742 |
| .14670E 07 | .39900E 01 | .14710E 07 | .42000E 01 | .14750E 07 | .31400E 01 | 28 | 3 | 1 | 743 |
| .14780E 07 | .31400E 01 | .14790E 07 | .34500E 01 | .14800E 07 | .37600E 01 | 28 | 3 | 1 | 744 |
| .14810E 07 | .37600E 01 | .14830E 07 | .33100E 01 | .14850E 07 | .31000E 01 | 28 | 3 | 1 | 745 |
| .14870E 07 | .30700E 01 | .14920E 07 | .33700E 01 | .14940E 07 | .33500E 01 | 28 | 3 | 1 | 746 |
| .15000E 07 | .40271E 01 | .15010E 07 | .41400E 01 | .15040E 07 | .37700E 01 | 28 | 3 | 1 | 747 |
| .15070E 07 | .31600E 01 | .15100E 07 | .25200E 01 | .15110E 07 | .25200E 01 | 28 | 3 | 1 | 748 |
| .15160E 07 | .36200E 01 | .15170E 07 | .37100E 01 | .15260E 07 | .28100E 01 | 28 | 3 | 1 | 749 |
| .15290E 07 | .32700E 01 | .15320E 07 | .32200E 01 | .15380E 07 | .28000E 01 | 28 | 3 | 1 | 750 |
| .15420E 07 | .27200E 01 | .15460E 07 | .34400E 01 | .15480E 07 | .38500E 01 | 28 | 3 | 1 | 751 |
| .15490E 07 | .34500E 01 | .15500E 07 | .35700E 01 | .15520E 07 | .30100E 01 | 28 | 3 | 1 | 752 |
| .15560E 07 | .26500E 01 | .15580E 07 | .31800E 01 | .15600E 07 | .36100E 01 | 28 | 3 | 1 | 753 |
| .15620E 07 | .34900E 01 | .15640E 07 | .31800E 01 | .15660E 07 | .32600E 01 | 28 | 3 | 1 | 754 |
| .15690E 07 | .35100E 01 | .15730E 07 | .30300E 01 | .15770E 07 | .32700E 01 | 28 | 3 | 1 | 755 |
| .15790E 07 | .31300E 01 | .15820E 07 | .33300E 01 | .15840E 07 | .33100E 01 | 28 | 3 | 1 | 756 |
| .15890E 07 | .30600E 01 | .15920E 07 | .24500E 01 | .15960E 07 | .21400E 01 | 28 | 3 | 1 | 757 |
| .15990E 07 | .23700E 01 | .16000E 07 | .25200E 01 | .16020E 07 | .28000E 01 | 28 | 3 | 1 | 758 |
| .16030E 07 | .28300E 01 | .16050E 07 | .27000E 01 | .16060E 07 | .27300E 01 | 28 | 3 | 1 | 759 |
| .16080E 07 | .35300E 01 | .16100E 07 | .44300E 01 | .16110E 07 | .45300E 01 | 28 | 3 | 1 | 760 |
| .16130E 07 | .40000E 01 | .16160E 07 | .35900E 01 | .16180E 07 | .33900E 01 | 28 | 3 | 1 | 761 |
| .16210E 07 | .34600E 01 | .16240E 07 | .32700E 01 | .16270E 07 | .36000E 01 | 28 | 3 | 1 | 762 |
| .16280E 07 | .34600E 01 | .16310E 07 | .27700E 01 | .16350E 07 | .26500E 01 | 28 | 3 | 1 | 763 |
| .16390E 07 | .23100E 01 | .16410E 07 | .29000E 01 | .16420E 07 | .27200E 01 | 28 | 3 | 1 | 764 |
| .16450E 07 | .31300E 01 | .16460E 07 | .31600E 01 | .16480E 07 | .30400E 01 | 28 | 3 | 1 | 765 |
| .16500E 07 | .31900E 01 | .16520E 07 | .33400E 01 | .16530E 07 | .32900E 01 | 28 | 3 | 1 | 766 |
| .16560E 07 | .31100E 01 | .16590E 07 | .29800E 01 | .16620E 07 | .32700E 01 | 28 | 3 | 1 | 767 |
| .16650E 07 | .40200E 01 | .16670E 07 | .41500E 01 | .16680E 07 | .39700E 01 | 28 | 3 | 1 | 768 |
| .16710E 07 | .37900E 01 | .16720E 07 | .37700E 01 | .16750E 07 | .35000E 01 | 28 | 3 | 1 | 769 |
| .16760E 07 | .35300E 01 | .16800E 07 | .29500E 01 | .16830E 07 | .30800E 01 | 28 | 3 | 1 | 770 |
| .16870E 07 | .32100E 01 | .16890E 07 | .30300E 01 | .16930E 07 | .25000E 01 | 28 | 3 | 1 | 771 |
| .16950E 07 | .24700E 01 | .16970E 07 | .26900E 01 | .17000E 07 | .35400E 01 | 28 | 3 | 1 | 772 |
| .17020E 07 | .38700E 01 | .17040E 07 | .41500E 01 | .17060E 07 | .39300E 01 | 28 | 3 | 1 | 773 |
| .17080E 07 | .35900E 01 | .17100E 07 | .37200E 01 | .17110E 07 | .39700E 01 | 28 | 3 | 1 | 774 |
| .17140E 07 | .39400E 01 | .17170E 07 | .36400E 01 | .17200E 07 | .31900E 01 | 28 | 3 | 1 | 775 |
| .17220E 07 | .30500E 01 | .17240E 07 | .30300E 01 | .17260E 07 | .30800E 01 | 28 | 3 | 1 | 776 |
| .17290E 07 | .30100E 01 | .17320E 07 | .28400E 01 | .17340E 07 | .30400E 01 | 28 | 3 | 1 | 777 |
| .17370E 07 | .31900E 01 | .17400E 07 | .32700E 01 | .17420E 07 | .31100E 01 | 28 | 3 | 1 | 778 |
| .17440E 07 | .29100E 01 | .17460E 07 | .30100E 01 | .17500E 07 | .30200E 01 | 28 | 3 | 1 | 779 |

| | | | | | | | | | | | | | | | |
|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|----|---|---|-----|
| .17540E | 07 | .28000E | C1 | .17550E | 07 | .28200E | 01 | .17590E | 07 | .31600E | 01 | 28 | 3 | 1 | 780 |
| .17600E | 07 | .30500E | C1 | .17630E | 07 | .26300E | 01 | .17650E | 07 | .25200E | 01 | 28 | 3 | 1 | 781 |
| .17670E | 07 | .25500E | C1 | .17690E | 07 | .28400E | 01 | .17720E | 07 | .33000E | 01 | 28 | 3 | 1 | 782 |
| .17750E | 07 | .32900E | C1 | .17770E | 07 | .30600E | 01 | .17800E | 07 | .28200E | 01 | 28 | 3 | 1 | 783 |
| .17830E | 07 | .28400E | C1 | .17860E | 07 | .27400E | 01 | .17870E | 07 | .28100E | 01 | 28 | 3 | 1 | 784 |
| .17900E | 07 | .31500E | C1 | .17930E | 07 | .39900E | 01 | .17950E | 07 | .43200E | 01 | 28 | 3 | 1 | 785 |
| .17980E | 07 | .44500E | C1 | .17990E | 07 | .43700E | 01 | .18000E | 07 | .42800E | 01 | 28 | 3 | 1 | 786 |
| .18020E | 07 | .39700E | C1 | .18050E | 07 | .39400E | 01 | .18080E | 07 | .41800E | 01 | 28 | 3 | 1 | 787 |
| .18120E | 07 | .36100E | C1 | .18150E | 07 | .32200E | 01 | .18180E | 07 | .29600E | 01 | 28 | 3 | 1 | 788 |
| .18200E | 07 | .26600E | C1 | .18220E | 07 | .28000E | 01 | .18240E | 07 | .29200E | 01 | 28 | 3 | 1 | 789 |
| .18250E | 07 | .29400E | C1 | .18280E | 07 | .26600E | 01 | .18320E | 07 | .26300E | 01 | 28 | 3 | 1 | 790 |
| .18350E | 07 | .28400E | C1 | .18380E | 07 | .28900E | 01 | .18410E | 07 | .29600E | 01 | 28 | 3 | 1 | 791 |
| .18430E | 07 | .30200E | C1 | .18450E | 07 | .33700E | 01 | .18490E | 07 | .30700E | 01 | 28 | 3 | 1 | 792 |
| .18500E | 07 | .30700E | C1 | .18520E | 07 | .30700E | 01 | .18560E | 07 | .30400E | 01 | 28 | 3 | 1 | 793 |
| .18600E | 07 | .29400E | C1 | .18610E | 07 | .29200E | 01 | .18630E | 07 | .25200E | 01 | 28 | 3 | 1 | 794 |
| .18670E | 07 | .22200E | C1 | .18720E | 07 | .22300E | 01 | .18750E | 07 | .23400E | 01 | 28 | 3 | 1 | 795 |
| .18780E | 07 | .24000E | C1 | .18820E | 07 | .28400E | 01 | .18840E | 07 | .31400E | 01 | 28 | 3 | 1 | 796 |
| .18870E | 07 | .33400E | C1 | .18880E | 07 | .33300E | 01 | .18910E | 07 | .31100E | 01 | 28 | 3 | 1 | 797 |
| .18930E | 07 | .39100E | C1 | .18960E | 07 | .30000E | 01 | .19000E | 07 | .34480E | 01 | 28 | 3 | 1 | 798 |
| .19010E | 07 | .35600E | C1 | .19030E | 07 | .34200E | 01 | .19060E | 07 | .32500E | 01 | 28 | 3 | 1 | 799 |
| .19080E | 07 | .32700E | C1 | .19100E | 07 | .33600E | 01 | .19110E | 07 | .33600E | 01 | 28 | 3 | 1 | 800 |
| .19120E | 07 | .32200E | C1 | .19150E | 07 | .31000E | 01 | .19170E | 07 | .29300E | 01 | 28 | 3 | 1 | 801 |
| .19210E | 07 | .26700E | C1 | .19240E | 07 | .25900E | 01 | .19260E | 07 | .24700E | 01 | 28 | 3 | 1 | 802 |
| .19280E | 07 | .23300E | C1 | .19300E | 07 | .23500E | 01 | .19340E | 07 | .25400E | 01 | 28 | 3 | 1 | 803 |
| .19370E | 07 | .27300E | C1 | .19410E | 07 | .31800E | 01 | .19430E | 07 | .33300E | 01 | 28 | 3 | 1 | 804 |
| .19460E | 07 | .33500E | C1 | .19470E | 07 | .32800E | 01 | .19490E | 07 | .31300E | 01 | 28 | 3 | 1 | 805 |
| .19500E | 07 | .28800E | C1 | .19510E | 07 | .26300E | 01 | .19540E | 07 | .23800E | 01 | 28 | 3 | 1 | 806 |
| .19560E | 07 | .23000E | C1 | .19590E | 07 | .24900E | 01 | .19620E | 07 | .27000E | 01 | 28 | 3 | 1 | 807 |
| .19640E | 07 | .28900E | C1 | .19660E | 07 | .29100E | 01 | .19680E | 07 | .28700E | 01 | 28 | 3 | 1 | 808 |
| .19710E | 07 | .39800E | C1 | .19740E | 07 | .32300E | 01 | .19780E | 07 | .34500E | 01 | 28 | 3 | 1 | 809 |
| .19790E | 07 | .35700E | C1 | .19820E | 07 | .31600E | 01 | .19850E | 07 | .29000E | 01 | 28 | 3 | 1 | 810 |
| .19890E | 07 | .29800E | C1 | .19910E | 07 | .31200E | 01 | .19950E | 07 | .31400E | 01 | 28 | 3 | 1 | 811 |
| .19970E | 07 | .31100E | C1 | .19990E | 07 | .29800E | 01 | .20000E | 07 | .29950E | 01 | 28 | 3 | 1 | 812 |
| .20010E | 07 | .30100E | C1 | .20050E | 07 | .28600E | 01 | .20090E | 07 | .30300E | 01 | 28 | 3 | 1 | 813 |
| .20130E | 07 | .28500E | C1 | .20170E | 07 | .31100E | 01 | .20190E | 07 | .30900E | 01 | 28 | 3 | 1 | 814 |
| .20210E | 07 | .28800E | C1 | .20270E | 07 | .32100E | 01 | .20300E | 07 | .32400E | 01 | 28 | 3 | 1 | 815 |
| .20340E | 07 | .38000E | C1 | .20400E | 07 | .34900E | 01 | .20450E | 07 | .32400E | 01 | 28 | 3 | 1 | 816 |
| .20520E | 07 | .29700E | C1 | .20550E | 07 | .31500E | 01 | .20590E | 07 | .34400E | 01 | 28 | 3 | 1 | 817 |
| .20610E | 07 | .34700E | C1 | .20670E | 07 | .32400E | 01 | .20720E | 07 | .29600E | 01 | 28 | 3 | 1 | 818 |
| .20740E | 07 | .28700E | C1 | .20780E | 07 | .30100E | 01 | .20830E | 07 | .29600E | 01 | 28 | 3 | 1 | 819 |
| .20840E | 07 | .29700E | C1 | .20900E | 07 | .29700E | 01 | .20930E | 07 | .32800E | 01 | 28 | 3 | 1 | 820 |
| .20970E | 07 | .29100E | C1 | .21000E | 07 | .27950E | 01 | .21030E | 07 | .26800E | 01 | 28 | 3 | 1 | 821 |
| .21090E | 07 | .39400E | C1 | .21130E | 07 | .28500E | 01 | .21190E | 07 | .31000E | 01 | 28 | 3 | 1 | 822 |
| .21220E | 07 | .35000E | C1 | .21300E | 07 | .37300E | 01 | .21340E | 07 | .34400E | 01 | 28 | 3 | 1 | 823 |
| .21360E | 07 | .34400E | C1 | .21400E | 07 | .37300E | 01 | .21450E | 07 | .34800E | 01 | 28 | 3 | 1 | 824 |
| .21480E | 07 | .36600E | C1 | .21520E | 07 | .29800E | 01 | .21560E | 07 | .26600E | 01 | 28 | 3 | 1 | 825 |
| .21620E | 07 | .28000E | C1 | .21740E | 07 | .27000E | 01 | .21770E | 07 | .29700E | 01 | 28 | 3 | 1 | 826 |
| .21680E | 07 | .34200E | C1 | .21820E | 07 | .35600E | 01 | .21860E | 07 | .32900E | 01 | 28 | 3 | 1 | 827 |
| .21900E | 07 | .30400E | C1 | .21950E | 07 | .30900E | 01 | .21960E | 07 | .31000E | 01 | 28 | 3 | 1 | 828 |
| .22000E | 07 | .30000E | C1 | .22020E | 07 | .29500E | 01 | .22050E | 07 | .28100E | 01 | 28 | 3 | 1 | 829 |
| .22080E | 07 | .31300E | C1 | .22160E | 07 | .27700E | 01 | .22200E | 07 | .26400E | 01 | 28 | 3 | 1 | 830 |
| .22290E | 07 | .34500E | C1 | .22320E | 07 | .34900E | 01 | .22370E | 07 | .30600E | 01 | 28 | 3 | 1 | 831 |
| .22410E | 07 | .29700E | C1 | .22490E | 07 | .32100E | 01 | .22500E | 07 | .31600E | 01 | 28 | 3 | 1 | 832 |
| .22550E | 07 | .29100E | C1 | .22580E | 07 | .31100E | 01 | .22650E | 07 | .34200E | 01 | 28 | 3 | 1 | 833 |
| .22730E | 07 | .33200E | C1 | .22820E | 07 | .28000E | 01 | .22880E | 07 | .33800E | 01 | 28 | 3 | 1 | 834 |
| .22900E | 07 | .34500E | C1 | .22930E | 07 | .32400E | 01 | .22980E | 07 | .34900E | 01 | 28 | 3 | 1 | 835 |
| .23000E | 07 | .33500E | C1 | .23030E | 07 | .31400E | 01 | .23070E | 07 | .34500E | 01 | 28 | 3 | 1 | 836 |
| .23100E | 07 | .39100E | C1 | .23150E | 07 | .34200E | 01 | .23190E | 07 | .34700E | 01 | 28 | 3 | 1 | 837 |
| .23240E | 07 | .30300E | C1 | .23270E | 07 | .30800E | 01 | .23320E | 07 | .33700E | 01 | 28 | 3 | 1 | 838 |
| .23410E | 07 | .29600E | C1 | .23480E | 07 | .35400E | 01 | .23530E | 07 | .36000E | 01 | 28 | 3 | 1 | 839 |

| | | | | | | | | | | | | | | | |
|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|----|---|---|-----|
| .23570E | 07 | .34700E | 01 | .23640E | 07 | .35100E | 01 | .23720E | 07 | .28500E | 01 | 28 | 3 | 1 | 840 |
| .25760E | 07 | .27100E | 01 | .23810E | 07 | .29700E | 01 | .23870E | 07 | .32300E | 01 | 28 | 3 | 1 | 841 |
| .23920E | 07 | .30700E | 01 | .23940E | 07 | .31400E | 01 | .23970E | 07 | .36200E | 01 | 28 | 3 | 1 | 842 |
| .25990E | 07 | .36200E | 01 | .24000E | 07 | .35571E | 01 | .24060E | 07 | .31800E | 01 | 28 | 3 | 1 | 843 |
| .24100E | 07 | .32800E | 01 | .24140E | 07 | .31200E | 01 | .24190E | 07 | .27900E | 01 | 28 | 3 | 1 | 844 |
| .24260E | 07 | .31300E | 01 | .24360E | 07 | .34200E | 01 | .24370E | 07 | .37400E | 01 | 28 | 3 | 1 | 845 |
| .24460E | 07 | .33200E | 01 | .24540E | 07 | .36200E | 01 | .24580E | 07 | .34900E | 01 | 28 | 3 | 1 | 846 |
| .24610E | 07 | .32600E | 01 | .24690E | 07 | .33800E | 01 | .24750E | 07 | .38900E | 01 | 28 | 3 | 1 | 847 |
| .24780E | 07 | .27400E | 01 | .24820E | 07 | .25700E | 01 | .24880E | 07 | .28900E | 01 | 28 | 3 | 1 | 848 |
| .24920E | 07 | .33800E | 01 | .24950E | 07 | .35000E | 01 | .24990E | 07 | .32500E | 01 | 28 | 3 | 1 | 849 |
| .25000E | 07 | .32050E | 01 | .25010E | 07 | .31600E | 01 | .25050E | 07 | .30200E | 01 | 28 | 3 | 1 | 850 |
| .25110E | 07 | .30300E | 01 | .25160E | 07 | .31100E | 01 | .25200E | 07 | .36700E | 01 | 28 | 3 | 1 | 851 |
| .25240E | 07 | .33200E | 01 | .25280E | 07 | .36100E | 01 | .25340E | 07 | .32900E | 01 | 28 | 3 | 1 | 852 |
| .25400E | 07 | .31900E | 01 | .25440E | 07 | .31600E | 01 | .25460E | 07 | .33333E | 01 | 28 | 3 | 1 | 853 |
| .25500E | 07 | .34200E | 01 | .25560E | 07 | .36200E | 01 | .25610E | 07 | .36000E | 01 | 28 | 3 | 1 | 854 |
| .25690E | 07 | .32900E | 01 | .25770E | 07 | .29900E | 01 | .25850E | 07 | .34500E | 01 | 28 | 3 | 1 | 855 |
| .25910E | 07 | .31900E | 01 | .25970E | 07 | .31100E | 01 | .26000E | 07 | .31520E | 01 | 28 | 3 | 1 | 856 |
| .26020E | 07 | .31800E | 01 | .26080E | 07 | .35400E | 01 | .26120E | 07 | .36500E | 01 | 28 | 3 | 1 | 857 |
| .26180E | 07 | .33700E | 01 | .26240E | 07 | .31000E | 01 | .26300E | 07 | .32200E | 01 | 28 | 3 | 1 | 858 |
| .26360E | 07 | .29300E | 01 | .26410E | 07 | .26400E | 01 | .26470E | 07 | .29300E | 01 | 28 | 3 | 1 | 859 |
| .26510E | 07 | .31000E | 01 | .26550E | 07 | .33300E | 01 | .26610E | 07 | .31900E | 01 | 28 | 3 | 1 | 860 |
| .26660E | 07 | .31200E | 01 | .26700E | 07 | .29667E | 01 | .26720E | 07 | .29200E | 01 | 28 | 3 | 1 | 861 |
| .26760E | 07 | .32600E | 01 | .26820E | 07 | .33600E | 01 | .26870E | 07 | .31800E | 01 | 28 | 3 | 1 | 862 |
| .26930E | 07 | .27600E | 01 | .27000E | 07 | .33300E | 01 | .27020E | 07 | .33800E | 01 | 28 | 3 | 1 | 863 |
| .27040E | 07 | .32800E | 01 | .27080E | 07 | .29100E | 01 | .27100E | 07 | .26400E | 01 | 28 | 3 | 1 | 864 |
| .27190E | 07 | .32600E | 01 | .27250E | 07 | .34500E | 01 | .27300E | 07 | .35100E | 01 | 28 | 3 | 1 | 865 |
| .27360E | 07 | .33500E | 01 | .27430E | 07 | .34900E | 01 | .27450E | 07 | .34900E | 01 | 28 | 3 | 1 | 866 |
| .27520E | 07 | .31200E | 01 | .27560E | 07 | .30500E | 01 | .27610E | 07 | .31800E | 01 | 28 | 3 | 1 | 867 |
| .27690E | 07 | .37000E | 01 | .27720E | 07 | .36500E | 01 | .27760E | 07 | .33900E | 01 | 28 | 3 | 1 | 868 |
| .27810E | 07 | .33400E | 01 | .27850E | 07 | .34900E | 01 | .27900E | 07 | .33900E | 01 | 28 | 3 | 1 | 869 |
| .27960E | 07 | .30400E | 01 | .28000E | 07 | .32171E | 01 | .28030E | 07 | .33500E | 01 | 28 | 3 | 1 | 870 |
| .28100E | 07 | .38300E | 01 | .28150E | 07 | .37400E | 01 | .28190E | 07 | .37100E | 01 | 28 | 3 | 1 | 871 |
| .28220E | 07 | .35233E | 01 | .28280E | 07 | .31500E | 01 | .28350E | 07 | .29200E | 01 | 28 | 3 | 1 | 872 |
| .28440E | 07 | .29800E | 01 | .28510E | 07 | .33400E | 01 | .28580E | 07 | .34100E | 01 | 28 | 3 | 1 | 873 |
| .28630E | 07 | .33200E | 01 | .28700E | 07 | .37500E | 01 | .28730E | 07 | .37200E | 01 | 28 | 3 | 1 | 874 |
| .28800E | 07 | .34000E | 01 | .28840E | 07 | .32300E | 01 | .28910E | 07 | .33200E | 01 | 28 | 3 | 1 | 875 |
| .28960E | 07 | .34400E | 01 | .29000E | 07 | .33771E | 01 | .29030E | 07 | .33300E | 01 | 28 | 3 | 1 | 876 |
| .29110E | 07 | .33800E | 01 | .29180E | 07 | .35900E | 01 | .29250E | 07 | .33000E | 01 | 28 | 3 | 1 | 877 |
| .29300E | 07 | .32300E | 01 | .29370E | 07 | .33800E | 01 | .29400E | 07 | .33200E | 01 | 28 | 3 | 1 | 878 |
| .29470E | 07 | .29600E | 01 | .29540E | 07 | .31700E | 01 | .29600E | 07 | .32225E | 01 | 28 | 3 | 1 | 879 |
| .29620E | 07 | .32400E | 01 | .29720E | 07 | .40000E | 01 | .29740E | 07 | .40100E | 01 | 28 | 3 | 1 | 880 |
| .29800E | 07 | .36550E | 01 | .29860E | 07 | .33000E | 01 | .29910E | 07 | .31900E | 01 | 28 | 3 | 1 | 881 |
| .29990E | 07 | .34000E | 01 | .30000E | 07 | .34250E | 01 | .30010E | 07 | .34500E | 01 | 28 | 3 | 1 | 882 |
| .30090E | 07 | .33400E | 01 | .30100E | 07 | .33512E | 01 | .30170E | 07 | .34300E | 01 | 28 | 3 | 1 | 883 |
| .30240E | 07 | .32600E | 01 | .30320E | 07 | .31300E | 01 | .30370E | 07 | .31400E | 01 | 28 | 3 | 1 | 884 |
| .30400E | 07 | .32467E | 01 | .30450E | 07 | .34300E | 01 | .30500E | 07 | .33200E | 01 | 28 | 3 | 1 | 885 |
| .30580E | 07 | .35400E | 01 | .30700E | 07 | .32800E | 01 | .30800E | 07 | .31436E | 01 | 28 | 3 | 1 | 886 |
| .30810E | 07 | .31300E | 01 | .30910E | 07 | .31900E | 01 | .30990E | 07 | .38800E | 01 | 28 | 3 | 1 | 887 |
| .31100E | 07 | .32100E | 01 | .31200E | 07 | .31946E | 01 | .31230E | 07 | .31900E | 01 | 28 | 3 | 1 | 888 |
| .31340E | 07 | .30600E | 01 | .31450E | 07 | .33600E | 01 | .31470E | 07 | .34400E | 01 | 28 | 3 | 1 | 889 |
| .31500E | 07 | .34300E | 01 | .31580E | 07 | .31200E | 01 | .31660E | 07 | .30600E | 01 | 28 | 3 | 1 | 890 |
| .31690E | 07 | .31300E | 01 | .31770E | 07 | .29700E | 01 | .31800E | 07 | .38000E | 01 | 28 | 3 | 1 | 891 |
| .31880E | 07 | .34300E | 01 | .31918E | 07 | .35400E | 01 | .32000E | 07 | .35318E | 01 | 28 | 3 | 1 | 892 |
| .32020E | 07 | .35300E | 01 | .32080E | 07 | .35200E | 01 | .32130E | 07 | .34300E | 01 | 28 | 3 | 1 | 893 |
| .32220E | 07 | .33100E | 01 | .32330E | 07 | .33100E | 01 | .32470E | 07 | .33000E | 01 | 28 | 3 | 1 | 894 |
| .32500E | 07 | .33216E | 01 | .32580E | 07 | .33800E | 01 | .32600E | 07 | .33933E | 01 | 28 | 3 | 1 | 895 |
| .32640E | 07 | .34200E | 01 | .32760E | 07 | .33500E | 01 | .32780E | 07 | .33900E | 01 | 28 | 3 | 1 | 896 |
| .32800E | 07 | .33250E | 01 | .32900E | 07 | .34500E | 01 | .33000E | 07 | .35318E | 01 | 28 | 3 | 1 | 897 |
| .33010E | 07 | .35400E | 01 | .33040E | 07 | .35000E | 01 | .33190E | 07 | .34800E | 01 | 28 | 3 | 1 | 898 |
| .33200E | 07 | .34956E | 01 | .33250E | 07 | .35733E | 01 | .33280E | 07 | .36200E | 01 | 28 | 3 | 1 | 899 |

| | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|----|---|---|-----|
| .33390E 07 | .34900E 01 | .33400E 07 | .34844E 01 | .33480E 07 | .34400E 01 | 26 | 3 | 1 | 900 |
| .33570E 07 | .34000E 01 | .33720E 07 | .34300E 01 | .33840E 07 | .33900E 01 | 28 | 3 | 1 | 901 |
| .33900E 07 | .34300E 01 | .33990E 07 | .34700E 01 | .34000E 07 | .34550E 01 | 28 | 3 | 1 | 902 |
| .34110E 07 | .32900E 01 | .34200E 07 | .32200E 01 | .34300E 07 | .34900E 01 | 28 | 3 | 1 | 903 |
| .34390E 07 | .35000E 01 | .34450E 07 | .34700E 01 | .34570E 07 | .37100E 01 | 28 | 3 | 1 | 904 |
| .34610E 07 | .36600E 01 | .34730E 07 | .34600E 01 | .34860E 07 | .35000E 01 | 28 | 3 | 1 | 905 |
| .34950E 07 | .35900E 01 | .34980E 07 | .35100E 01 | .35000E 07 | .34767E 01 | 28 | 3 | 1 | 906 |
| .35010E 07 | .34600E 01 | .35110E 07 | .35200E 01 | .35270E 07 | .38200E 01 | 28 | 3 | 1 | 907 |
| .35370E 07 | .36700E 01 | .35460E 07 | .35600E 01 | .35490E 07 | .35600E 01 | 28 | 3 | 1 | 908 |
| .35500E 07 | .35500E 01 | .35560E 07 | .34900E 01 | .35660E 07 | .36500E 01 | 28 | 3 | 1 | 909 |
| .35750E 07 | .35400E 01 | .35850E 07 | .34800E 01 | .35950E 07 | .36100E 01 | 28 | 3 | 1 | 910 |
| .36000E 07 | .35700E 01 | .36050E 07 | .35300E 01 | .36150E 07 | .34800E 01 | 28 | 3 | 1 | 911 |
| .36250E 07 | .34400E 01 | .36350E 07 | .33900E 01 | .36480E 07 | .34400E 01 | 28 | 3 | 1 | 912 |
| .36620E 07 | .36300E 01 | .36690E 07 | .37700E 01 | .36720E 07 | .37400E 01 | 28 | 3 | 1 | 913 |
| .36790E 07 | .35200E 01 | .36820E 07 | .34400E 01 | .36890E 07 | .33764E 01 | 28 | 3 | 1 | 914 |
| .36930E 07 | .33400E 01 | .37000E 07 | .32770E 01 | .37030E 07 | .32500E 01 | 28 | 3 | 1 | 915 |
| .37130E 07 | .33500E 01 | .37200E 07 | .33900E 01 | .37270E 07 | .33600E 01 | 28 | 3 | 1 | 916 |
| .37310E 07 | .32900E 01 | .37410E 07 | .36000E 01 | .37480E 07 | .37000E 01 | 28 | 3 | 1 | 917 |
| .37500E 07 | .36818E 01 | .37590E 07 | .36000E 01 | .37630E 07 | .35600E 01 | 28 | 3 | 1 | 918 |
| .37660E 07 | .35300E 01 | .37760E 07 | .35500E 01 | .37940E 07 | .35300E 01 | 28 | 3 | 1 | 919 |
| .38000E 07 | .34780E 01 | .38090E 07 | .34000E 01 | .38230E 07 | .35500E 01 | 28 | 3 | 1 | 920 |
| .38340E 07 | .34800E 01 | .38480E 07 | .36500E 01 | .38670E 07 | .36600E 01 | 28 | 3 | 1 | 921 |
| .38850E 07 | .34600E 01 | .39000E 07 | .35400E 01 | .39110E 07 | .34800E 01 | 28 | 3 | 1 | 922 |
| .39150E 07 | .33300E 01 | .39260E 07 | .33800E 01 | .39380E 07 | .36100E 01 | 28 | 3 | 1 | 923 |
| .39530E 07 | .34600E 01 | .39680E 07 | .34600E 01 | .39830E 07 | .34700E 01 | 28 | 3 | 1 | 924 |
| .39990E 07 | .34300E 01 | .40000E 07 | .34625E 01 | .40030E 07 | .34100E 01 | 28 | 3 | 1 | 925 |
| .40260E 07 | .32700E 01 | .40420E 07 | .36000E 01 | .40500E 07 | .36800E 01 | 28 | 3 | 1 | 926 |
| .40540E 07 | .37200E 01 | .40610E 07 | .34800E 01 | .40890E 07 | .35500E 01 | 28 | 3 | 1 | 927 |
| .41000E 07 | .34125E 01 | .41010E 07 | .34000E 01 | .41300E 07 | .35500E 01 | 28 | 3 | 1 | 928 |
| .41540E 07 | .33900E 01 | .41750E 07 | .35200E 01 | .41870E 07 | .35900E 01 | 28 | 3 | 1 | 929 |
| .42000E 07 | .35821E 01 | .42200E 07 | .35700E 01 | .42330E 07 | .36400E 01 | 26 | 3 | 1 | 930 |
| .42460E 07 | .35000E 01 | .42590E 07 | .35462E 01 | .42590E 07 | .36500E 01 | 28 | 3 | 1 | 931 |
| .42930E 07 | .32900E 01 | .43000E 07 | .34012E 01 | .43100E 07 | .35600E 01 | 28 | 3 | 1 | 932 |
| .43270E 07 | .35900E 01 | .43360E 07 | .37100E 01 | .43620E 07 | .35500E 01 | 28 | 3 | 1 | 933 |
| .43850E 07 | .36400E 01 | .44000E 07 | .35626E 01 | .44160E 07 | .34800E 01 | 28 | 3 | 1 | 934 |
| .44430E 07 | .35700E 01 | .44610E 07 | .38000E 01 | .44750E 07 | .36500E 01 | 28 | 3 | 1 | 935 |
| .44890E 07 | .37500E 01 | .45000E 07 | .36778E 01 | .45210E 07 | .35400E 01 | 28 | 3 | 1 | 936 |
| .45400E 07 | .34700E 01 | .45540E 07 | .35600E 01 | .45680E 07 | .34200E 01 | 26 | 3 | 1 | 937 |
| .45920E 07 | .34100E 01 | .46250E 07 | .35100E 01 | .46590E 07 | .35900E 01 | 28 | 3 | 1 | 938 |
| .46790E 07 | .36790E 01 | .46980E 07 | .34200E 01 | .47000E 07 | .34440E 01 | 28 | 3 | 1 | 939 |
| .47230E 07 | .37200E 01 | .47430E 07 | .37400E 01 | .47680E 07 | .34400E 01 | 28 | 3 | 1 | 940 |
| .47880E 07 | .35500E 01 | .48000E 07 | .34814E 01 | .48090E 07 | .34300E 01 | 28 | 3 | 1 | 941 |
| .48290E 07 | .35700E 01 | .48550E 07 | .34800E 01 | .48910E 07 | .33800E 01 | 28 | 3 | 1 | 942 |
| .49070E 07 | .36100E 01 | .49230E 07 | .34100E 01 | .49490E 07 | .34300E 01 | 28 | 3 | 1 | 943 |
| .49760E 07 | .35900E 01 | .49980E 07 | .36300E 01 | .50000E 07 | .36420E 01 | 28 | 3 | 1 | 944 |
| .50030E 07 | .36600E 01 | .50580E 07 | .36200E 01 | .50910E 07 | .35900E 01 | 28 | 3 | 1 | 945 |
| .51130E 07 | .35700E 01 | .51410E 07 | .36000E 01 | .51530E 07 | .34800E 01 | 28 | 3 | 1 | 946 |
| .51930E 07 | .36500E 01 | .52270E 07 | .36500E 01 | .52560E 07 | .36300E 01 | 28 | 3 | 1 | 947 |
| .52970E 07 | .36100E 01 | .53000E 07 | .36150E 01 | .53270E 07 | .36600E 01 | 28 | 3 | 1 | 948 |
| .53330E 07 | .37000E 01 | .53750E 07 | .36000E 01 | .54000E 07 | .35931E 01 | 26 | 3 | 1 | 949 |
| .54110E 07 | .35900E 01 | .54240E 07 | .35000E 01 | .54420E 07 | .35300E 01 | 28 | 3 | 1 | 950 |
| .54670E 07 | .35200E 01 | .54920E 07 | .35900E 01 | .55000E 07 | .35544E 01 | 28 | 3 | 1 | 951 |
| .55100E 07 | .35100E 01 | .55420E 07 | .35400E 01 | .55670E 07 | .35800E 01 | 28 | 3 | 1 | 952 |
| .55860E 07 | .36800E 01 | .56250E 07 | .35600E 01 | .56700E 07 | .36100E 01 | 28 | 3 | 1 | 953 |
| .56900E 07 | .35800E 01 | .57100E 07 | .36100E 01 | .57230E 07 | .37200E 01 | 28 | 3 | 1 | 954 |
| .57630E 07 | .35700E 01 | .58000E 07 | .36673E 01 | .58040E 07 | .37000E 01 | 28 | 3 | 1 | 955 |
| .58380E 07 | .36200E 01 | .58720E 07 | .36400E 01 | .59000E 07 | .36263E 01 | 28 | 3 | 1 | 956 |
| .59130E 07 | .36200E 01 | .59270E 07 | .36600E 01 | .59630E 07 | .35900E 01 | 28 | 3 | 1 | 957 |
| .59980E 07 | .36400E 01 | .60000E 07 | .36286E 01 | .60050E 07 | .36000E 01 | 28 | 3 | 1 | 958 |
| .60560E 07 | .36956E 01 | .61000E 07 | .36104E 01 | .61870E 07 | .36200E 01 | 28 | 3 | 1 | 959 |

| | | | | | | | | | | | | | | | |
|----------|----|----------|----|----------|----|----------|----|----------|----|----------|----|----|---|---|------|
| .63000E | 07 | .36200E | 01 | .64000E | 07 | .36200E | 01 | .64010E | 07 | .36200E | 01 | 28 | 3 | 1 | 960 |
| .64020E | 07 | .36200E | 01 | .65000E | 07 | .36249E | 01 | .66000E | 07 | .36299E | 01 | 28 | 3 | 1 | 961 |
| .66030E | 07 | .36300E | 01 | .68050E | 07 | .36200E | 01 | .70000E | 07 | .35923E | 01 | 28 | 3 | 1 | 962 |
| .70160E | 07 | .35900E | 01 | .71900E | 07 | .35700E | 01 | .74010E | 07 | .35500E | 01 | 28 | 3 | 1 | 963 |
| .74300E | 07 | .35436E | 01 | .75000E | 07 | .35453E | 01 | .76100E | 07 | .35400E | 01 | 28 | 3 | 1 | 964 |
| .78000E | 07 | .35100E | 01 | .79540E | 07 | .35100E | 01 | .79910E | 07 | .35100E | 01 | 28 | 3 | 1 | 965 |
| .80000E | 07 | .35098E | 01 | .81360E | 07 | .35050E | 01 | .83190E | 07 | .34585E | 01 | 28 | 3 | 1 | 966 |
| .84250E | 07 | .34310E | 01 | .85000E | 07 | .34251E | 01 | .87300E | 07 | .34070E | 01 | 28 | 3 | 1 | 967 |
| .90000E | 07 | .33084E | 01 | .90520E | 07 | .33610E | 01 | .93920E | 07 | .33110E | 01 | 28 | 3 | 1 | 968 |
| .95000E | 07 | .32937E | 01 | .96920E | 07 | .32664E | 01 | .97510E | 07 | .32600E | 01 | 28 | 3 | 1 | 969 |
| .10000E | 08 | .32265E | 01 | .10130E | 08 | .32090E | 01 | .10500E | 08 | .31675E | 01 | 28 | 3 | 1 | 970 |
| .10540E | 08 | .31630E | 01 | .10960E | 08 | .31140E | 01 | .11000E | 08 | .31082E | 01 | 28 | 3 | 1 | 971 |
| .11420E | 08 | .30470E | 01 | .11500E | 08 | .30330E | 01 | .11750E | 08 | .29692E | 01 | 28 | 3 | 1 | 972 |
| .11900E | 08 | .29630E | 01 | .12000E | 08 | .29505E | 01 | .12250E | 08 | .29192E | 01 | 28 | 3 | 1 | 973 |
| .12410E | 08 | .28922E | 01 | .12420E | 08 | .28980E | 01 | .12500E | 08 | .28899E | 01 | 28 | 3 | 1 | 974 |
| .12970E | 08 | .28420E | 01 | .13000E | 08 | .28385E | 01 | .13500E | 08 | .27809E | 01 | 28 | 3 | 1 | 975 |
| .13560E | 08 | .27740E | 01 | .14000E | 08 | .27160E | 01 | .14190E | 08 | .26910E | 01 | 28 | 3 | 1 | 976 |
| .14500E | 08 | .26559E | 01 | .14670E | 08 | .26140E | 01 | .15000E | 08 | .26028E | 01 | 28 | 3 | 1 | 977 |
| .15000E | 08 | .25597E | 01 | .15590E | 08 | .25520E | 01 | .16000E | 08 | .25226E | 01 | 28 | 3 | 1 | 978 |
| .16370E | 08 | .24960E | 01 | .16500E | 08 | .24897E | 01 | .17000E | 08 | .24652E | 01 | 28 | 3 | 1 | 979 |
| .17210E | 08 | .24550E | 01 | .17500E | 08 | .24416E | 01 | .18000E | 08 | .24185E | 01 | 28 | 3 | 1 | 980 |
| .18120E | 08 | .24130E | 01 | .18500E | 08 | .24029E | 01 | .19000E | 08 | .23697E | 01 | 28 | 3 | 1 | 981 |
| .19100E | 08 | .23870E | 01 | .19500E | 08 | .23750E | 01 | .20000E | 08 | .23600E | 01 | 28 | 3 | 1 | 982 |
| .00000E | 00 | .00000E | 00 | | | | | | | | | 28 | 3 | 0 | 983 |
| 2.80000+ | 4 | 5.81026+ | 1 | | | | | | | | | 28 | 3 | 2 | 984 |
| 0.00000+ | 0 | 0.00000+ | 0 | | | | | | | | | 28 | 3 | 2 | 985 |
| | 2 | | 3 | 2519 | | 2 | | 2 | | 2519 | | 28 | 3 | 2 | 986 |
| 1.00000- | 5 | 7.76560+ | 0 | 2.53000- | 2 | 7.76560+ | 0 | 3.36743- | 2 | 7.76550+ | 0 | 28 | 3 | 2 | 987 |
| 4.48205- | 2 | 7.76560+ | 0 | 5.96561- | 2 | 7.76560+ | 0 | 7.94022- | 2 | 7.76560+ | 0 | 28 | 3 | 2 | 988 |
| 1.05684- | 1 | 7.76550+ | 0 | 1.40666- | 1 | 7.76550+ | 0 | 1.87226- | 1 | 7.76540+ | 0 | 28 | 3 | 2 | 989 |
| 2.49198- | 1 | 7.76540+ | 0 | 3.31683- | 1 | 7.76530+ | 0 | 4.41470- | 1 | 7.76520+ | 0 | 28 | 3 | 2 | 990 |
| 5.87596- | 1 | 7.76500+ | 0 | 7.82091- | 1 | 7.76480+ | 0 | 1.04096+ | 0 | 7.76460+ | 0 | 28 | 3 | 2 | 991 |
| 1.38552+ | 0 | 7.76420+ | 0 | 1.84413+ | 0 | 7.76390+ | 0 | 2.45454+ | 0 | 7.76330+ | 0 | 28 | 3 | 2 | 992 |
| 3.26699+ | 0 | 7.76250+ | 0 | 4.34836+ | 0 | 7.76150+ | 0 | 5.78767+ | 0 | 7.76000+ | 0 | 28 | 3 | 2 | 993 |
| 7.70338+ | 0 | 7.75820+ | 0 | 1.02532+ | 1 | 7.75580+ | 0 | 1.36470+ | 1 | 7.75240+ | 0 | 28 | 3 | 2 | 994 |
| 1.81642+ | 1 | 7.74810+ | 0 | 2.41765+ | 1 | 7.74230+ | 0 | 3.21789+ | 1 | 7.73460+ | 0 | 28 | 3 | 2 | 995 |
| 4.28302+ | 1 | 7.72430+ | 0 | 5.76070+ | 1 | 7.71060+ | 0 | 7.58763+ | 1 | 7.69260+ | 0 | 28 | 3 | 2 | 996 |
| 1.00991+ | 2 | 7.66840+ | 0 | 1.22199+ | 2 | 7.64820+ | 0 | 1.62648+ | 2 | 7.60950+ | 0 | 28 | 3 | 2 | 997 |
| 2.16484+ | 2 | 7.55820+ | 0 | 2.82140+ | 2 | 7.49030+ | 0 | 3.83514+ | 2 | 7.40040+ | 0 | 28 | 3 | 2 | 998 |
| 5.10458+ | 2 | 7.28190+ | 0 | 6.17654+ | 2 | 7.18270+ | 0 | 8.22097+ | 2 | 6.99560+ | 0 | 28 | 3 | 2 | 999 |
| 9.94738+ | 2 | 6.84000+ | 0 | 1.29104+ | 3 | 6.57800+ | 0 | 1.29134+ | 3 | 6.57770+ | 0 | 28 | 3 | 2 | 1000 |
| 1.29155+ | 3 | 6.57750+ | 0 | 1.29179+ | 3 | 6.57730+ | 0 | 1.29186+ | 3 | 6.57720+ | 0 | 28 | 3 | 2 | 1001 |
| 1.29201+ | 3 | 6.57710+ | 0 | 1.29214+ | 3 | 6.57700+ | 0 | 1.29230+ | 3 | 6.57680+ | 0 | 28 | 3 | 2 | 1002 |
| 1.29245+ | 3 | 6.57670+ | 0 | 1.29266+ | 3 | 6.57650+ | 0 | 1.29342+ | 3 | 6.57590+ | 0 | 28 | 3 | 2 | 1003 |
| 1.76224+ | 3 | 6.17460+ | 0 | 2.25226+ | 3 | 5.77280+ | 0 | 2.25378+ | 3 | 5.77160+ | 0 | 28 | 3 | 2 | 1004 |
| 2.25480+ | 3 | 5.77090+ | 0 | 2.25551+ | 3 | 5.77060+ | 0 | 2.25598+ | 3 | 5.77030+ | 0 | 28 | 3 | 2 | 1005 |
| 2.25631+ | 3 | 5.77000+ | 0 | 2.25653+ | 3 | 5.76960+ | 0 | 2.25668+ | 3 | 5.77040+ | 0 | 28 | 3 | 2 | 1006 |
| 2.25685+ | 3 | 5.77020+ | 0 | 2.25701+ | 3 | 5.76750+ | 0 | 2.25715+ | 3 | 5.76760+ | 0 | 28 | 3 | 2 | 1007 |
| 2.25732+ | 3 | 5.76670+ | 0 | 2.25747+ | 3 | 5.76610+ | 0 | 2.25769+ | 3 | 5.76660+ | 0 | 28 | 3 | 2 | 1008 |
| 2.25802+ | 3 | 5.76700+ | 0 | 2.25849+ | 3 | 5.76690+ | 0 | 2.25919+ | 3 | 5.76650+ | 0 | 28 | 3 | 2 | 1009 |
| 2.26022+ | 3 | 5.76590+ | 0 | 2.25907+ | 3 | 5.75100+ | 0 | 2.34554+ | 3 | 5.69790+ | 0 | 28 | 3 | 2 | 1010 |
| 3.43410+ | 3 | 4.41890+ | 0 | 3.77751+ | 3 | 4.46500+ | 0 | 4.01358+ | 3 | 4.16390+ | 0 | 28 | 3 | 2 | 1011 |
| 4.20081+ | 3 | 3.90700+ | 0 | 4.57079+ | 3 | 3.50520+ | 0 | 5.02787+ | 3 | 3.07890+ | 0 | 28 | 3 | 2 | 1012 |
| 5.52782+ | 3 | 2.52030+ | 0 | 5.52852+ | 3 | 2.51970+ | 0 | 5.52899+ | 3 | 2.51950+ | 0 | 28 | 3 | 2 | 1013 |
| 5.52931+ | 3 | 2.51950+ | 0 | 5.52953+ | 3 | 2.51940+ | 0 | 5.52978+ | 3 | 2.51860+ | 0 | 28 | 3 | 2 | 1014 |
| 5.52985+ | 3 | 2.51830+ | 0 | 5.53001+ | 3 | 2.51700+ | 0 | 5.53015+ | 3 | 2.51540+ | 0 | 28 | 3 | 2 | 1015 |
| 5.53032+ | 3 | 2.51550+ | 0 | 5.53047+ | 3 | 2.51540+ | 0 | 5.53069+ | 3 | 2.51540+ | 0 | 28 | 3 | 2 | 1016 |
| 5.53101+ | 3 | 2.51550+ | 0 | 5.53148+ | 3 | 2.51530+ | 0 | 5.53218+ | 3 | 2.51470+ | 0 | 28 | 3 | 2 | 1017 |
| 5.54488+ | 3 | 2.50200+ | 0 | 5.86555+ | 3 | 2.19260+ | 0 | 6.88784+ | 3 | 1.35510+ | 0 | 28 | 3 | 2 | 1018 |
| 6.88853+ | 3 | 1.35510+ | 0 | 6.88900+ | 3 | 1.35550+ | 0 | 6.88932+ | 3 | 1.35600+ | 0 | 28 | 3 | 2 | 1019 |

| | | | | | | | | | | | | | | | |
|----------|---|-----------|---|----------|---|-----------|---|----------|---|-----------|---|----|---|---|------|
| 6.88954+ | 3 | 1,35560+ | 0 | 6.88979+ | 3 | 1,35680+ | 0 | 6.88985+ | 3 | 1,35570+ | 0 | 28 | 3 | 2 | 1020 |
| 6.89001+ | 3 | 1,35220+ | 0 | 6.89015+ | 3 | 1,34880+ | 0 | 6.89031+ | 3 | 1,34750+ | 0 | 28 | 3 | 2 | 1021 |
| 6.89046+ | 3 | 1,34780+ | 0 | 6.89068+ | 3 | 1,34830+ | 0 | 6.89100+ | 3 | 1,34900+ | 0 | 28 | 3 | 2 | 1022 |
| 6.89147+ | 3 | 1,34930+ | 0 | 6.89216+ | 3 | 1,34930+ | 0 | 6.90005+ | 3 | 1,34410+ | 0 | 28 | 3 | 2 | 1023 |
| 6.89744+ | 3 | 4,03580- | 1 | 6.41520+ | 3 | 1,47850- | 1 | 6.61219+ | 3 | -1,25800- | 2 | 28 | 3 | 2 | 1024 |
| 8.90718+ | 3 | -2,55730- | 1 | 9.27816+ | 3 | -6,96960- | 1 | 9.51637+ | 3 | -8,95900- | 1 | 28 | 3 | 2 | 1025 |
| 9.52001+ | 3 | -4,19300- | 1 | 9.53692+ | 3 | -9,18280- | 1 | 9.55652+ | 3 | -9,34040- | 1 | 28 | 3 | 2 | 1026 |
| 9.79790+ | 3 | -1,13870+ | 0 | 1.06447+ | 4 | -1,82750+ | 0 | 1.07777+ | 4 | -1,92140+ | 0 | 28 | 3 | 2 | 1027 |
| 1.11636+ | 4 | -2,14420+ | 0 | 1.15680+ | 4 | -2,27670+ | 0 | 1.19092+ | 4 | -2,36780+ | 0 | 28 | 3 | 2 | 1028 |
| 1.21950+ | 4 | -2,53010+ | 0 | 1.32972+ | 4 | -3,57980+ | 0 | 1.32981+ | 4 | -3,56700+ | 0 | 28 | 3 | 2 | 1029 |
| 1.32997+ | 4 | -3,54920+ | 0 | 1.33013+ | 4 | -3,68120+ | 0 | 1.33019+ | 4 | -3,67460+ | 0 | 28 | 3 | 2 | 1030 |
| 1.33028+ | 4 | -3,65720+ | 0 | 1.33419+ | 4 | -3,65700+ | 0 | 1.35963+ | 4 | -3,81610+ | 0 | 28 | 3 | 2 | 1031 |
| 1.35975+ | 4 | -3,80410+ | 0 | 1.35983+ | 4 | -3,79760+ | 0 | 1.35997+ | 4 | -3,67370+ | 0 | 28 | 3 | 2 | 1032 |
| 1.36012+ | 4 | -3,86500+ | 0 | 1.36017+ | 4 | -3,88580+ | 0 | 1.36025+ | 4 | -3,86920+ | 0 | 28 | 3 | 2 | 1033 |
| 1.36037+ | 4 | -3,86390+ | 0 | 1.36964+ | 4 | -3,91360+ | 0 | 1.39881+ | 4 | -4,22020+ | 0 | 28 | 3 | 2 | 1034 |
| 1.43964+ | 4 | -4,48750+ | 0 | 1.44575+ | 4 | -4,50090+ | 0 | 1.46761+ | 4 | -4,36190+ | 0 | 28 | 3 | 2 | 1035 |
| 1.47904+ | 4 | -4,16270+ | 0 | 1.50169+ | 4 | -3,20150+ | 0 | 1.51712+ | 4 | -2,43890+ | 0 | 28 | 3 | 2 | 1036 |
| 1.55000+ | 4 | -1,56800+ | 0 | 1.56908+ | 4 | -1,51400+ | 0 | 1.58288+ | 4 | -1,21400+ | 0 | 28 | 3 | 2 | 1037 |
| 1.59831+ | 4 | -6,28900- | 1 | 1.64448+ | 4 | 9,20400- | 1 | 1.65425+ | 4 | 1,09400+ | 0 | 28 | 3 | 2 | 1038 |
| 1.70315+ | 4 | 1,42930+ | 0 | 1.73576+ | 4 | 1,40540+ | 0 | 1.78804+ | 4 | 1,24680+ | 0 | 28 | 3 | 2 | 1039 |
| 1.88950+ | 4 | 9,22500- | 1 | 1.89988+ | 4 | 8,64500- | 1 | 1.89978+ | 4 | 8,65600- | 1 | 28 | 3 | 2 | 1040 |
| 1.89997+ | 4 | 8,64590- | 1 | 1.90015+ | 4 | 8,52900- | 1 | 1.90022+ | 4 | 8,54800- | 1 | 28 | 3 | 2 | 1041 |
| 1.90102+ | 4 | 8,56000- | 1 | 1.97943+ | 4 | 6,35400- | 1 | 1.99946+ | 4 | 5,92300- | 1 | 28 | 3 | 2 | 1042 |
| 1.99963+ | 4 | 5,93000- | 1 | 1.99975+ | 4 | 5,99300- | 1 | 1.99983+ | 4 | 6,06600- | 1 | 28 | 3 | 2 | 1043 |
| 1.99997+ | 4 | 6,03390- | 1 | 2.00012+ | 4 | 5,57100- | 1 | 2.00017+ | 4 | 5,62700- | 1 | 28 | 3 | 2 | 1044 |
| 2.00025+ | 4 | 5,68100- | 1 | 2.00037+ | 4 | 5,72600- | 1 | 2.00251+ | 4 | 5,62200- | 1 | 28 | 3 | 2 | 1045 |
| 2.03552+ | 4 | 5,01000- | 1 | 2.07866+ | 4 | 4,10700- | 1 | 2.09549+ | 4 | 3,82200- | 1 | 28 | 3 | 2 | 1046 |
| 2.10027+ | 4 | 3,77800- | 1 | 2.10327+ | 4 | 3,79000- | 1 | 2.10542+ | 4 | 3,85600- | 1 | 28 | 3 | 2 | 1047 |
| 2.10688+ | 4 | 3,95400- | 1 | 2.10736+ | 4 | 4,19030- | 1 | 2.10856+ | 4 | 4,50700- | 1 | 28 | 3 | 2 | 1048 |
| 2.10933+ | 4 | 5,21400- | 1 | 2.10954+ | 4 | 5,92100- | 1 | 2.10969+ | 4 | 5,32800- | 1 | 28 | 3 | 2 | 1049 |
| 2.10979+ | 4 | 4,97700- | 1 | 2.11000+ | 4 | 3,77400- | 1 | 2.11021+ | 4 | 2,66300- | 1 | 28 | 3 | 2 | 1050 |
| 2.11031+ | 4 | 2,44000- | 1 | 2.11067+ | 4 | 2,23200- | 1 | 2.11098+ | 4 | 2,42500- | 1 | 28 | 3 | 2 | 1051 |
| 2.11144+ | 4 | 2,60000- | 1 | 2.11212+ | 4 | 2,77800- | 1 | 2.11312+ | 4 | 2,93400- | 1 | 28 | 3 | 2 | 1052 |
| 2.11458+ | 4 | 3,03800- | 1 | 2.11673+ | 4 | 3,09100- | 1 | 2.11988+ | 4 | 3,09500- | 1 | 28 | 3 | 2 | 1053 |
| 2.13132+ | 4 | 2,93600- | 1 | 2.26326+ | 4 | 7,34000- | 2 | 2.31029+ | 4 | -2,26000- | 3 | 28 | 3 | 2 | 1054 |
| 2.37694+ | 4 | -1,07900- | 1 | 2.37791+ | 4 | -1,08600- | 1 | 2.37858+ | 4 | -1,08400- | 1 | 28 | 3 | 2 | 1055 |
| 2.37903+ | 4 | -1,07200- | 1 | 2.37934+ | 4 | -1,05000- | 1 | 2.37955+ | 4 | -1,04500- | 1 | 28 | 3 | 2 | 1056 |
| 2.37969+ | 4 | -9,66000- | 2 | 2.37979+ | 4 | -8,66000- | 2 | 2.37985+ | 4 | -9,00000- | 2 | 28 | 3 | 2 | 1057 |
| 2.37990+ | 4 | -9,34000- | 2 | 2.37997+ | 4 | -1,15810- | 1 | 2.38004+ | 4 | -1,19400- | 1 | 28 | 3 | 2 | 1058 |
| 2.38014+ | 4 | -1,52100- | 1 | 2.38021+ | 4 | -1,33800- | 1 | 2.38030+ | 4 | -1,32700- | 1 | 28 | 3 | 2 | 1059 |
| 2.38045+ | 4 | -1,28100- | 1 | 2.38066+ | 4 | -1,24700- | 1 | 2.38097+ | 4 | -1,22400- | 1 | 28 | 3 | 2 | 1060 |
| 2.38209+ | 4 | -1,21100- | 1 | 2.38306+ | 4 | -1,21600- | 1 | 2.38450+ | 4 | -1,23600- | 1 | 28 | 3 | 2 | 1061 |
| 2.54132+ | 4 | -4,09500- | 1 | 2.59780+ | 4 | -5,61100- | 1 | 2.65768+ | 4 | -7,73800- | 1 | 28 | 3 | 2 | 1062 |
| 2.65842+ | 4 | -7,70700- | 1 | 2.65892+ | 4 | -7,63600- | 1 | 2.65927+ | 4 | -7,50700- | 1 | 28 | 3 | 2 | 1063 |
| 2.65950+ | 4 | -7,31100- | 1 | 2.65966+ | 4 | -7,09600- | 1 | 2.65977+ | 4 | -6,69100- | 1 | 28 | 3 | 2 | 1064 |
| 2.65984+ | 4 | -6,47300- | 1 | 2.65989+ | 4 | -5,95800- | 1 | 2.65997+ | 4 | -6,00160- | 1 | 28 | 3 | 2 | 1065 |
| 2.66005+ | 4 | -8,32200- | 1 | 2.66010+ | 4 | -9,10180- | 1 | 2.66016+ | 4 | -9,36100- | 1 | 28 | 3 | 2 | 1066 |
| 2.66023+ | 4 | -9,25500- | 1 | 2.66034+ | 4 | -8,94600- | 1 | 2.66050+ | 4 | -8,62000- | 1 | 28 | 3 | 2 | 1067 |
| 2.66073+ | 4 | -8,44500- | 1 | 2.66108+ | 4 | -8,33400- | 1 | 2.66158+ | 4 | -8,26300- | 1 | 28 | 3 | 2 | 1068 |
| 2.66501+ | 4 | -8,29300- | 1 | 2.66736+ | 4 | -8,38890- | 1 | 2.67362+ | 4 | -8,69360- | 1 | 28 | 3 | 2 | 1069 |
| 2.71628+ | 4 | -1,14980+ | 0 | 2.76536+ | 4 | -1,70590+ | 0 | 2.79877+ | 4 | -2,35620+ | 0 | 28 | 3 | 2 | 1070 |
| 2.82151+ | 4 | -2,87930+ | 0 | 2.83699+ | 4 | -2,95590+ | 0 | 2.84753+ | 4 | -2,58570+ | 0 | 28 | 3 | 2 | 1071 |
| 2.85471+ | 4 | -2,13600+ | 0 | 2.87800+ | 4 | -1,57760+ | 0 | 2.88529+ | 4 | -1,37030+ | 0 | 28 | 3 | 2 | 1072 |
| 2.90301+ | 4 | -3,95000- | 1 | 2.91849+ | 4 | 2,19500- | 1 | 2.94123+ | 4 | 5,70500- | 1 | 28 | 3 | 2 | 1073 |
| 2.97464+ | 4 | 6,21200- | 1 | 2.99030+ | 4 | 5,89100- | 1 | 3.00939+ | 4 | 5,40900- | 1 | 28 | 3 | 2 | 1074 |
| 3.00972+ | 4 | 5,43600- | 1 | 3.00981+ | 4 | 5,45900- | 1 | 3.00997+ | 4 | 5,42170- | 1 | 28 | 3 | 2 | 1075 |
| 3.01013+ | 4 | 5,23300- | 1 | 3.01019+ | 4 | 5,24700- | 1 | 3.01028+ | 4 | 5,28100- | 1 | 28 | 3 | 2 | 1076 |
| 3.01061+ | 4 | 5,30600- | 1 | 3.01090+ | 4 | 5,31100- | 1 | 3.01132+ | 4 | 5,30600- | 1 | 28 | 3 | 2 | 1077 |
| 3.08927+ | 4 | 3,24500- | 1 | 3.09557+ | 4 | 3,16000- | 1 | 3.16722+ | 4 | 1,63600- | 1 | 28 | 3 | 2 | 1078 |
| 3.20174+ | 4 | 1,01700- | 1 | 3.21600+ | 4 | 7,77000- | 2 | 3.22175+ | 4 | 6,88000- | 2 | 28 | 3 | 2 | 1079 |

| | | | | | | | |
|----------|------------|------------|------------|------------|------------|--------|--------|
| 3,22757+ | 4 6,12000- | 2 3,23154+ | 4 5,84000- | 2 3,23424+ | 4 5,96000- | 2 28 3 | 2 1040 |
| 3,23608+ | 4 6,52000- | 2 3,23733+ | 4 7,57000- | 2 3,23818+ | 4 9,29000- | 2 28 3 | 2 1061 |
| 3,23876+ | 4 1,18500- | 1 3,23916+ | 4 1,53000- | 1 3,23943+ | 4 2,09700- | 1 28 3 | 2 1082 |
| 3,23961+ | 4 2,66900- | 1 3,23973+ | 4 2,79800- | 1 3,23983+ | 4 3,09480- | 1 28 3 | 2 1083 |
| 3,23992+ | 4 3,39100- | 1 3,24000+ | 4 6,00000- | 2 3,24012+ | 4-2,20800- | 1 28 3 | 2 1084 |
| 3,24026+ | 4-2,68600- | 1 3,24039+ | 4-1,81900- | 1 3,24057+ | 4-1,31800- | 1 28 3 | 2 1085 |
| 3,24084+ | 4-9,27000- | 2 3,24124+ | 4-5,50000- | 2 3,24182+ | 4-2,97000- | 2 28 3 | ? 1086 |
| 3,24267+ | 4-1,29000- | 2 3,24392+ | 4-2,60010- | 3 3,24576+ | 4 3,09990- | 3 28 3 | 2 1087 |
| 3,24846+ | 4 4,60010- | 3 3,24921+ | 4 4,50000- | 3 3,25242+ | 4 2,39990- | 3 28 3 | 2 1088 |
| 3,25825+ | 4-3,40000- | 3 3,27181+ | 4-1,64000- | 2 3,28720+ | 4-2,17000- | 2 28 3 | 2 1089 |
| 3,28801+ | 4-2,13000- | 2 3,28864+ | 4-2,08000- | 2 3,28908+ | 4-1,99000- | 2 28 3 | 2 1090 |
| 3,28937+ | 4-1,88000- | 2 3,28957+ | 4-1,72000- | 2 3,28971+ | 4-1,46000- | 2 28 3 | 2 1091 |
| 3,28980+ | 4-1,15000- | 2 3,28997+ | 4-1,13250- | 2 3,29013+ | 4-3,66000- | 2 28 3 | 2 1092 |
| 3,29020+ | 4-3,31000- | 2 3,29029+ | 4-2,97000- | 2 3,29043+ | 4-2,74000- | 2 28 3 | 2 1093 |
| 3,29063+ | 4-2,57000- | 2 3,29092+ | 4-2,45000- | 2 3,29135+ | 4-2,36000- | 2 28 3 | ? 1094 |
| 3,29199+ | 4-2,30000- | 2 3,29767+ | 4-2,05000- | 2 3,32000+ | 4-2,49000- | 2 28 3 | 2 1095 |
| 3,32855+ | 4-3,16000- | 2 3,32901+ | 4-3,13000- | 2 3,32933+ | 4-3,08000- | 2 28 3 | 2 1096 |
| 3,32954+ | 4-2,92000- | 2 3,32969+ | 4-2,71000- | 2 3,32979+ | 4-2,45000- | 2 28 3 | 2 1097 |
| 3,32997+ | 4-2,80680- | 2 3,33014+ | 4-4,92000- | 2 3,33021+ | 4-4,44000- | 2 28 3 | 2 1098 |
| 3,33031+ | 4-4,12000- | 2 3,33046+ | 4-3,93000- | 2 3,33067+ | 4-3,80000- | 2 28 3 | 2 1099 |
| 3,33099+ | 4-3,73000- | 2 3,33145+ | 4-3,69000- | 2 3,34233+ | 4-3,99000- | 2 28 3 | 2 1100 |
| 3,35734+ | 4-3,59000- | 2 3,36819+ | 4-3,14000- | 2 3,39079+ | 4-2,90000- | 2 28 3 | 2 1101 |
| 3,41330+ | 4-3,37000- | 2 3,41544+ | 4-3,29100- | 2 3,41690+ | 4-3,11200- | 2 28 3 | 2 1102 |
| 3,41789+ | 4-2,79700- | 2 3,41856+ | 4-2,29000- | 2 3,41902+ | 4-1,52000- | 2 28 3 | 2 1103 |
| 3,41933+ | 4-4,00010- | 3 3,41955+ | 4 1,38000- | 2 3,41969+ | 4 3,01000- | 2 28 3 | 2 1104 |
| 3,41979+ | 4 6,34000- | 2 3,41985+ | 4 7,42690- | 2 3,41990+ | 4 8,51000- | 2 28 3 | 2 1105 |
| 3,41997+ | 4 2,02350- | 1 3,42005+ | 4-2,51800- | 1 3,42009+ | 4-2,18270- | 1 28 3 | 2 1106 |
| 3,42014+ | 4-1,84800- | 1 3,42021+ | 4-1,50100- | 1 3,42031+ | 4-1,14300- | 1 28 3 | 2 1107 |
| 3,42045+ | 4-9,22000- | 2 3,42067+ | 4-7,76000- | 2 3,42098+ | 4-6,59000- | 2 28 3 | 2 1108 |
| 3,42144+ | 4-5,84000- | 2 3,42211+ | 4-5,33000- | 2 3,42310+ | 4-5,02200- | 2 28 3 | 2 1109 |
| 3,42456+ | 4-4,84800- | 2 3,42670+ | 4-4,79700- | 1 3,47277+ | 4-7,45800- | 2 28 3 | 2 1110 |
| 3,57320+ | 4-1,39560- | 1 3,58592+ | 4-1,46650- | 1 3,59962+ | 4-1,52220- | 1 28 3 | 2 1111 |
| 3,60294+ | 4-1,51980- | 1 3,60519+ | 4-1,50070- | 1 3,60673+ | 4-1,46200- | 1 28 3 | 2 1112 |
| 3,60777+ | 4-1,39780- | 1 3,60848+ | 4-1,29970- | 1 3,60897+ | 4-1,15010- | 1 28 3 | 2 1113 |
| 3,60930+ | 4-9,37200- | 2 3,60952+ | 4-6,76000- | 2 3,60967+ | 4-1,69000- | 2 28 3 | 2 1114 |
| 3,60978+ | 4 4,01000- | 2 3,60985+ | 4 7,96000- | 2 3,60996+ | 4 1,28910- | 1 28 3 | 2 1115 |
| 3,61007+ | 4-3,50100- | 1 3,61015+ | 4-3,63900- | 1 3,61022+ | 4-3,22700- | 1 28 3 | 2 1116 |
| 3,61033+ | 4-2,89600- | 1 3,61048+ | 4-2,63800- | 1 3,61070+ | 4-2,30520- | 1 28 3 | 2 1117 |
| 3,61103+ | 4-2,09800- | 1 3,61152+ | 4-1,95820- | 1 3,61223+ | 4-1,86090- | 1 28 3 | 2 1118 |
| 3,61327+ | 4-1,79830- | 1 3,61481+ | 4-1,76010- | 1 3,61706+ | 4-1,74090- | 1 28 3 | 2 1119 |
| 3,62038+ | 4-1,73800- | 1 3,64970+ | 4-1,86950- | 1 3,72174+ | 4-2,24340- | 1 28 3 | 2 1120 |
| 3,83724+ | 4-2,77890- | 1 3,93935+ | 4-3,22540- | 1 3,93956+ | 4-3,20680- | 1 28 3 | 2 1121 |
| 3,93970+ | 4-3,18210- | 1 3,93980+ | 4-3,14340- | 1 3,93985+ | 4-3,12130- | 1 28 3 | 2 1122 |
| 3,93991+ | 4-3,09920- | 1 3,94002+ | 4-3,37350- | 1 3,94014+ | 4-3,42790- | 1 28 3 | 2 1123 |
| 3,94020+ | 4-3,39390- | 1 3,94030+ | 4-3,36300- | 1 3,94044+ | 4-3,34390- | 1 28 3 | 2 1124 |
| 3,94205+ | 4-3,29300- | 1 4,03842+ | 4-3,69480- | 1 4,09283+ | 4-3,93230- | 1 28 3 | 2 1125 |
| 4,12680+ | 4-4,09820- | 1 4,18037+ | 4-4,40880- | 1 4,22112+ | 4-4,75370- | 1 28 3 | 2 1126 |
| 4,24886+ | 4-5,16290- | 1 4,26774+ | 4-5,71020- | 1 4,28060+ | 4-6,49150- | 1 28 3 | 2 1127 |
| 4,28935+ | 4-7,62510- | 1 4,29530+ | 4-9,20130- | 1 4,29936+ | 4-1,11060+ | 0 28 3 | 2 1128 |
| 4,30212+ | 4-1,27490+ | 0 4,30399+ | 4-1,32500+ | 0 4,30527+ | 4-1,24660+ | 0 28 3 | 2 1129 |
| 4,30614+ | 4-1,13520+ | 0 4,30600+ | 4-9,61100- | 1 4,30986+ | 4-8,85200- | 1 28 3 | 2 1130 |
| 4,31073+ | 4-7,69400- | 1 4,31388+ | 4-3,73600- | 1 4,31664+ | 4-2,50000- | 1 28 3 | 2 1131 |
| 4,32070+ | 4-2,21400- | 1 4,32665+ | 4-2,47520- | 1 4,33540+ | 4-2,91700- | 1 28 3 | 2 1132 |
| 4,34826+ | 4-3,35690- | 1 4,36714+ | 4-3,73910- | 1 4,39488+ | 4-4,06560- | 1 28 3 | 2 1133 |
| 4,43563+ | 4-4,36030- | 1 4,49549+ | 4-4,65440- | 1 4,60023+ | 4-5,03650- | 1 28 3 | 2 1134 |
| 4,73903+ | 4-5,35400- | 1 4,73955+ | 4-5,26760- | 1 4,73970+ | 4-5,19980- | 1 28 3 | 2 1135 |
| 4,73979+ | 4-5,10010- | 1 4,73985+ | 4-5,08080- | 1 4,73990+ | 4-5,06150- | 1 28 3 | 2 1136 |
| 4,73997+ | 4-5,35260- | 1 4,74004+ | 4-5,65880- | 1 4,74014+ | 4-5,85900- | 1 28 3 | 2 1137 |
| 4,74021+ | 4-5,72480- | 1 4,74030+ | 4-5,67160- | 1 4,74045+ | 4-5,60550- | 1 28 3 | 2 1138 |
| 4,74142+ | 4-5,49500- | 1 4,74450+ | 4-5,46370- | 1 4,77872+ | 4-5,43630- | 1 28 3 | 2 1139 |

| | | | | | | | | | | | | |
|----------|------------|---|----------|------------|---|----------|------------|---|----|---|---|------|
| 4,78232+ | 4-5,37900- | 1 | 4,78477+ | 4-5,28720- | 1 | 4,78644+ | 4-5,14780- | 1 | 28 | 3 | 2 | 1140 |
| 4,78758+ | 4-4,94180- | 1 | 4,78835+ | 4-4,64260- | 1 | 4,78888+ | 4-4,21550- | 1 | 28 | 3 | 2 | 1141 |
| 4,78924+ | 4-3,61860- | 1 | 4,78948+ | 4-2,93800- | 1 | 4,78965+ | 4-2,26300- | 1 | 28 | 3 | 2 | 1142 |
| 4,79284+ | 4-2,13000- | 1 | 4,78989+ | 4-2,18900- | 1 | 4,79000+ | 4-5,29100- | 1 | 28 | 3 | 2 | 1143 |
| 4,79011+ | 4-7,47700- | 1 | 4,79016+ | 4-8,51100- | 1 | 4,79035+ | 4-8,55100- | 1 | 28 | 3 | 2 | 1144 |
| 4,79052+ | 4-8,06900- | 1 | 4,79076+ | 4-7,46370- | 1 | 4,79112+ | 4-6,96540- | 1 | 28 | 3 | 2 | 1145 |
| 4,79165+ | 4-6,56480- | 1 | 4,79242+ | 4-6,27140- | 1 | 4,79356+ | 4-6,96740- | 1 | 28 | 3 | 2 | 1146 |
| 4,79283+ | 4-5,92960- | 1 | 4,79768+ | 4-5,83890- | 1 | 4,80657+ | 4-5,75110- | 1 | 28 | 3 | 2 | 1147 |
| 4,81434+ | 4-5,74100- | 1 | 4,95947+ | 4-5,98520- | 1 | 4,95964+ | 4-5,98100- | 1 | 28 | 3 | 2 | 1148 |
| 4,95975+ | 4-5,90980- | 1 | 4,95983+ | 4-5,85630- | 1 | 4,95997+ | 4-5,91660- | 1 | 28 | 3 | 2 | 1149 |
| 4,96011+ | 4-6,32860- | 1 | 4,96617+ | 4-6,29010- | 1 | 4,96025+ | 4-6,27120- | 1 | 28 | 3 | 2 | 1150 |
| 4,96036+ | 4-6,16820- | 1 | 4,96053+ | 4-6,13650- | 1 | 4,96115+ | 4-6,09810- | 1 | 28 | 3 | 2 | 1151 |
| 4,96169+ | 4-6,08840- | 1 | 5,14951+ | 4-5,98230- | 1 | 5,14967+ | 4-5,94610- | 1 | 28 | 3 | 2 | 1152 |
| 5,14977+ | 4-5,89610- | 1 | 5,14996+ | 4-5,86810- | 1 | 5,15015+ | 4-6,30910- | 1 | 28 | 3 | 2 | 1153 |
| 5,15023+ | 4-6,24230- | 1 | 5,15033+ | 4-6,16730- | 1 | 5,15049+ | 4-6,14770- | 1 | 28 | 3 | 2 | 1154 |
| 5,15105+ | 4-6,10230- | 1 | 5,15155+ | 4-6,08970- | 1 | 5,30367+ | 4-5,94170- | 1 | 28 | 3 | 2 | 1155 |
| 5,34463+ | 4-5,83850- | 1 | 5,35592+ | 4-5,75910- | 1 | 5,36361+ | 4-5,65330- | 1 | 28 | 3 | 2 | 1156 |
| 5,37241+ | 4-5,42960- | 1 | 5,37483+ | 4-5,40480- | 1 | 5,37761+ | 4-5,53610- | 1 | 28 | 3 | 2 | 1157 |
| 5,38300+ | 4-5,65830- | 1 | 5,38240+ | 4-5,69640- | 1 | 5,38759+ | 4-6,04720- | 1 | 28 | 3 | 2 | 1158 |
| 5,39116+ | 4-6,12840- | 1 | 5,47792+ | 4-5,90360- | 1 | 5,47904+ | 4-5,80550- | 1 | 28 | 3 | 2 | 1159 |
| 5,47934+ | 4-5,72140- | 1 | 5,47955+ | 4-5,59780- | 1 | 5,47970+ | 4-5,43080- | 1 | 28 | 3 | 2 | 1160 |
| 5,47979+ | 4-5,20500- | 1 | 5,47985+ | 4-4,92910- | 1 | 5,47990+ | 4-4,65460- | 1 | 28 | 3 | 2 | 1161 |
| 5,47997+ | 4-5,11200- | 1 | 5,48004+ | 4-7,60990- | 1 | 5,48014+ | 4-6,97250- | 1 | 28 | 3 | 2 | 1162 |
| 5,48021+ | 4-6,74840- | 1 | 5,48030+ | 4-6,56360- | 1 | 5,48045+ | 4-6,36580- | 1 | 28 | 3 | 2 | 1163 |
| 5,48066+ | 4-6,25090- | 1 | 5,48142+ | 4-6,10910- | 1 | 5,48306+ | 4-6,04170- | 1 | 28 | 3 | 2 | 1164 |
| 5,50164+ | 4-5,97950- | 1 | 5,62876+ | 4-5,83720- | 1 | 5,62942+ | 4-5,74720- | 1 | 28 | 3 | 2 | 1165 |
| 5,62921+ | 4-5,67890- | 1 | 5,62973+ | 4-5,59110- | 1 | 5,62982+ | 4-5,50110- | 1 | 28 | 3 | 2 | 1166 |
| 5,62997+ | 4-5,66550- | 1 | 5,63012+ | 4-6,53350- | 1 | 5,63018+ | 4-6,38860- | 1 | 28 | 3 | 2 | 1167 |
| 5,63027+ | 4-6,26520- | 1 | 5,63039+ | 4-6,16250- | 1 | 5,63057+ | 4-6,98530- | 1 | 28 | 3 | 2 | 1168 |
| 5,63084+ | 4-6,03370- | 1 | 5,63268+ | 4-5,95280- | 1 | 5,68953+ | 4-5,81970- | 1 | 28 | 3 | 2 | 1169 |
| 5,68968+ | 4-5,78210- | 1 | 5,68978+ | 4-5,73100- | 1 | 5,68997+ | 4-5,77510- | 1 | 28 | 3 | 2 | 1170 |
| 5,69015+ | 4-6,12180- | 1 | 5,69022+ | 4-6,06600- | 1 | 5,69032+ | 4-6,01470- | 1 | 28 | 3 | 2 | 1171 |
| 5,69047+ | 4-5,98010- | 1 | 5,69148+ | 4-5,92490- | 1 | 5,91933+ | 4-5,77390- | 1 | 28 | 3 | 2 | 1172 |
| 5,92231+ | 4-5,62890- | 1 | 6,20348+ | 4-5,47070- | 1 | 6,11287+ | 4-4,90160- | 1 | 28 | 3 | 2 | 1173 |
| 6,16623+ | 4-4,23543- | 1 | 6,20566+ | 4-3,70500- | 1 | 6,23674+ | 4-3,25000- | 1 | 28 | 3 | 2 | 1174 |
| 6,28800+ | 4-2,81900- | 1 | 6,33037+ | 4-2,38200- | 1 | 6,39411+ | 4-1,77600- | 1 | 28 | 3 | 2 | 1175 |
| 6,43750+ | 4-1,31600- | 1 | 6,46703+ | 4-8,18600- | 2 | 6,48714+ | 4-2,32000- | 2 | 28 | 3 | 2 | 1176 |
| 6,50082+ | 4-2,76000- | 2 | 6,51014+ | 4-4,43000- | 2 | 6,52080+ | 4-1,21000- | 2 | 28 | 3 | 2 | 1177 |
| 6,52552+ | 4-5,11000- | 2 | 6,53000+ | 4-6,61000- | 2 | 6,53920+ | 4-7,72000- | 2 | 28 | 3 | 2 | 1178 |
| 6,54986+ | 4-1,80100- | 1 | 6,55918+ | 4-2,57000- | 1 | 6,57286+ | 4-3,09900- | 1 | 28 | 3 | 2 | 1179 |
| 6,59297+ | 4-3,28700- | 1 | 6,62250+ | 4-3,30500- | 1 | 6,73752+ | 4-3,27900- | 1 | 28 | 3 | 2 | 1180 |
| 6,80984+ | 4-3,38100- | 1 | 7,05836+ | 4-3,43200- | 1 | 7,12902+ | 4-3,38900- | 1 | 28 | 3 | 2 | 1181 |
| 7,12955+ | 4-3,34400- | 1 | 7,12969+ | 4-3,30700- | 1 | 7,12979+ | 4-3,25200- | 1 | 28 | 3 | 2 | 1182 |
| 7,12997+ | 4-3,30230- | 1 | 7,13014+ | 4-3,66800- | 1 | 7,13021+ | 4-3,60100- | 1 | 28 | 3 | 2 | 1183 |
| 7,13031+ | 4-3,55100- | 1 | 7,13045+ | 4-3,51200- | 1 | 7,13143+ | 4-3,45500- | 1 | 28 | 3 | 2 | 1184 |
| 7,16288+ | 4-3,42430- | 1 | 7,53919+ | 4-3,25560- | 1 | 7,58694+ | 4-3,15770- | 1 | 28 | 3 | 2 | 1185 |
| 7,59395+ | 4-3,17100- | 1 | 7,59588+ | 4-3,19630- | 1 | 7,60000+ | 4-3,27060- | 1 | 28 | 3 | 2 | 1186 |
| 7,60889+ | 4-3,33000- | 1 | 7,70343+ | 4-3,20800- | 1 | 7,95977+ | 4-2,96820- | 1 | 28 | 3 | 2 | 1187 |
| 7,97576+ | 4-2,95150- | 1 | 8,20436+ | 4-2,64940- | 1 | 8,32579+ | 4-2,41730- | 1 | 28 | 3 | 2 | 1188 |
| 8,38283+ | 4-2,27340- | 1 | 8,54122+ | 4-1,53430- | 1 | 8,57014+ | 4-1,24600- | 1 | 28 | 3 | 2 | 1189 |
| 8,59191+ | 4-9,37200- | 2 | 8,62642+ | 4-1,05800- | 2 | 8,64992+ | 4-1,02640- | 1 | 28 | 3 | 2 | 1190 |
| 8,68591+ | 4-2,45320- | 1 | 8,67679+ | 4-3,68260- | 1 | 8,68420+ | 4-2,02170- | 1 | 28 | 3 | 2 | 1191 |
| 8,68925+ | 4-3,98110- | 1 | 8,69268+ | 4-3,22720- | 1 | 8,70000+ | 4-2,12700- | 1 | 28 | 3 | 2 | 1192 |
| 8,70732+ | 4-2,02500- | 1 | 8,71075+ | 4-1,28500- | 1 | 8,72321+ | 4-1,98617- | 1 | 28 | 3 | 2 | 1193 |
| 8,73409+ | 4-3,14840- | 1 | 8,74765+ | 4-3,49390- | 1 | 8,75008+ | 4-3,56400- | 1 | 28 | 3 | 2 | 1194 |
| 8,77358+ | 4-3,36290- | 1 | 8,80809+ | 4-3,02450- | 1 | 8,85878+ | 4-2,62380- | 1 | 28 | 3 | 2 | 1195 |
| 8,87642+ | 4-2,50670- | 1 | 8,94029+ | 4-2,12600- | 1 | 9,04267+ | 4-1,53340- | 1 | 28 | 3 | 2 | 1196 |
| 9,10401+ | 4-1,12910- | 1 | 9,16804+ | 4-5,12700- | 2 | 9,20339+ | 4-4,09100- | 2 | 28 | 3 | 2 | 1197 |
| 9,27241+ | 4-2,27400- | 2 | 9,29718+ | 4-3,45300- | 2 | 9,34277+ | 4-5,24400- | 2 | 28 | 3 | 2 | 1198 |
| 9,35000+ | 4-5,05100- | 2 | 9,40282+ | 4-3,17100- | 2 | 9,42759+ | 4-5,03400- | 2 | 28 | 3 | 2 | 1199 |

| | | | | | | | | | | | | |
|----------|------------|----|----------|------------|----|----------|------------|----|----|---|---|------|
| 9,50792+ | 4-1,34780- | 1 | 9,51745+ | 4-1,45360- | 1 | 9,59735+ | 4-1,46590- | 1 | 28 | 3 | 2 | 1200 |
| 9,59985+ | 4-1,45540- | 1 | 9,65067+ | 4-1,10990- | 1 | 9,69685+ | 4-5,35960- | 2 | 28 | 3 | 2 | 1201 |
| 9,74894+ | 4 6,45300- | 2 | 9,75550+ | 4 5,61400- | 2 | 9,78440+ | 4 2,09000- | 1 | 28 | 3 | 2 | 1202 |
| 9,00854+ | 4 3,43450- | 1 | 9,02497+ | 4 4,09660- | 1 | 9,83615+ | 4 3,95380- | 1 | 28 | 3 | 2 | 1203 |
| 9,04377+ | 4 3,33310- | 1 | 9,86600+ | 4 2,34360- | 1 | 9,87623+ | 4 2,41450- | 1 | 28 | 3 | 2 | 1204 |
| 9,68086+ | 4 2,05930- | 1 | 9,89503+ | 4 2,30700- | 2 | 9,90508+ | 4-9,97500- | 2 | 28 | 3 | 2 | 1205 |
| 9,91146+ | 4-1,60440- | 1 | 9,93560+ | 4-2,86630- | 1 | 9,95111+ | 4-3,16040- | 1 | 28 | 3 | 2 | 1206 |
| 9,97106+ | 4-3,27810- | 1 | 1,00000+ | 5-3,11070- | 1 | 1,00000+ | 5 5,99135+ | 0 | 28 | 3 | 2 | 1207 |
| .10100E | 06 ,58364E | 01 | .10200E | 06 ,49315E | 01 | .10370E | 06 ,39636E | 01 | 28 | 3 | 2 | 1208 |
| .10400E | 06 ,38107E | 01 | .10600E | 06 ,31681E | 01 | .10650E | 06 ,36325E | 01 | 28 | 3 | 2 | 1209 |
| .10670E | 06 ,30182E | 01 | .10700E | 06 ,30016E | 01 | .10720E | 06 ,42415E | 01 | 28 | 3 | 2 | 1210 |
| .10870E | 06 ,13520E | 02 | .10910E | 06 ,16004E | 02 | .11000E | 06 ,17267E | 02 | 28 | 3 | 2 | 1211 |
| .11010E | 06 ,16049E | 02 | .11070E | 06 ,12805E | 02 | .11100E | 06 ,11175E | 02 | 28 | 3 | 2 | 1212 |
| .11170E | 06 ,85104E | 01 | .11200E | 06 ,73728E | 01 | .11300E | 06 ,63606E | 01 | 28 | 3 | 2 | 1213 |
| .11400E | 06 ,57885E | 01 | .11470E | 06 ,54790E | 01 | .11570E | 06 ,50312E | 01 | 28 | 3 | 2 | 1214 |
| .11600E | 06 ,48949E | 01 | .11670E | 06 ,45944E | 01 | .11800E | 06 ,40312E | 01 | 28 | 3 | 2 | 1215 |
| .12000E | 06 ,35647E | 01 | .12020E | 06 ,35110E | 01 | .12120E | 06 ,32421E | 01 | 28 | 3 | 2 | 1216 |
| .12200E | 06 ,30493E | 01 | .12290E | 06 ,30658E | 01 | .12320E | 06 ,31891E | 01 | 28 | 3 | 2 | 1217 |
| .12400E | 06 ,36747E | 01 | .12420E | 06 ,39341E | 01 | .12500E | 06 ,49663E | 01 | 28 | 3 | 2 | 1218 |
| .12520E | 06 ,53669E | 01 | .12590E | 06 ,59692E | 01 | .12600E | 06 ,50230E | 01 | 28 | 3 | 2 | 1219 |
| .12700E | 06 ,40607E | 01 | .12720E | 06 ,39769E | 01 | .12820E | 06 ,35609E | 01 | 28 | 3 | 2 | 1220 |
| .13000E | 06 ,27868E | 01 | .13200E | 06 ,27294E | 01 | .13120E | 06 ,24476E | 01 | 28 | 3 | 2 | 1221 |
| .13300E | 06 ,19344E | 01 | .13320E | 06 ,19341E | 01 | .13500E | 06 ,19235E | 01 | 28 | 3 | 2 | 1222 |
| .13520E | 06 ,19643E | 01 | .13600E | 06 ,21343E | 01 | .13620E | 06 ,22988E | 01 | 28 | 3 | 2 | 1223 |
| .13720E | 06 ,31112E | 01 | .13800E | 06 ,37663E | 01 | .13820E | 06 ,40661E | 01 | 28 | 3 | 2 | 1224 |
| .13970E | 06 ,63248E | 01 | .14000E | 06 ,67724E | 01 | .14020E | 06 ,69277E | 01 | 28 | 3 | 2 | 1225 |
| .14100E | 06 ,77327E | 01 | .14200E | 06 ,79752E | 01 | .14300E | 06 ,12578E | 02 | 28 | 3 | 2 | 1226 |
| .14350E | 06 ,11579E | 02 | .14420E | 06 ,10461E | 02 | .14500E | 06 ,92781E | 01 | 28 | 3 | 2 | 1227 |
| .14620E | 06 ,76143E | 01 | .14700E | 06 ,65773E | 01 | .14920E | 06 ,51188E | 01 | 28 | 3 | 2 | 1228 |
| .15000E | 06 ,45815E | 01 | .15020E | 06 ,44736E | 01 | .15300E | 06 ,29949E | 01 | 28 | 3 | 2 | 1229 |
| .15320E | 06 ,28759E | 01 | .15400E | 06 ,23945E | 01 | .15500E | 06 ,21927E | 01 | 28 | 3 | 2 | 1230 |
| .15600E | 06 ,31910E | 01 | .15670E | 06 ,54998E | 01 | .15700E | 06 ,64895E | 01 | 28 | 3 | 2 | 1231 |
| .15800E | 06 ,86885E | 01 | .15870E | 06 ,92475E | 01 | .15900E | 06 ,94863E | 01 | 28 | 3 | 2 | 1232 |
| .16000E | 06 ,93312E | 01 | .16070E | 06 ,89577E | 01 | .16200E | 06 ,81711E | 01 | 28 | 3 | 2 | 1233 |
| .16270E | 06 ,77475E | 01 | .16400E | 06 ,69772E | 01 | .16570E | 06 ,61398E | 01 | 28 | 3 | 2 | 1234 |
| .16640E | 06 ,59893E | 01 | .16770E | 06 ,53154E | 01 | .16800E | 06 ,51953E | 01 | 28 | 3 | 2 | 1235 |
| .16900E | 06 ,51798E | 01 | .17000E | 06 ,54344E | 01 | .17100E | 06 ,57344E | 01 | 28 | 3 | 2 | 1236 |
| .17200E | 06 ,55744E | 01 | .17500E | 06 ,47600E | 01 | .18000E | 06 ,35895E | 01 | 28 | 3 | 2 | 1237 |
| .18300E | 06 ,43555E | 01 | .18380E | 06 ,27733E | 01 | .18440E | 06 ,44661E | 01 | 28 | 3 | 2 | 1238 |
| .18650E | 06 ,32444E | 01 | .18740E | 06 ,47551E | 01 | .18860E | 06 ,36008E | 01 | 28 | 3 | 2 | 1239 |
| .19000E | 06 ,35396E | 01 | .19010E | 06 ,35353E | 01 | .19080E | 06 ,39382E | 01 | 28 | 3 | 2 | 1240 |
| .19270E | 06 ,11586E | 02 | .19260E | 06 ,11756E | 02 | .19360E | 06 ,84699E | 01 | 28 | 3 | 2 | 1241 |
| .19510E | 06 ,40307E | 01 | .19590E | 06 ,35916E | 01 | .19670E | 06 ,40725E | 01 | 28 | 3 | 2 | 1242 |
| .19750E | 06 ,56914E | 01 | .19800E | 06 ,64513E | 01 | .19810E | 06 ,66034E | 01 | 28 | 3 | 2 | 1243 |
| .19900E | 06 ,48318E | 01 | .20290E | 06 ,23487E | 01 | .20490E | 06 ,44727E | 01 | 28 | 3 | 2 | 1244 |
| .20500E | 06 ,47817E | 01 | .20690E | 06 ,76716E | 01 | .20650E | 06 ,94163E | 01 | 28 | 3 | 2 | 1245 |
| .20730E | 06 ,13499E | 02 | .20800E | 06 ,96953E | 01 | .20970E | 06 ,10309E | 02 | 28 | 3 | 2 | 1246 |
| .21000E | 06 ,10260E | 02 | .21160E | 06 ,99993E | 01 | .21480E | 06 ,77032E | 01 | 28 | 3 | 2 | 1247 |
| .21560E | 06 ,82952E | 01 | .21600E | 06 ,89116E | 01 | .21650E | 06 ,96803E | 01 | 28 | 3 | 2 | 1248 |
| .21750E | 06 ,73090E | 01 | .21950E | 06 ,56474E | 01 | .22000E | 06 ,63514E | 01 | 28 | 3 | 2 | 1249 |
| .22070E | 06 ,73378E | 01 | .22160E | 06 ,52715E | 01 | .22400E | 06 ,40104E | 01 | 28 | 3 | 2 | 1250 |
| .22500E | 06 ,34833E | 01 | .22560E | 06 ,31672E | 01 | .22830E | 06 ,15051E | 01 | 28 | 3 | 2 | 1251 |
| .23010E | 06 ,18267E | 01 | .23200E | 06 ,44966E | 01 | .23260E | 06 ,53406E | 01 | 28 | 3 | 2 | 1252 |
| .23450E | 06 ,97331E | 01 | .23650E | 06 ,93745E | 01 | .24000E | 06 ,73301E | 01 | 28 | 3 | 2 | 1253 |
| .24080E | 06 ,68614E | 01 | .24260E | 06 ,72718E | 01 | .24410E | 06 ,57014E | 01 | 28 | 3 | 2 | 1254 |
| .24600E | 06 ,76376E | 01 | .24710E | 06 ,61327E | 01 | .24770E | 06 ,62662E | 01 | 28 | 3 | 2 | 1255 |
| .25100E | 06 ,44144E | 01 | .25200E | 06 ,42615E | 01 | .25470E | 06 ,30444E | 01 | 28 | 3 | 2 | 1256 |
| .25500E | 06 ,41888E | 01 | .25620E | 06 ,55464E | 01 | .25700E | 06 ,40238E | 01 | 28 | 3 | 2 | 1257 |
| .25790E | 06 ,63542E | 01 | .25800E | 06 ,63788E | 01 | .25870E | 06 ,65525E | 01 | 28 | 3 | 2 | 1258 |
| .26200E | 06 ,46942E | 01 | .26460E | 06 ,34005E | 01 | .26590E | 06 ,33902E | 01 | 28 | 3 | 2 | 1259 |

| | | | | | | | | | | | | | | |
|--------|----|-------|----|-------|----|-------|----|--------|----|-------|----|-----|---|------|
| 22610E | 05 | 3520E | 01 | 2670E | 06 | 2712E | 01 | 26720E | 06 | 1668E | 01 | 283 | 2 | 1269 |
| 22610E | 05 | 1694E | 01 | 2697E | 06 | 2310E | 01 | 26930E | 06 | 1959E | 01 | 283 | 2 | 1261 |
| 22610E | 05 | 2240E | 01 | 2720E | 06 | 3690E | 06 | 27340E | 06 | 7791E | 01 | 283 | 2 | 1262 |
| 22610E | 05 | 6252E | 01 | 2750E | 06 | 7964E | 01 | 27560E | 06 | 7576E | 01 | 283 | 2 | 1263 |
| 22610E | 05 | 7315E | 01 | 2775E | 06 | 6411E | 01 | 27820E | 06 | 8676E | 01 | 283 | 2 | 1264 |
| 22610E | 05 | 5347E | 01 | 2808E | 06 | 2166E | 01 | 28180E | 06 | 7670E | 01 | 283 | 2 | 1265 |
| 22610E | 05 | 9395E | 01 | 2840E | 06 | 7581E | 01 | 28410E | 06 | 7417E | 01 | 283 | 2 | 1266 |
| 22610E | 05 | 5373E | 01 | 2853E | 06 | 7823E | 01 | 28640E | 06 | 5921E | 01 | 283 | 2 | 1267 |
| 22610E | 05 | 5947E | 01 | 2880E | 06 | 5510E | 01 | 28660E | 06 | 5967E | 01 | 283 | 2 | 1268 |
| 22610E | 05 | 5155E | 01 | 2900E | 06 | 4952E | 01 | 28840E | 06 | 4961E | 01 | 283 | 2 | 1269 |
| 22610E | 05 | 4948E | 01 | 3013E | 06 | 4261E | 01 | 3020E | 06 | 4093E | 01 | 283 | 2 | 1270 |
| 22610E | 05 | 3495E | 01 | 3040E | 06 | 2247E | 01 | 3050E | 06 | 3180E | 01 | 283 | 2 | 1271 |
| 22610E | 05 | 5380E | 01 | 3068E | 06 | 6585E | 01 | 3080E | 06 | 4726E | 01 | 283 | 2 | 1272 |
| 22610E | 05 | 3780E | 01 | 3140E | 06 | 6526E | 01 | 31140E | 06 | 4023E | 01 | 283 | 2 | 1273 |
| 22610E | 05 | 3479E | 01 | 3140E | 06 | 3500E | 01 | 31450E | 06 | 3235E | 01 | 283 | 2 | 1274 |
| 22610E | 05 | 4381E | 01 | 3140E | 06 | 3190E | 01 | 31520E | 06 | 4962E | 01 | 283 | 2 | 1275 |
| 22610E | 05 | 3297E | 01 | 3153E | 06 | 3190E | 01 | 32350E | 06 | 1316E | 01 | 283 | 2 | 1276 |
| 22610E | 05 | 3494E | 01 | 3210E | 06 | 2893E | 01 | 32350E | 06 | 1316E | 01 | 283 | 2 | 1277 |
| 22610E | 05 | 1725E | 01 | 3251E | 06 | 5662E | 01 | 3260E | 06 | 6731E | 01 | 283 | 2 | 1278 |
| 22610E | 05 | 7515E | 01 | 3250E | 06 | 6242E | 01 | 3290E | 06 | 7633E | 01 | 283 | 2 | 1279 |
| 22610E | 05 | 6651E | 01 | 3312E | 06 | 5471E | 01 | 3300E | 06 | 4745E | 01 | 283 | 2 | 1280 |
| 22610E | 05 | 5012E | 01 | 3366E | 06 | 7453E | 01 | 33590E | 06 | 4911E | 01 | 283 | 2 | 1281 |
| 22610E | 05 | 3579E | 01 | 3382E | 06 | 4002E | 01 | 33940E | 06 | 4858E | 01 | 283 | 2 | 1282 |
| 22610E | 05 | 4924E | 01 | 3460E | 06 | 5591E | 01 | 3470E | 06 | 4413E | 01 | 283 | 2 | 1283 |
| 22610E | 05 | 4043E | 01 | 3460E | 06 | 3967E | 01 | 3470E | 06 | 2618E | 01 | 283 | 2 | 1284 |
| 22610E | 05 | 2621E | 01 | 3500E | 06 | 6409E | 01 | 35390E | 06 | 5951E | 01 | 283 | 2 | 1285 |
| 22610E | 05 | 3907E | 01 | 3571E | 06 | 4951E | 01 | 35790E | 06 | 6897E | 01 | 283 | 2 | 1286 |
| 22610E | 05 | 6944E | 01 | 3579E | 06 | 8183E | 01 | 3600E | 06 | 7380E | 01 | 283 | 2 | 1287 |
| 22610E | 05 | 4732E | 01 | 3622E | 06 | 4149E | 01 | 36450E | 06 | 4278E | 01 | 283 | 2 | 1288 |
| 22610E | 05 | 3360E | 01 | 3634E | 06 | 3554E | 01 | 3700E | 06 | 3471E | 01 | 283 | 2 | 1289 |
| 22610E | 05 | 3404E | 01 | 3640E | 06 | 3255E | 01 | 37450E | 06 | 2768E | 01 | 283 | 2 | 1290 |
| 22610E | 05 | 2474E | 01 | 3734E | 06 | 4146E | 01 | 37850E | 06 | 5375E | 01 | 283 | 2 | 1291 |
| 22610E | 05 | 6944E | 01 | 3769E | 06 | 4911E | 01 | 38180E | 06 | 3753E | 01 | 283 | 2 | 1292 |
| 22610E | 05 | 2971E | 01 | 3800E | 06 | 4304E | 01 | 38620E | 06 | 2955E | 01 | 283 | 2 | 1293 |
| 22610E | 05 | 3165E | 01 | 3830E | 06 | 2635E | 01 | 39110E | 06 | 3452E | 01 | 283 | 2 | 1294 |
| 22610E | 05 | 2597E | 01 | 3934E | 06 | 5568E | 01 | 39890E | 06 | 5117E | 01 | 283 | 2 | 1295 |
| 22610E | 05 | 4097E | 01 | 4019E | 06 | 2333E | 01 | 40580E | 06 | 1966E | 01 | 283 | 2 | 1296 |
| 22610E | 05 | 1425E | 01 | 4130E | 06 | 1913E | 01 | 41160E | 06 | 2893E | 01 | 283 | 2 | 1297 |
| 22610E | 05 | 4610E | 01 | 4122E | 06 | 3733E | 01 | 41750E | 06 | 3371E | 01 | 283 | 2 | 1298 |
| 22610E | 05 | 6102E | 01 | 4233E | 06 | 4221E | 01 | 42160E | 06 | 1745E | 01 | 283 | 2 | 1299 |
| 22610E | 05 | 1657E | 01 | 4259E | 06 | 5091E | 01 | 42680E | 06 | 6099E | 01 | 283 | 2 | 1300 |
| 22610E | 05 | 3672E | 01 | 4276E | 06 | 3123E | 01 | 42870E | 06 | 5094E | 01 | 283 | 2 | 1301 |
| 22610E | 05 | 6228E | 01 | 4306E | 06 | 5903E | 01 | 43070E | 06 | 5535E | 01 | 283 | 2 | 1302 |
| 22610E | 05 | 5252E | 01 | 4330E | 06 | 5542E | 01 | 43400E | 06 | 5724E | 01 | 283 | 2 | 1303 |
| 22610E | 05 | 7165E | 01 | 4364E | 06 | 6390E | 01 | 4374E | 06 | 5383E | 01 | 283 | 2 | 1304 |
| 22610E | 05 | 6348E | 01 | 4394E | 06 | 6064E | 01 | 44010E | 06 | 5224E | 01 | 283 | 2 | 1305 |
| 22610E | 05 | 4416E | 01 | 4425E | 06 | 4763E | 01 | 44390E | 06 | 4469E | 01 | 283 | 2 | 1306 |
| 22610E | 05 | 4215E | 01 | 4477E | 06 | 4247E | 01 | 4495E | 06 | 4947E | 01 | 283 | 2 | 1307 |
| 22610E | 05 | 4025E | 01 | 4516E | 06 | 4443E | 01 | 4527E | 06 | 3676E | 01 | 283 | 2 | 1308 |
| 22610E | 05 | 2035E | 01 | 4544E | 06 | 2260E | 01 | 45660E | 06 | 6112E | 01 | 283 | 2 | 1309 |
| 22610E | 05 | 6J22E | 01 | 4544E | 06 | 5116E | 01 | 45910E | 06 | 6854E | 01 | 283 | 2 | 1310 |
| 22610E | 05 | 4562E | 01 | 4613E | 06 | 3743E | 01 | 46210E | 06 | 3374E | 01 | 283 | 2 | 1311 |
| 22610E | 05 | 5478E | 01 | 4646E | 06 | 5314E | 01 | 46650E | 06 | 4556E | 01 | 283 | 2 | 1312 |
| 22610E | 05 | 4530E | 01 | 4702E | 06 | 3514E | 01 | 4710E | 06 | 4450E | 01 | 283 | 2 | 1313 |
| 22610E | 05 | 4371E | 01 | 4740E | 06 | 3957E | 01 | 4763E | 06 | 5220E | 01 | 283 | 2 | 1314 |
| 22610E | 05 | 3479E | 01 | 4794E | 06 | 3612E | 01 | 4810E | 06 | 3943E | 01 | 283 | 2 | 1315 |
| 22610E | 05 | 2910E | 01 | 4849E | 06 | 2783E | 01 | 48570E | 06 | 2805E | 01 | 283 | 2 | 1316 |
| 22610E | 05 | 4255E | 01 | 4881E | 06 | 4676E | 01 | 48970E | 06 | 2929E | 01 | 283 | 2 | 1317 |
| 22610E | 05 | 4135E | 01 | 4933E | 06 | 3849E | 01 | 49490E | 06 | 1786E | 01 | 283 | 2 | 1318 |
| 22610E | 05 | 2107E | 01 | 4966E | 06 | 4828E | 01 | 49820E | 06 | 4582E | 01 | 283 | 2 | 1319 |

| | | | | | | | | | | | | | | | |
|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|----|---|---|------|
| .4990E | 06 | .49361E | 01 | .4990E | 06 | .4060E | 01 | .50010E | 06 | .42171E | 01 | 28 | 3 | 2 | 1320 |
| .5010E | 06 | .49270E | 01 | .5020E | 06 | .43570E | 01 | .50340E | 06 | .48470E | 01 | 28 | 3 | 2 | 1321 |
| .5040E | 06 | .49169E | 01 | .50540E | 06 | .30169E | 01 | .50630E | 06 | .29368E | 01 | 28 | 3 | 2 | 1322 |
| .50720E | 06 | .31466E | 01 | .50790E | 06 | .51708E | 01 | .50820E | 06 | .53468E | 01 | 28 | 3 | 2 | 1323 |
| .50870E | 06 | .54568E | 01 | .5090E | 06 | .5776E | 01 | .50930E | 06 | .48767E | 01 | 28 | 3 | 2 | 1324 |
| .50980E | 06 | .43867E | 01 | .5100E | 06 | .45747E | 01 | .51030E | 06 | .48567E | 01 | 28 | 3 | 2 | 1325 |
| .5100E | 06 | .50767E | 01 | .51140E | 06 | .48660E | 01 | .51170E | 06 | .46166E | 01 | 28 | 3 | 2 | 1326 |
| .51240E | 06 | .49466E | 01 | .51310E | 06 | .5976E | 01 | .51370E | 06 | .45566E | 01 | 28 | 3 | 2 | 1327 |
| .51470E | 06 | .30569E | 01 | .5144E | 06 | .35269E | 01 | .51560E | 06 | .38969E | 01 | 28 | 3 | 2 | 1328 |
| .5160E | 06 | .49664E | 01 | .5153E | 06 | .41469E | 01 | .51690E | 06 | .37669E | 01 | 28 | 3 | 2 | 1329 |
| .51740E | 06 | .34869E | 01 | .5190E | 06 | .38369E | 01 | .51650E | 06 | .30370E | 01 | 28 | 3 | 2 | 1330 |
| .51920E | 06 | .29470E | 01 | .5190E | 06 | .24170E | 01 | .52050E | 06 | .24679E | 01 | 28 | 3 | 2 | 1331 |
| .52140E | 06 | .29571E | 01 | .52210E | 06 | .22671E | 01 | .52250E | 06 | .23471E | 01 | 28 | 3 | 2 | 1332 |
| .52320E | 06 | .34371E | 01 | .5220E | 06 | .50371E | 01 | .52430E | 06 | .53871E | 01 | 28 | 3 | 2 | 1333 |
| .52490E | 06 | .44472E | 01 | .52340E | 06 | .40372E | 01 | .52630E | 06 | .34672E | 01 | 28 | 3 | 2 | 1334 |
| .52690E | 06 | .34772E | 01 | .52760E | 06 | .42372E | 01 | .52780E | 06 | .47372E | 01 | 28 | 3 | 2 | 1335 |
| .52840E | 06 | .49573E | 01 | .52910E | 06 | .47673E | 01 | .52990E | 06 | .51973E | 01 | 28 | 3 | 2 | 1336 |
| .53060E | 06 | .51466E | 01 | .53130E | 06 | .44673E | 01 | .53210E | 06 | .41374E | 01 | 28 | 3 | 2 | 1337 |
| .53300E | 06 | .39573E | 01 | .5320E | 06 | .37074E | 01 | .53660E | 06 | .34775E | 01 | 28 | 3 | 2 | 1338 |
| .53720E | 06 | .35175E | 01 | .5370E | 06 | .36575E | 01 | .53850E | 06 | .36776E | 01 | 28 | 3 | 2 | 1339 |
| .53970E | 06 | .31176E | 01 | .54020E | 06 | .28276E | 01 | .54680E | 06 | .30076E | 01 | 28 | 3 | 2 | 1340 |
| .54120E | 06 | .38876E | 01 | .54160E | 06 | .45877E | 01 | .54250E | 06 | .39377E | 01 | 28 | 3 | 2 | 1341 |
| .54350E | 06 | .34777E | 01 | .54490E | 06 | .31477E | 01 | .54700E | 06 | .27178E | 01 | 28 | 3 | 2 | 1342 |
| .54900E | 06 | .24979E | 01 | .5490E | 06 | .23979E | 01 | .55070E | 06 | .26679E | 01 | 28 | 3 | 2 | 1343 |
| .55130E | 06 | .20379E | 01 | .55250E | 06 | .24680E | 01 | .55310E | 06 | .29980E | 01 | 28 | 3 | 2 | 1344 |
| .55370E | 06 | .49280E | 01 | .55410E | 06 | .48180E | 01 | .55470E | 06 | .51880E | 01 | 28 | 3 | 2 | 1345 |
| .55510E | 06 | .44981E | 01 | .55590E | 06 | .4581E | 01 | .55650E | 06 | .29481E | 01 | 28 | 3 | 2 | 1346 |
| .55730E | 06 | .23881E | 01 | .55810E | 06 | .19581E | 01 | .55870E | 06 | .19482E | 01 | 28 | 3 | 2 | 1347 |
| .55910E | 06 | .42582E | 01 | .5590E | 06 | .34682E | 01 | .55990E | 06 | .41282E | 01 | 28 | 3 | 2 | 1348 |
| .56030E | 06 | .28882E | 01 | .56090E | 06 | .31482E | 01 | .56150E | 06 | .24282E | 01 | 28 | 3 | 2 | 1349 |
| .56260E | 06 | .16683E | 01 | .56360E | 06 | .17183E | 01 | .56460E | 06 | .17183E | 01 | 28 | 3 | 2 | 1350 |
| .56580E | 06 | .13684E | 01 | .56710E | 06 | .25384E | 01 | .56770E | 06 | .39984E | 01 | 28 | 3 | 2 | 1351 |
| .56890E | 06 | .35085E | 01 | .5690E | 06 | .38585E | 01 | .57040E | 06 | .46485E | 01 | 28 | 3 | 2 | 1352 |
| .57250E | 06 | .45086E | 01 | .57310E | 06 | .45786E | 01 | .57370E | 06 | .46586E | 01 | 28 | 3 | 2 | 1353 |
| .57480E | 06 | .49386E | 01 | .57590E | 06 | .50386E | 01 | .57540E | 06 | .57387E | 01 | 28 | 3 | 2 | 1354 |
| .57560E | 06 | .58987E | 01 | .5760E | 06 | .51587E | 01 | .57670E | 06 | .45687E | 01 | 28 | 3 | 2 | 1355 |
| .57700E | 06 | .43787E | 01 | .57730E | 06 | .41787E | 01 | .57790E | 06 | .46887E | 01 | 28 | 3 | 2 | 1356 |
| .57840E | 06 | .41887E | 01 | .5790E | 06 | .36588E | 01 | .58010E | 06 | .32488E | 01 | 28 | 3 | 2 | 1357 |
| .58070E | 06 | .29988E | 01 | .58130E | 06 | .30588E | 01 | .58220E | 06 | .34989E | 01 | 28 | 3 | 2 | 1358 |
| .58310E | 06 | .30089E | 01 | .58390E | 06 | .25089E | 01 | .58460E | 06 | .25789E | 01 | 28 | 3 | 2 | 1359 |
| .58560E | 06 | .26489E | 01 | .5850E | 06 | .21890E | 01 | .58610E | 06 | .18690E | 01 | 28 | 3 | 2 | 1360 |
| .58670E | 06 | .19890E | 01 | .58740E | 06 | .22490E | 01 | .58800E | 06 | .19190E | 01 | 28 | 3 | 2 | 1361 |
| .58870E | 06 | .23790E | 01 | .58930E | 06 | .33691E | 01 | .59060E | 06 | .40791E | 01 | 28 | 3 | 2 | 1362 |
| .59040E | 06 | .41391E | 01 | .59110E | 06 | .34091E | 01 | .59150E | 06 | .35691E | 01 | 28 | 3 | 2 | 1363 |
| .59240E | 06 | .25992E | 01 | .59330E | 06 | .20992E | 01 | .59420E | 06 | .18592E | 01 | 28 | 3 | 2 | 1364 |
| .59460E | 06 | .16092E | 01 | .59530E | 06 | .20492E | 01 | .59550E | 06 | .20993E | 01 | 28 | 3 | 2 | 1365 |
| .59590E | 06 | .21693E | 01 | .59660E | 06 | .21093E | 01 | .59730E | 06 | .18893E | 01 | 28 | 3 | 2 | 1366 |
| .59790E | 06 | .13193E | 01 | .59880E | 06 | .14493E | 01 | .60000E | 06 | .18794E | 01 | 28 | 3 | 2 | 1367 |
| .60060E | 06 | .25594E | 01 | .60110E | 06 | .33794E | 01 | .60130E | 06 | .35894E | 01 | 28 | 3 | 2 | 1368 |
| .60180E | 06 | .31694E | 01 | .60220E | 06 | .30494E | 01 | .60310E | 06 | .38694E | 01 | 28 | 3 | 2 | 1369 |
| .60360E | 06 | .49394E | 01 | .60420E | 06 | .52094E | 01 | .60510E | 06 | .42794E | 01 | 28 | 3 | 2 | 1370 |
| .60560E | 06 | .41394E | 01 | .60610E | 06 | .46694E | 01 | .60650E | 06 | .52794E | 01 | 28 | 3 | 2 | 1371 |
| .60700E | 06 | .54494E | 01 | .60720E | 06 | .58994E | 01 | .60770E | 06 | .53994E | 01 | 28 | 3 | 2 | 1372 |
| .60810E | 06 | .51294E | 01 | .60860E | 06 | .52094E | 01 | .60990E | 06 | .55594E | 01 | 28 | 3 | 2 | 1373 |
| .60930E | 06 | .57894E | 01 | .60970E | 06 | .54694E | 01 | .61060E | 06 | .59794E | 01 | 28 | 3 | 2 | 1374 |
| .61160E | 06 | .49994E | 01 | .61340E | 06 | .39694E | 01 | .61480E | 06 | .32894E | 01 | 28 | 3 | 2 | 1375 |
| .61600E | 06 | .31794E | 01 | .61780E | 06 | .33094E | 01 | .61880E | 06 | .36994E | 01 | 28 | 3 | 2 | 1376 |
| .61970E | 06 | .42595E | 01 | .62070E | 06 | .46595E | 01 | .62110E | 06 | .46295E | 01 | 28 | 3 | 2 | 1377 |
| .62180E | 06 | .40595E | 01 | .62250E | 06 | .31495E | 01 | .62330E | 06 | .29295E | 01 | 28 | 3 | 2 | 1378 |
| .62420E | 06 | .31895E | 01 | .62490E | 06 | .34895E | 01 | .62540E | 06 | .34195E | 01 | 28 | 3 | 2 | 1379 |

| | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|----|---|---|------|
| .62550E 06 | .33655E 01 | .62640E 06 | .48295E 01 | .62680E 06 | .53095E 01 | 28 | 3 | 2 | 1360 |
| .62720E 06 | .33695E 01 | .62650E 06 | .51095E 01 | .62900E 06 | .27666E 01 | 28 | 3 | 2 | 1381 |
| .62920E 06 | .26295E 01 | .63000E 06 | .23495E 01 | .63070E 06 | .29595E 01 | 28 | 3 | 2 | 1382 |
| .63120E 06 | .33995E 01 | .63190E 06 | .41495E 01 | .63210E 06 | .43995E 01 | 28 | 3 | 2 | 1383 |
| .63290E 06 | .39355E 01 | .63340E 06 | .52195E 01 | .63380E 06 | .24695E 01 | 28 | 3 | 2 | 1384 |
| .63430E 06 | .29695E 01 | .63460E 06 | .31895E 01 | .63530E 06 | .34695E 01 | 28 | 3 | 2 | 1385 |
| .63580E 06 | .30695E 01 | .63480E 06 | .32195E 01 | .63750E 06 | .34695E 01 | 28 | 3 | 2 | 1396 |
| .63620E 06 | .37795E 01 | .63950E 06 | .49695E 01 | .64000E 06 | .52495E 01 | 28 | 3 | 2 | 1387 |
| .64050E 06 | .43195E 01 | .64170E 06 | .46595E 01 | .64320E 06 | .46195E 01 | 28 | 3 | 2 | 1388 |
| .64520E 06 | .46255E 01 | .64590E 06 | .42395E 01 | .64720E 06 | .35795E 01 | 28 | 3 | 2 | 1389 |
| .64620E 06 | .38495E 01 | .64900E 06 | .45095E 01 | .64950E 06 | .53796E 01 | 28 | 3 | 2 | 1390 |
| .65000E 06 | .57796E 01 | .65020E 06 | .59396E 01 | .65120E 06 | .49796E 01 | 28 | 3 | 2 | 1391 |
| .65200E 06 | .39796E 01 | .65280E 06 | .35796E 01 | .65380E 06 | .37796E 01 | 28 | 3 | 2 | 1392 |
| .65430E 06 | .42596E 01 | .65450E 06 | .44596E 01 | .65560E 06 | .35696E 01 | 28 | 3 | 2 | 1393 |
| .65610E 06 | .30496E 01 | .65740E 06 | .20396E 01 | .65840E 06 | .19796E 01 | 28 | 3 | 2 | 1394 |
| .65920E 06 | .22396E 01 | .65970E 06 | .29196E 01 | .66020E 06 | .3F796E 01 | 28 | 3 | 2 | 1395 |
| .66070E 06 | .46496E 01 | .66120E 06 | .47896E 01 | .66230E 06 | .34596E 01 | 28 | 3 | 2 | 1396 |
| .66310E 06 | .32196E 01 | .66380E 06 | .29596E 01 | .66440E 06 | .34496E 01 | 28 | 3 | 2 | 1397 |
| .66510E 06 | .33496E 01 | .66590E 06 | .25696E 01 | .66670E 06 | .20996E 01 | 28 | 3 | 2 | 1398 |
| .66750E 06 | .30496E 01 | .66600E 06 | .20496E 01 | .66860E 06 | .26596E 01 | 28 | 3 | 2 | 1399 |
| .66940E 06 | .26696E 01 | .67000E 06 | .36371E 01 | .67020E 06 | .39796E 01 | 28 | 3 | 2 | 1400 |
| .67070E 06 | .42996E 01 | .67120E 06 | .38096E 01 | .67170E 06 | .41396E 01 | 28 | 3 | 2 | 1401 |
| .67250E 06 | .43896E 01 | .67360E 06 | .45996E 01 | .67410E 06 | .46396E 01 | 28 | 3 | 2 | 1402 |
| .67490E 06 | .50796E 01 | .67570E 06 | .47596E 01 | .67650E 06 | .47696E 01 | 28 | 3 | 2 | 1403 |
| .67740E 06 | .44296E 01 | .67820E 06 | .37296E 01 | .67870E 06 | .34296E 01 | 28 | 3 | 2 | 1404 |
| .67950E 06 | .35496E 01 | .68000E 06 | .37632E 01 | .68060E 06 | .40196E 01 | 28 | 3 | 2 | 1405 |
| .68170E 06 | .46296E 01 | .68250E 06 | .38596E 01 | .68330E 06 | .41796E 01 | 28 | 3 | 2 | 1406 |
| .68430E 06 | .43096E 01 | .68520E 06 | .39997E 01 | .68600E 06 | .39697E 01 | 28 | 3 | 2 | 1407 |
| .68690E 06 | .35097E 01 | .68770E 06 | .35697E 01 | .68850E 06 | .34097E 01 | 28 | 3 | 2 | 1408 |
| .68930E 06 | .48697E 01 | .68950E 06 | .43297E 01 | .69000E 06 | .44514E 01 | 28 | 3 | 2 | 1409 |
| .69050E 06 | .50597E 01 | .69130E 06 | .43497E 01 | .69180E 06 | .48397E 01 | 28 | 3 | 2 | 1410 |
| .69240E 06 | .39997E 01 | .69300E 06 | .40697E 01 | .69380E 06 | .29797E 01 | 28 | 3 | 2 | 1411 |
| .69430E 06 | .25497E 01 | .69490E 06 | .27397E 01 | .69570E 06 | .37397E 01 | 28 | 3 | 2 | 1412 |
| .69600E 06 | .45397E 01 | .69560E 06 | .32897E 01 | .69740E 06 | .21997E 01 | 28 | 3 | 2 | 1413 |
| .69800E 06 | .20097E 01 | .69860E 06 | .19497E 01 | .69910E 06 | .24897E 01 | 28 | 3 | 2 | 1414 |
| .69970E 06 | .37397E 01 | .70000E 06 | .39197E 01 | .70080E 06 | .43497E 01 | 28 | 3 | 2 | 1415 |
| .70170E 06 | .48597E 01 | .70250E 06 | .52597E 01 | .70310E 06 | .51297E 01 | 28 | 3 | 2 | 1416 |
| .70450E 06 | .36897E 01 | .70540E 06 | .34997E 01 | .70620E 06 | .39997E 01 | 28 | 3 | 2 | 1417 |
| .70680E 06 | .47397E 01 | .70770E 06 | .45297E 01 | .70910E 06 | .38697E 01 | 28 | 3 | 2 | 1418 |
| .70970E 06 | .27497E 01 | .71030E 06 | .27297E 01 | .71080E 06 | .26597E 01 | 28 | 3 | 2 | 1419 |
| .71140E 06 | .23597E 01 | .71200E 06 | .28197E 01 | .71310E 06 | .30597E 01 | 28 | 3 | 2 | 1420 |
| .71370E 06 | .29797E 01 | .71460E 06 | .29397E 01 | .71610E 06 | .22197E 01 | 28 | 3 | 2 | 1421 |
| .71720E 06 | .17697E 01 | .71570E 06 | .18697E 01 | .71960E 06 | .23397E 01 | 28 | 3 | 2 | 1422 |
| .72060E 06 | .32897E 01 | .72100E 06 | .34597E 01 | .72190E 06 | .35397E 01 | 28 | 3 | 2 | 1423 |
| .72260E 06 | .34797E 01 | .72430E 06 | .27897E 01 | .72520E 06 | .28097E 01 | 28 | 3 | 2 | 1424 |
| .72670E 06 | .31297E 01 | .72730E 06 | .31797E 01 | .72880E 06 | .27397E 01 | 28 | 3 | 2 | 1425 |
| .72900E 06 | .26647E 01 | .73000E 06 | .22897E 01 | .73060E 06 | .22897E 01 | 28 | 3 | 2 | 1426 |
| .73120E 06 | .25597E 01 | .73130E 06 | .25897E 01 | .73240E 06 | .21397E 01 | 28 | 3 | 2 | 1427 |
| .73300E 06 | .22497E 01 | .73360E 06 | .28397E 01 | .73420E 06 | .22897E 01 | 28 | 3 | 2 | 1428 |
| .73520E 06 | .14397E 01 | .73640E 06 | .11497E 01 | .73730E 06 | .15997E 01 | 28 | 3 | 2 | 1429 |
| .73790E 06 | .19397E 01 | .73910E 06 | .30197E 01 | .73970E 06 | .26597E 01 | 28 | 3 | 2 | 1430 |
| .74030E 06 | .24497E 01 | .74160E 06 | .19398E 01 | .74160E 06 | .14698E 01 | 28 | 3 | 2 | 1431 |
| .74220E 06 | .11798E 01 | .74230E 06 | .11298E 01 | .74340E 06 | .14898E 01 | 28 | 3 | 2 | 1432 |
| .74440E 06 | .24098E 01 | .74500E 06 | .26298E 01 | .74530E 06 | .22298E 01 | 28 | 3 | 2 | 1433 |
| .74590E 06 | .23798E 01 | .74620E 06 | .23598E 01 | .74810E 06 | .27798E 01 | 28 | 3 | 2 | 1434 |
| .74870E 06 | .25398E 01 | .74900E 06 | .25798E 01 | .74930E 06 | .26598E 01 | 28 | 3 | 2 | 1435 |
| .74970E 06 | .29298E 01 | .75000E 06 | .29148E 01 | .75030E 06 | .26998E 01 | 28 | 3 | 2 | 1436 |
| .75120E 06 | .35998E 01 | .75150E 06 | .37198E 01 | .75190E 06 | .36098E 01 | 28 | 3 | 2 | 1437 |
| .75310E 06 | .26898E 01 | .75370E 06 | .26398E 01 | .75440E 06 | .29698E 01 | 28 | 3 | 2 | 1438 |
| .75660E 06 | .36298E 01 | .75720E 06 | .40498E 01 | .75760E 06 | .39198E 01 | 28 | 3 | 2 | 1439 |

| | | | | | | |
|------------|------------|------------|------------|------------|------------|------|
| .75910E 00 | .42698E 01 | .76040E 06 | .47390E 01 | .76200E 06 | .44496E 01 | 28 3 |
| .76330E 00 | .37596E 01 | .76400E 06 | .38298E 01 | .76460E 06 | .34998E 01 | 26 3 |
| .76590E 00 | .28596E 01 | .76690E 06 | .18798E 01 | .76750E 06 | .17298E 01 | 28 3 |
| .76800E 00 | .17896E 01 | .76910E 06 | .27198E 01 | .76960E 06 | .31398E 01 | 26 3 |
| .77020E 00 | .36598E 01 | .77210E 06 | .34698E 01 | .77370E 06 | .35498E 01 | 26 3 |
| .77470E 00 | .39398E 01 | .77570E 06 | .45998E 01 | .77600E 06 | .41998E 01 | 28 3 |
| .77540E 00 | .38598E 01 | .77730E 06 | .34698E 11 | .77800E 06 | .32998E 01 | 28 3 |
| .77900E 00 | .29998E 01 | .78130E 06 | .28998E 11 | .78100E 06 | .27858E 01 | 28 3 |
| .78300E 00 | .24598E 01 | .78430E 06 | .27398E 01 | .78550E 06 | .33398E 01 | 28 3 |
| .78600E 00 | .35498E 01 | .78670E 06 | .43898E 01 | .78740E 06 | .32598E 01 | 28 3 |
| .78540E 00 | .34698E 01 | .79040E 06 | .42998E 01 | .79100E 06 | .47798E 01 | 26 3 |
| .79210E 00 | .47798E 02 | .79360E 06 | .35598E 06 | .79450E 06 | .29898E 01 | 28 3 |
| .79650E 00 | .21598E 01 | .79730E 06 | .21698E 01 | .79850E 06 | .23798E 01 | 28 3 |
| .79960E 00 | .30698E 01 | .80060E 06 | .42098E 01 | .80030E 06 | .44598E 01 | 26 3 |
| .80140E 00 | .46498E 01 | .80140E 06 | .41398E 01 | .80240E 06 | .37198E 01 | 28 3 |
| .80450E 00 | .34998E 01 | .80620E 06 | .38898E 01 | .80690E 06 | .34698E 01 | 28 3 |
| .80630E 00 | .38798E 01 | .80940E 06 | .38498E 01 | .81040E 06 | .34998E 01 | 28 3 |
| .81170E 00 | .34898E 01 | .81140E 06 | .42698E 01 | .81290E 06 | .34898E 01 | 28 3 |
| .81400E 00 | .35498E 01 | .81500E 06 | .25698E 01 | .81650E 06 | .18498E 01 | 26 3 |
| .81740E 00 | .11998E 01 | .81560E 06 | .13598E 01 | .81530E 06 | .16798E 01 | 28 3 |
| .82040E 00 | .24598E 01 | .82130E 06 | .32398E 01 | .82150E 06 | .36498E 01 | 26 3 |
| .82260E 00 | .39598E 01 | .82490E 06 | .40498E 01 | .82500E 06 | .36558E 01 | 26 3 |
| .82540E 00 | .34898E 01 | .82620E 06 | .31498E 01 | .82760E 06 | .37698E 01 | 28 3 |
| .82930E 00 | .34498E 01 | .83250E 06 | .38898E 01 | .83200E 06 | .41998E 01 | 26 3 |
| .83270E 00 | .37198E 01 | .83590E 06 | .37998E 01 | .83490E 06 | .37798E 01 | 28 3 |
| .83600E 00 | .32998E 01 | .83710E 06 | .37598E 01 | .83790E 06 | .45198E 01 | 28 3 |
| .83860E 00 | .35198E 01 | .83940E 06 | .27898E 01 | .84050E 06 | .31198E 01 | 26 3 |
| .84120E 00 | .34898E 01 | .84240E 06 | .35398E 01 | .84230E 06 | .32948E 01 | 26 3 |
| .84720E 00 | .37298E 01 | .84830E 06 | .44898E 01 | .84670E 06 | .45898E 01 | 26 3 |
| .84940E 00 | .34498E 01 | .85300E 06 | .33613E 01 | .85020E 06 | .31198E 01 | 28 3 |
| .85170E 00 | .29598E 01 | .85340E 06 | .29998E 01 | .85480E 06 | .32948E 01 | 28 3 |
| .85480E 00 | .33298E 01 | .85560E 06 | .31798E 01 | .85630E 06 | .26898E 01 | 28 3 |
| .85790E 00 | .22898E 01 | .85940E 06 | .19298E 01 | .86130E 06 | .18898E 01 | 26 3 |
| .86330E 00 | .16598E 01 | .86490E 06 | .19598E 01 | .86480E 06 | .24498E 01 | 28 3 |
| .86600E 00 | .31498E 01 | .86640E 06 | .31998E 01 | .86750E 06 | .23298E 01 | 28 3 |
| .86790E 00 | .21998E 01 | .86730E 06 | .32398E 01 | .86950E 06 | .25698E 01 | 28 3 |
| .87080E 00 | .31998E 01 | .87310E 06 | .32698E 01 | .87340E 06 | .38498E 01 | 28 3 |
| .87420E 00 | .31098E 01 | .87540E 06 | .32798E 01 | .8770E 06 | .33698E 01 | 26 3 |
| .87650E 00 | .28798E 01 | .87930E 06 | .27042E 01 | .87930E 06 | .25998E 01 | 28 3 |
| .88290E 00 | .24198E 01 | .88180E 06 | .19898E 01 | .88210E 06 | .14698E 01 | 28 3 |
| .88500E 00 | .20898E 01 | .88290E 06 | .24798E 01 | .88370E 06 | .34698E 01 | 26 3 |
| .88610E 00 | .34998E 01 | .88530E 06 | .28498E 01 | .88610E 06 | .27398E 01 | 28 3 |
| .88650E 00 | .27298E 01 | .88740E 06 | .29598E 01 | .88820E 06 | .34398E 01 | 26 3 |
| .88900E 00 | .42998E 01 | .8890E 06 | .49698E 01 | .89020E 06 | .53998E 01 | 26 3 |
| .89140E 00 | .42098E 01 | .89140E 06 | .39298E 01 | .89300E 06 | .41798E 01 | 26 3 |
| .89380E 00 | .38598E 01 | .89470E 06 | .46698E 01 | .89630E 06 | .48998E 01 | 26 3 |
| .89670E 00 | .34898E 01 | .89750E 06 | .34098E 01 | .89830E 06 | .34398E 01 | 28 3 |
| .89900E 00 | .30098E 01 | .90000E 06 | .41798E 01 | .90080E 06 | .45798E 01 | 28 3 |
| .90160E 00 | .50098E 01 | .90200E 06 | .46898E 01 | .90330E 06 | .46798E 01 | 28 3 |
| .90490E 00 | .38698E 01 | .90540E 06 | .39198E 01 | .90660E 06 | .41198E 01 | 28 3 |
| .90790E 00 | .38898E 01 | .90910E 06 | .40298E 01 | .91040E 06 | .38398E 01 | 28 3 |
| .91210E 00 | .35798E 01 | .91370E 06 | .34189E 01 | .91540E 06 | .32769E 01 | 28 3 |
| .91670E 00 | .35489E 01 | .91760E 06 | .35089E 01 | .91970E 06 | .29669E 01 | 26 3 |
| .92050E 00 | .33298E 01 | .92160E 06 | .32589E 01 | .92350E 06 | .37069E 01 | 28 3 |
| .92440E 00 | .38398E 01 | .92520E 06 | .35380E 01 | .92610E 06 | .28188E 01 | 26 3 |
| .92740E 00 | .23588E 01 | .9290E 06 | .19398E 01 | .92950E 06 | .14688E 01 | 26 3 |
| .93080E 00 | .26488E 01 | .93210E 06 | .36488E 01 | .93260E 06 | .34588E 01 | 26 3 |
| .93350E 00 | .26088E 01 | .93420E 06 | .34888E 01 | .93650E 06 | .35387E 01 | 28 3 |
| .93780E 00 | .36487E 01 | .93630E 06 | .37687E 01 | .93910E 06 | .35687E 01 | 28 3 |

| | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|----|---|---|------|
| .94000E 06 | .29487E 01 | .94130E 16 | .26657E 01 | .94270E 06 | .32587E 01 | 28 | 3 | 2 | 1500 |
| .94350E 06 | .36687E 01 | .94490E 06 | .33867E 01 | .94580E 06 | .34187E 01 | 28 | 3 | 2 | 1501 |
| .94750E 06 | .29836E 01 | .94960E 06 | .23966E 01 | .95000E 06 | .23875E 01 | 28 | 3 | 2 | 1502 |
| .95100E 06 | .22986E 01 | .95250E 06 | .26086E 01 | .95380E 06 | .33066E 01 | 28 | 3 | 2 | 1503 |
| .95470E 06 | .34886E 01 | .95610E 06 | .30346E 01 | .95790E 06 | .28385E 01 | 28 | 3 | 2 | 1504 |
| .95840E 06 | .31085E 01 | .95970E 06 | .37265E 01 | .96060E 06 | .37285E 01 | 28 | 3 | 2 | 1505 |
| .96240E 06 | .33285E 01 | .96420E 06 | .27155E 01 | .96510E 06 | .28985E 01 | 28 | 3 | 2 | 1506 |
| .96610E 06 | .39085E 01 | .96740E 06 | .30355E 01 | .96880E 06 | .32284E 01 | 28 | 3 | 2 | 1507 |
| .97020E 06 | .25784E 01 | .97160E 06 | .22584E 01 | .97340E 06 | .25464E 01 | 28 | 3 | 2 | 1508 |
| .97480E 06 | .23764E 01 | .97620E 06 | .25484E 01 | .97810E 06 | .28963E 01 | 28 | 3 | 2 | 1509 |
| .97900E 06 | .37583E 01 | .98060E 06 | .43583E 01 | .98090E 06 | .43583E 01 | 28 | 3 | 2 | 1510 |
| .98180E 06 | .40683E 01 | .98320E 06 | .39183E 01 | .98510E 06 | .31383E 01 | 28 | 3 | 2 | 1511 |
| .98700E 06 | .25883E 01 | .98860E 06 | .27582E 01 | .98940E 06 | .34682E 01 | 28 | 3 | 2 | 1512 |
| .99030E 06 | .36182E 01 | .99130E 06 | .34532E 01 | .99270E 06 | .31382E 01 | 28 | 3 | 2 | 1513 |
| .99510E 06 | .38082E 01 | .99700E 06 | .28301E 01 | .99850E 06 | .35281E 01 | 28 | 3 | 2 | 1514 |
| .99940E 06 | .36761E 01 | .99990E 06 | .34201E 01 | .10000E 07 | .3381E 01 | 28 | 3 | 2 | 1515 |
| .10020E 07 | .29581E 01 | .10040E 07 | .31401E 01 | .10060E 07 | .27980E 01 | 28 | 3 | 2 | 1516 |
| .10080E 07 | .34880E 01 | .10130E 07 | .24979E 01 | .10150E 07 | .28179E 01 | 28 | 3 | 2 | 1517 |
| .10160E 07 | .30779E 01 | .10180E 07 | .21879E 01 | .10200E 07 | .23779E 01 | 28 | 3 | 2 | 1518 |
| .10220E 07 | .17978E 01 | .10250E 07 | .33778E 01 | .10290E 07 | .35477E 01 | 28 | 3 | 2 | 1519 |
| .10320E 07 | .24177E 01 | .10330E 07 | .24077E 01 | .10350E 07 | .29277E 01 | 28 | 3 | 2 | 1520 |
| .10380E 07 | .31276E 01 | .10400E 07 | .27343E 01 | .10410E 07 | .25376E 01 | 28 | 3 | 2 | 1521 |
| .10430E 07 | .31375E 01 | .10440E 07 | .41475E 01 | .10460E 07 | .36475E 01 | 28 | 3 | 2 | 1522 |
| .10500E 07 | .28374E 01 | .10520E 07 | .31374E 01 | .10550E 07 | .19574E 01 | 28 | 3 | 2 | 1523 |
| .10570E 07 | .21773E 01 | .10590E 07 | .26473E 01 | .10610E 07 | .31473E 01 | 28 | 3 | 2 | 1524 |
| .10630E 07 | .35772E 01 | .10670E 07 | .21172E 01 | .10700E 07 | .25371E 01 | 28 | 3 | 2 | 1525 |
| .10730E 07 | .31071E 01 | .10750E 07 | .24471E 01 | .10760E 07 | .21170E 01 | 28 | 3 | 2 | 1526 |
| .10790E 07 | .31670E 01 | .10810E 07 | .37069E 01 | .10830E 07 | .42469E 01 | 28 | 3 | 2 | 1527 |
| .10860E 07 | .37469E 01 | .10890E 07 | .36168E 01 | .10930E 07 | .19567E 01 | 28 | 3 | 2 | 1528 |
| .10960E 07 | .19467E 01 | .10980E 07 | .25567E 01 | .11000E 07 | .30899E 01 | 28 | 3 | 2 | 1529 |
| .11010E 07 | .32366E 01 | .11040E 07 | .28966E 01 | .11050E 07 | .30466E 01 | 28 | 3 | 2 | 1530 |
| .11130E 07 | .37665E 01 | .11120E 07 | .35765E 01 | .11140E 07 | .40565E 01 | 28 | 3 | 2 | 1531 |
| .11130E 07 | .29063E 01 | .11120E 07 | .21462E 01 | .11240E 07 | .28262E 01 | 28 | 3 | 2 | 1532 |
| .11280E 07 | .19461E 01 | .11310E 07 | .27961E 01 | .11350E 07 | .31260E 01 | 28 | 3 | 2 | 1533 |
| .11330E 07 | .21559E 01 | .11390E 07 | .19659E 01 | .11400E 07 | .23559E 01 | 28 | 3 | 2 | 1534 |
| .11430E 07 | .37458E 01 | .11450E 07 | .36858E 01 | .11480E 07 | .32858E 01 | 28 | 3 | 2 | 1535 |
| .11500E 07 | .36357E 01 | .11520E 07 | .37557E 01 | .11540E 07 | .42757E 01 | 28 | 3 | 2 | 1536 |
| .11560E 07 | .45256E 01 | .11680E 07 | .32056E 01 | .11630E 07 | .34455E 01 | 28 | 3 | 2 | 1537 |
| .11660E 07 | .40355E 01 | .11680E 07 | .35155E 01 | .11780E 07 | .41554E 01 | 28 | 3 | 2 | 1538 |
| .11720E 07 | .40854E 01 | .11740E 07 | .27454E 01 | .11770E 07 | .17253E 01 | 28 | 3 | 2 | 1539 |
| .11790E 07 | .22253E 01 | .11800E 07 | .24753E 01 | .11820E 07 | .25653E 01 | 28 | 3 | 2 | 1540 |
| .11860E 07 | .39652E 01 | .11890E 07 | .31552E 01 | .11920E 07 | .36751E 01 | 28 | 3 | 2 | 1541 |
| .11940E 07 | .33349E 01 | .11970E 07 | .25549E 01 | .11990E 07 | .26743E 01 | 28 | 3 | 2 | 1542 |
| .12000E 07 | .27142E 01 | .12020E 07 | .29442E 01 | .12050E 07 | .36337E 01 | 28 | 3 | 2 | 1543 |
| .12030E 07 | .28733E 01 | .12190E 07 | .33731E 01 | .12120E 07 | .37299E 01 | 28 | 3 | 2 | 1544 |
| .12130E 07 | .38228E 01 | .12150E 07 | .34728E 01 | .12170E 07 | .27224E 01 | 28 | 3 | 2 | 1545 |
| .12190E 07 | .33121E 01 | .12210E 07 | .42019E 01 | .12220E 07 | .43188E 01 | 28 | 3 | 2 | 1546 |
| .12240E 07 | .37816E 01 | .12260E 07 | .42314E 01 | .12270E 07 | .46113E 01 | 28 | 3 | 2 | 1547 |
| .12280E 07 | .44811E 01 | .12290E 07 | .39010E 01 | .12300E 07 | .31809E 01 | 28 | 3 | 2 | 1548 |
| .12320E 07 | .24607E 01 | .12340E 07 | .26205E 01 | .12350E 07 | .31504E 01 | 28 | 3 | 2 | 1549 |
| .12360E 07 | .39493E 01 | .12370E 07 | .42402E 01 | .12380E 07 | .42600E 01 | 28 | 3 | 2 | 1550 |
| .12390E 07 | .39599E 01 | .12410E 07 | .33597E 01 | .12430E 07 | .25195E 01 | 28 | 3 | 2 | 1551 |
| .12450E 07 | .27793E 01 | .12470E 07 | .29991E 01 | .12490E 07 | .36386E 01 | 28 | 3 | 2 | 1552 |
| .12510E 07 | .35686E 01 | .12520E 07 | .37355E 01 | .12540E 07 | .32483E 01 | 28 | 3 | 2 | 1553 |
| .12590E 07 | .35779E 01 | .12600E 07 | .31643E 01 | .12610E 07 | .38775E 01 | 28 | 3 | 2 | 1554 |
| .12630E 07 | .35173E 01 | .12650E 07 | .36971E 01 | .12670E 07 | .33269E 01 | 28 | 3 | 2 | 1555 |
| .12690E 07 | .28667E 01 | .12750E 07 | .26265E 01 | .12720E 07 | .34663E 01 | 28 | 3 | 2 | 1556 |
| .12740E 07 | .39561E 01 | .12760E 07 | .36759E 01 | .12770E 07 | .39958E 01 | 28 | 3 | 2 | 1557 |
| .12790E 07 | .27557E 01 | .12860E 07 | .35052E 01 | .12810E 07 | .36753E 01 | 28 | 3 | 2 | 1558 |
| .12840E 07 | .38250E 01 | .12850E 07 | .37262E 01 | .12870E 07 | .35747E 01 | 28 | 3 | 2 | 1559 |

| | | | | | | | | | | | | | | | |
|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|----|---|---|------|
| .12590E | 07 | .42945E | 01 | .12910E | 07 | .45143E | 01 | .12930E | 07 | .59240E | 01 | 28 | 3 | 2 | 1560 |
| .12950E | 07 | .46338E | 01 | .12960E | 07 | .40337E | 01 | .12990E | 07 | .30434E | 01 | 28 | 3 | 2 | 1561 |
| .13000E | 07 | .33023E | 01 | .13020E | 07 | .34950E | 01 | .13050E | 07 | .33727E | 01 | 28 | 3 | 2 | 1562 |
| .13090E | 07 | .32723E | 01 | .13110E | 07 | .34620E | 01 | .13140E | 07 | .37616E | 01 | 28 | 3 | 2 | 1563 |
| .13160E | 07 | .43514E | 01 | .13190E | 07 | .44010E | 01 | .13210E | 07 | .35008E | 01 | 28 | 3 | 2 | 1564 |
| .13230E | 07 | .32006E | 01 | .13260E | 07 | .36902E | 01 | .13280E | 07 | .35100E | 01 | 28 | 3 | 2 | 1565 |
| .13290E | 07 | .30399E | 01 | .13300E | 07 | .39497E | 01 | .13320E | 07 | .42595E | 01 | 28 | 3 | 2 | 1566 |
| .13350E | 07 | .30491E | 01 | .13380E | 07 | .32256E | 01 | .13390E | 07 | .32254E | 01 | 28 | 3 | 2 | 1567 |
| .13400E | 07 | .32219E | 01 | .13410E | 07 | .32154E | 01 | .13440E | 07 | .39980E | 01 | 28 | 3 | 2 | 1568 |
| .13450E | 07 | .42579E | 01 | .13470E | 07 | .41676E | 01 | .13490E | 07 | .46073E | 01 | 28 | 3 | 2 | 1569 |
| .13530E | 07 | .40668E | 01 | .13550E | 07 | .37532E | 01 | .13560E | 07 | .34446E | 01 | 28 | 3 | 2 | 1570 |
| .13590E | 07 | .27697E | 01 | .13600E | 07 | .26705E | 01 | .13630E | 07 | .23728E | 01 | 28 | 3 | 2 | 1571 |
| .13650E | 07 | .21494E | 01 | .13670E | 07 | .25060E | 01 | .13690E | 07 | .33126E | 01 | 28 | 3 | 2 | 1572 |
| .13700E | 07 | .37709E | 01 | .13720E | 07 | .34575E | 01 | .13740E | 07 | .37941E | 01 | 28 | 3 | 2 | 1573 |
| .13750E | 07 | .30524E | 01 | .13790E | 07 | .30873E | 01 | .13810E | 07 | .37122E | 01 | 28 | 3 | 2 | 1574 |
| .13840E | 07 | .30170E | 01 | .13860E | 07 | .27036E | 01 | .13880E | 07 | .27102E | 01 | 28 | 3 | 2 | 1575 |
| .13890E | 07 | .30365E | 01 | .13910E | 07 | .32051E | 01 | .13940E | 07 | .21766E | 01 | 28 | 3 | 2 | 1576 |
| .13960E | 07 | .23132E | 01 | .13990E | 07 | .27115E | 01 | .14000E | 07 | .29198E | 01 | 28 | 3 | 2 | 1577 |
| .14020E | 07 | .30276E | 01 | .14050E | 07 | .25043E | 01 | .14060E | 07 | .25032E | 01 | 28 | 3 | 2 | 1578 |
| .14080E | 07 | .30301E | 01 | .14120E | 07 | .31866E | 01 | .14140E | 07 | .29244E | 01 | 28 | 3 | 2 | 1579 |
| .14160E | 07 | .23022E | 01 | .14190E | 07 | .31669E | 01 | .14200E | 07 | .30578E | 01 | 28 | 3 | 2 | 1580 |
| .14230E | 07 | .30445E | 01 | .14250E | 07 | .38623E | 01 | .14270E | 07 | .33601E | 01 | 28 | 3 | 2 | 1581 |
| .14290E | 07 | .30579E | 01 | .14320E | 07 | .40746E | 01 | .14330E | 07 | .40635E | 01 | 28 | 3 | 2 | 1582 |
| .14360E | 07 | .30503E | 01 | .14400E | 07 | .31259E | 01 | .14420E | 07 | .20837E | 01 | 28 | 3 | 2 | 1583 |
| .14440E | 07 | .20415E | 01 | .14460E | 07 | .30371E | 01 | .14500E | 07 | .34649E | 01 | 28 | 3 | 2 | 1584 |
| .14520E | 07 | .30739E | 01 | .14550E | 07 | .30423E | 01 | .14560E | 07 | .29916E | 01 | 28 | 3 | 2 | 1585 |
| .14600E | 07 | .30697E | 01 | .14650E | 07 | .39071E | 01 | .14670E | 07 | .30161E | 01 | 28 | 3 | 2 | 1586 |
| .14710E | 07 | .40240E | 01 | .14750E | 07 | .29620E | 01 | .14780E | 07 | .29604E | 01 | 28 | 3 | 2 | 1587 |
| .14790E | 07 | .32099E | 01 | .14800E | 07 | .35722E | 01 | .14810E | 07 | .35646E | 01 | 28 | 3 | 2 | 1588 |
| .14830E | 07 | .30992E | 01 | .14860E | 07 | .26739E | 01 | .14870E | 07 | .26266E | 01 | 28 | 3 | 2 | 1589 |
| .14920E | 07 | .30903E | 01 | .14940E | 07 | .30550E | 01 | .15000E | 07 | .36861E | 01 | 28 | 3 | 2 | 1590 |
| .15010E | 07 | .37996E | 01 | .15040E | 07 | .34321E | 01 | .15070E | 07 | .28244E | 01 | 28 | 3 | 2 | 1591 |
| .15100E | 07 | .21466E | 01 | .15120E | 07 | .21874E | 01 | .15160E | 07 | .32912E | 01 | 28 | 3 | 2 | 1592 |
| .15170E | 07 | .30520E | 01 | .15190E | 07 | .24888E | 01 | .15290E | 07 | .29511E | 01 | 28 | 3 | 2 | 1593 |
| .15320E | 07 | .29034E | 01 | .15360E | 07 | .24860E | 01 | .15420E | 07 | .24110E | 01 | 28 | 3 | 2 | 1594 |
| .15460E | 07 | .31341E | 01 | .15490E | 07 | .35456E | 01 | .15490E | 07 | .35463E | 01 | 28 | 3 | 2 | 1595 |
| .15500E | 07 | .32671E | 01 | .15520E | 07 | .27062E | 01 | .15560E | 07 | .20442E | 01 | 28 | 3 | 2 | 1596 |
| .15560E | 07 | .20733E | 01 | .15600E | 07 | .33023E | 01 | .15620E | 07 | .31814E | 01 | 28 | 3 | 2 | 1597 |
| .15640E | 07 | .20704E | 01 | .15660E | 07 | .29495E | 01 | .15690E | 07 | .31980E | 01 | 28 | 3 | 2 | 1598 |
| .15730E | 07 | .27161E | 01 | .15770E | 07 | .29542E | 01 | .15790E | 07 | .20132E | 01 | 28 | 3 | 2 | 1599 |
| .15820E | 07 | .30118E | 01 | .15840E | 07 | .29909E | 01 | .15890E | 07 | .27385E | 01 | 28 | 3 | 2 | 1600 |
| .15920E | 07 | .21270E | 01 | .15960E | 07 | .18151E | 01 | .15990E | 07 | .20437E | 01 | 28 | 3 | 2 | 1601 |
| .16000E | 07 | .21932E | 01 | .16020E | 07 | .24607E | 01 | .16030E | 07 | .24965E | 01 | 28 | 3 | 2 | 1602 |
| .16050E | 07 | .25620E | 01 | .16060E | 07 | .24397E | 01 | .16080E | 07 | .31552E | 01 | 28 | 3 | 2 | 1603 |
| .16100E | 07 | .40807E | 01 | .16110E | 07 | .41764E | 01 | .16130E | 07 | .36439E | 01 | 28 | 3 | 2 | 1604 |
| .16160E | 07 | .32272E | 01 | .16180E | 07 | .30227E | 01 | .16210E | 07 | .30859E | 01 | 28 | 3 | 2 | 1605 |
| .16240E | 07 | .20392E | 01 | .16270E | 07 | .32124E | 01 | .16280E | 07 | .30702E | 01 | 28 | 3 | 2 | 1606 |
| .16310E | 07 | .23734E | 01 | .16330E | 07 | .24444E | 01 | .16390E | 07 | .23954E | 01 | 28 | 3 | 2 | 1607 |
| .16410E | 07 | .24309E | 01 | .16420E | 07 | .22967E | 01 | .16450E | 07 | .27019E | 01 | 28 | 3 | 2 | 1608 |
| .16460E | 07 | .27296E | 01 | .16480E | 07 | .26051E | 01 | .16500E | 07 | .27506E | 01 | 28 | 3 | 2 | 1609 |
| .16520E | 07 | .27121E | 01 | .16530E | 07 | .28520E | 01 | .16560E | 07 | .26749E | 01 | 28 | 3 | 2 | 1610 |
| .16590E | 07 | .20470E | 01 | .16620E | 07 | .26391E | 01 | .16650E | 07 | .35913E | 01 | 28 | 3 | 2 | 1611 |
| .16670E | 07 | .37227E | 01 | .16680E | 07 | .35434E | 01 | .16710E | 07 | .33655E | 01 | 28 | 3 | 2 | 1612 |
| .16720E | 07 | .33462E | 01 | .16750E | 07 | .30764E | 01 | .16760E | 07 | .31091E | 01 | 28 | 3 | 2 | 1613 |
| .16800E | 07 | .20319E | 01 | .16830E | 07 | .26640E | 01 | .16870E | 07 | .27969E | 01 | 28 | 3 | 2 | 1614 |
| .16890E | 07 | .20183E | 01 | .16930E | 07 | .20911E | 01 | .16950E | 07 | .20625E | 01 | 28 | 3 | 2 | 1615 |
| .16970E | 07 | .22339E | 01 | .17000E | 07 | .31361E | 01 | .17020E | 07 | .34637E | 01 | 28 | 3 | 2 | 1616 |
| .17040E | 07 | .37414E | 01 | .17060E | 07 | .35190E | 01 | .17080E | 07 | .32766E | 01 | 28 | 3 | 2 | 1617 |
| .17100E | 07 | .30433E | 01 | .17110E | 07 | .35531E | 01 | .17140E | 07 | .35196E | 01 | 28 | 3 | 2 | 1618 |
| .17170E | 07 | .32160E | 01 | .17200E | 07 | .27625E | 01 | .17220E | 07 | .26201E | 01 | 28 | 3 | 2 | 1619 |

| | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------|---|------|
| .17240E 07 | .25978E 01 | .17260E 07 | .26424E 01 | .17290E 07 | .27719E 01 | 2F 3 | 2 | 1620 |
| .17320E 07 | .25984E 01 | .17340E 07 | .26968E 01 | .17370E 07 | .27425E 01 | 2F 3 | 2 | 1621 |
| .17400E 07 | .26189E 01 | .17420E 07 | .26968E 01 | .17440E 07 | .27542E 01 | 2F 3 | 2 | 1622 |
| .17460E 07 | .25519E 01 | .17500E 07 | .25571E 01 | .17540E 07 | .27325E 01 | 2F 3 | 2 | 1623 |
| .17550E 07 | .25514E 01 | .17590E 07 | .26667E 01 | .17600E 07 | .27756E 01 | 2F 3 | 2 | 1624 |
| .17630E 07 | .21521E 01 | .17650E 07 | .20320E 01 | .17670E 07 | .27675E 01 | 2F 3 | 2 | 1625 |
| .17690E 07 | .23551E 01 | .17720E 07 | .26117E 01 | .17750E 07 | .27782E 01 | 2F 3 | 2 | 1626 |
| .17770E 07 | .22559E 01 | .17800E 07 | .26224E 01 | .17830E 07 | .27358E 01 | 2F 3 | 2 | 1627 |
| .17860E 07 | .22554E 01 | .17870E 07 | .23043E 01 | .17900E 07 | .27406E 01 | 2F 3 | 2 | 1628 |
| .17930E 07 | .34773E 01 | .17950E 07 | .36650E 01 | .17980E 07 | .37315E 01 | 2F 3 | 2 | 1629 |
| .17990E 07 | .38504E 01 | .18000E 07 | .37522E 01 | .18020E 07 | .34519E 01 | 2F 3 | 2 | 1630 |
| .18050E 07 | .34259E 01 | .18080E 07 | .36649E 01 | .18120E 07 | .31752E 01 | 2F 3 | 2 | 1631 |
| .18150E 07 | .27192E 01 | .18180E 07 | .24632E 01 | .18200E 07 | .21559E 01 | 2F 3 | 2 | 1632 |
| .18220E 07 | .23785E 01 | .18240E 07 | .24312E 01 | .18250E 07 | .24025E 01 | 2F 3 | 2 | 1633 |
| .18280E 07 | .21765E 01 | .18320E 07 | .24517E 01 | .18350E 07 | .23659E 01 | 2F 3 | 2 | 1634 |
| .18380E 07 | .24199E 01 | .18410E 07 | .24935E 01 | .18430E 07 | .25765E 01 | 2F 3 | 2 | 1635 |
| .18450E 07 | .24992E 01 | .18490E 07 | .26145E 01 | .18500E 07 | .26159E 01 | 2F 3 | 2 | 1636 |
| .18520E 07 | .26143E 01 | .18560E 07 | .25813E 01 | .18600E 07 | .24782E 01 | 2F 3 | 2 | 1637 |
| .18610E 07 | .24574E 01 | .18630E 07 | .26529E 01 | .18670E 07 | .17526E 01 | 2F 3 | 2 | 1638 |
| .18720E 07 | .17590E 01 | .18750E 07 | .19067E 01 | .18780E 07 | .19244E 01 | 2F 3 | 2 | 1639 |
| .18820E 07 | .23613E 01 | .18840E 07 | .26593E 01 | .18870E 07 | .26575E 01 | 2F 3 | 2 | 1640 |
| .18880E 07 | .26467E 01 | .18910E 07 | .26244E 01 | .18930E 07 | .25229E 01 | 2F 3 | 2 | 1641 |
| .18960E 07 | .25106E 01 | .19000E 07 | .29555E 01 | .19010E 07 | .38660E 01 | 2F 3 | 2 | 1642 |
| .19030E 07 | .29231E 01 | .19060E 07 | .27407E 01 | .19080E 07 | .27758E 01 | 2F 3 | 2 | 1643 |
| .19100E 07 | .28529E 01 | .19110E 07 | .28514E 01 | .19120E 07 | .27160E 01 | 2F 3 | 2 | 1644 |
| .19150E 07 | .25656E 01 | .19170E 07 | .24127E 01 | .19210E 07 | .21468E 01 | 2F 3 | 2 | 1645 |
| .19240E 07 | .26625E 01 | .19260E 07 | .19395E 01 | .19280E 07 | .17966E 01 | 2F 3 | 2 | 1646 |
| .19300E 07 | .18137E 01 | .19340E 07 | .19979E 01 | .19370E 07 | .21735E 01 | 2F 3 | 2 | 1647 |
| .19410E 07 | .26276E 01 | .19430E 07 | .27747E 01 | .19450E 07 | .27903E 01 | 2F 3 | 2 | 1648 |
| .19470E 07 | .27189E 01 | .19490E 07 | .25660E 01 | .19500E 07 | .23145E 01 | 2F 3 | 2 | 1649 |
| .19510E 07 | .29630E 01 | .19540E 07 | .18067E 01 | .19560E 07 | .17257E 01 | 2F 3 | 2 | 1650 |
| .19590E 07 | .19114E 01 | .19620E 07 | .21117E 01 | .19640E 07 | .23041E 01 | 2F 3 | 2 | 1651 |
| .19660E 07 | .23211E 01 | .19680E 07 | .22792E 01 | .19710E 07 | .24036E 01 | 2F 3 | 2 | 1652 |
| .19740E 07 | .26295E 01 | .19760E 07 | .28405E 01 | .19790E 07 | .24022E 01 | 2F 3 | 2 | 1653 |
| .19820E 07 | .25478E 01 | .19850E 07 | .22834E 01 | .19890E 07 | .23576E 01 | 2F 3 | 2 | 1654 |
| .19910E 07 | .24946E 01 | .19950E 07 | .25008E 01 | .19970E 07 | .24759E 01 | 2F 3 | 2 | 1655 |
| .19990E 07 | .23430E 01 | .20000E 07 | .23565E 01 | .20010E 07 | .23715E 01 | 2F 3 | 2 | 1656 |
| .20050E 07 | .22214E 01 | .20090E 07 | .23914E 01 | .20130E 07 | .22213E 01 | 2F 3 | 2 | 1657 |
| .20170E 07 | .24713E 01 | .20190E 07 | .24512E 01 | .20210E 07 | .22412E 01 | 2F 3 | 2 | 1658 |
| .20270E 07 | .25711E 01 | .20300E 07 | .26611E 01 | .20340E 07 | .31610E 01 | 2F 3 | 2 | 1659 |
| .20400E 07 | .28510E 01 | .20450E 07 | .26009E 01 | .20520E 07 | .23308E 01 | 2F 3 | 2 | 1660 |
| .20550E 07 | .25108E 01 | .20590E 07 | .28007E 01 | .20610E 07 | .22307E 01 | 2F 3 | 2 | 1661 |
| .20670E 07 | .26006E 01 | .20720E 07 | .23205E 01 | .20740E 07 | .22705E 01 | 2F 3 | 2 | 1662 |
| .20780E 07 | .23704E 01 | .20830E 07 | .23203E 01 | .20840E 07 | .23303E 01 | 2F 3 | 2 | 1663 |
| .20900E 07 | .23302E 01 | .20930E 07 | .26411E 01 | .20970E 07 | .22707E 01 | 2F 3 | 2 | 1664 |
| .21000E 07 | .21550E 01 | .21030E 07 | .20399E 01 | .21090E 07 | .21999E 01 | 2F 3 | 2 | 1665 |
| .21130E 07 | .22097E 01 | .21190E 07 | .24596E 01 | .21220E 07 | .26695E 01 | 2F 3 | 2 | 1666 |
| .21300E 07 | .30893E 01 | .21340E 07 | .27592E 01 | .21360E 07 | .27992E 01 | 2F 3 | 2 | 1667 |
| .21400E 07 | .30691E 01 | .21450E 07 | .26390E 01 | .21460E 07 | .30186E 01 | 2F 3 | 2 | 1668 |
| .21520E 07 | .23388E 01 | .21560E 07 | .20168E 01 | .21620E 07 | .21786E 01 | 2F 3 | 2 | 1669 |
| .21740E 07 | .27084E 01 | .21770E 07 | .23263E 01 | .21800E 07 | .27782E 01 | 2F 3 | 2 | 1670 |
| .21820E 07 | .29182E 01 | .21860E 07 | .26461E 01 | .21900E 07 | .23980E 01 | 2F 3 | 2 | 1671 |
| .21950E 07 | .24475E 01 | .21960E 07 | .24554E 01 | .22000E 07 | .23699E 01 | 2F 3 | 2 | 1672 |
| .22020E 07 | .22963E 01 | .22050E 07 | .21552E 01 | .22080E 07 | .24742E 01 | 2F 3 | 2 | 1673 |
| .22150E 07 | .21115E 01 | .22200E 07 | .19802E 01 | .22290E 07 | .27871E 01 | 2F 3 | 2 | 1674 |
| .22320E 07 | .26261E 01 | .22370E 07 | .23944E 01 | .22410E 07 | .23030E 01 | 2F 3 | 2 | 1675 |
| .22490E 07 | .25403E 01 | .22500E 07 | .24900E 01 | .22550E 07 | .22358E 01 | 2F 3 | 2 | 1676 |
| .22580E 07 | .24332E 01 | .22650E 07 | .27373E 01 | .22730E 07 | .26106E 01 | 2F 3 | 2 | 1677 |
| .22620E 07 | .21630E 01 | .22860E 07 | .26779E 01 | .22900E 07 | .27462E 01 | 2F 3 | 2 | 1678 |
| .22930E 07 | .25337E 01 | .22930E 07 | .27794E 01 | .23000E 07 | .26777E 01 | 2F 3 | 2 | 1679 |

| | | | | | | | | | | | | | | | |
|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|----|---|---|------|
| .23030E | 07 | .22453E | 01 | .23170E | 07 | .27321E | 01 | .23100E | 07 | .31596E | 01 | 28 | 3 | 2 | 1660 |
| .23120E | 07 | .26956E | 01 | .23230E | 07 | .27420E | 01 | .23240E | 07 | .22983E | 01 | 28 | 3 | 2 | 1661 |
| .23270E | 07 | .26921E | 01 | .23320E | 07 | .27420E | 01 | .23410E | 07 | .22101E | 01 | 28 | 3 | 2 | 1662 |
| .23430E | 07 | .27627E | 01 | .23430E | 07 | .28370E | 01 | .23570E | 07 | .27029E | 01 | 28 | 3 | 2 | 1663 |
| .23540E | 07 | .27374E | 01 | .23570E | 07 | .28660E | 01 | .23780E | 07 | .19203E | 01 | 28 | 3 | 2 | 1664 |
| .23630E | 07 | .21771E | 01 | .23710E | 07 | .24637E | 01 | .23920E | 07 | .22653E | 01 | 28 | 3 | 2 | 1665 |
| .23910E | 07 | .23432E | 01 | .23740E | 07 | .28699E | 01 | .23990E | 07 | .22076E | 01 | 28 | 3 | 2 | 1666 |
| .24000E | 07 | .27436E | 01 | .24000E | 07 | .28646E | 01 | .24100E | 07 | .22432E | 01 | 28 | 3 | 2 | 1667 |
| .24140E | 07 | .23113E | 01 | .24100E | 07 | .19700E | 01 | .24260E | 07 | .23376E | 01 | 28 | 3 | 2 | 1668 |
| .24300E | 07 | .25992E | 01 | .24300E | 07 | .29130E | 01 | .24480E | 07 | .24498E | 01 | 28 | 3 | 2 | 1669 |
| .24540E | 07 | .27077E | 01 | .24400E | 07 | .28636E | 01 | .24610E | 07 | .24252E | 01 | 28 | 3 | 2 | 1690 |
| .24620E | 07 | .28621E | 01 | .24400E | 07 | .22530E | 01 | .24780E | 07 | .18492E | 01 | 28 | 3 | 2 | 1691 |
| .24820E | 07 | .17273E | 01 | .24500E | 07 | .20457E | 01 | .24920E | 07 | .25343E | 01 | 28 | 3 | 2 | 1692 |
| .24920E | 07 | .28632E | 01 | .24500E | 07 | .24010E | 01 | .25000E | 07 | .23565E | 01 | 28 | 3 | 2 | 1693 |
| .25100E | 07 | .24100E | 01 | .25000E | 07 | .21063E | 01 | .25110E | 07 | .21744E | 01 | 28 | 3 | 2 | 1694 |
| .25100E | 07 | .22512E | 01 | .25200E | 07 | .22050E | 01 | .25240E | 07 | .24561E | 01 | 28 | 3 | 2 | 1695 |
| .25200E | 07 | .27436E | 01 | .25400E | 07 | .22419E | 01 | .25400E | 07 | .23159E | 01 | 28 | 3 | 2 | 1696 |
| .25440E | 07 | .22833E | 01 | .25600E | 07 | .24541E | 01 | .25500E | 07 | .25393E | 01 | 28 | 3 | 2 | 1697 |
| .25500E | 07 | .21549E | 01 | .25600E | 07 | .27112E | 01 | .25690E | 07 | .23253E | 01 | 28 | 3 | 2 | 1698 |
| .25770E | 07 | .21592E | 01 | .25600E | 07 | .25430E | 01 | .25910E | 07 | .22792E | 01 | 28 | 3 | 2 | 1699 |
| .25970E | 07 | .21946E | 01 | .25600E | 07 | .22346E | 01 | .26020E | 07 | .22419E | 01 | 28 | 3 | 2 | 1700 |
| .26030E | 07 | .28193E | 01 | .25600E | 07 | .27204E | 01 | .26180E | 07 | .24463E | 01 | 28 | 3 | 2 | 1701 |
| .26240E | 07 | .21743E | 01 | .25800E | 07 | .22922E | 01 | .26360E | 07 | .23001E | 01 | 28 | 3 | 2 | 1702 |
| .26410E | 07 | .19084E | 01 | .26070E | 07 | .19903E | 01 | .26510E | 07 | .21649E | 01 | 28 | 3 | 2 | 1703 |
| .26550E | 07 | .25335E | 01 | .26070E | 07 | .22505E | 01 | .26660E | 07 | .22797E | 01 | 28 | 3 | 2 | 1704 |
| .26730E | 07 | .21450E | 01 | .26070E | 07 | .19773E | 01 | .26780E | 07 | .23143E | 01 | 28 | 3 | 2 | 1705 |
| .26820E | 07 | .24123E | 01 | .26100E | 07 | .22270E | 01 | .26930E | 07 | .23066E | 01 | 28 | 3 | 2 | 1706 |
| .27000E | 07 | .23733E | 01 | .27000E | 07 | .24224E | 01 | .27040E | 07 | .23215E | 01 | 28 | 3 | 2 | 1707 |
| .27050E | 07 | .19447E | 01 | .27100E | 07 | .18700E | 01 | .27190E | 07 | .22946E | 01 | 28 | 3 | 2 | 1708 |
| .27250E | 07 | .24221E | 01 | .27100E | 07 | .25890E | 01 | .27360E | 07 | .23771E | 01 | 28 | 3 | 2 | 1709 |
| .27430E | 07 | .25130E | 01 | .27400E | 07 | .25131E | 01 | .27520E | 07 | .21399E | 01 | 28 | 3 | 2 | 1710 |
| .27500E | 07 | .28631E | 01 | .27600E | 07 | .21959E | 01 | .27640E | 07 | .27123E | 01 | 28 | 3 | 2 | 1711 |
| .27720E | 07 | .28607E | 01 | .27740E | 07 | .23951E | 01 | .27810E | 07 | .23469E | 01 | 28 | 3 | 2 | 1712 |
| .27850E | 07 | .24401E | 01 | .27800E | 07 | .23921E | 01 | .27960E | 07 | .28401E | 01 | 28 | 3 | 2 | 1713 |
| .28100E | 07 | .22190E | 01 | .28050E | 07 | .23470E | 01 | .28100E | 07 | .28265E | 01 | 28 | 3 | 2 | 1714 |
| .28170E | 07 | .27300E | 01 | .28100E | 07 | .27849E | 01 | .28220E | 07 | .25177E | 01 | 28 | 3 | 2 | 1715 |
| .28200E | 07 | .21384E | 01 | .28300E | 07 | .19024E | 01 | .28440E | 07 | .19541E | 01 | 28 | 3 | 2 | 1716 |
| .28310E | 07 | .23175E | 01 | .28540E | 07 | .23711E | 01 | .28530E | 07 | .22765E | 01 | 28 | 3 | 2 | 1717 |
| .28500E | 07 | .27300E | 01 | .28730E | 07 | .26673E | 01 | .28830E | 07 | .23406E | 01 | 28 | 3 | 2 | 1718 |
| .28640E | 07 | .21671E | 01 | .28700E | 07 | .22506E | 01 | .28960E | 07 | .23660E | 01 | 28 | 3 | 2 | 1719 |
| .28900E | 07 | .22994E | 01 | .28930E | 07 | .22503E | 01 | .29110E | 07 | .22851E | 01 | 28 | 3 | 2 | 1720 |
| .29100E | 07 | .25005E | 01 | .29200E | 07 | .22059E | 01 | .29300E | 07 | .21326E | 01 | 28 | 3 | 2 | 1721 |
| .29370E | 07 | .22781E | 01 | .29400E | 07 | .22161E | 01 | .29470E | 07 | .18525E | 01 | 28 | 3 | 2 | 1722 |
| .29540E | 07 | .28689E | 01 | .29600E | 07 | .21003E | 01 | .29620E | 07 | .21251E | 01 | 28 | 3 | 2 | 1723 |
| .29720E | 07 | .28018E | 01 | .29740E | 07 | .28911E | 01 | .29800E | 07 | .25341E | 01 | 28 | 3 | 2 | 1724 |
| .29800E | 07 | .21701E | 01 | .29910E | 07 | .28673E | 01 | .29990E | 07 | .22761E | 01 | 28 | 3 | 2 | 1725 |
| .30000E | 07 | .25009E | 01 | .30100E | 07 | .23262E | 01 | .30090E | 07 | .22182E | 01 | 28 | 3 | 2 | 1726 |
| .30100E | 07 | .22247E | 01 | .30170E | 07 | .23033E | 01 | .30240E | 07 | .21262E | 01 | 28 | 3 | 2 | 1727 |
| .30320E | 07 | .19923E | 01 | .30370E | 07 | .19986E | 01 | .30400E | 07 | .21051E | 01 | 28 | 3 | 2 | 1728 |
| .30450E | 07 | .22520E | 01 | .30500E | 07 | .21676E | 01 | .30560E | 07 | .23666E | 01 | 28 | 3 | 2 | 1729 |
| .30700E | 07 | .21101E | 01 | .30600E | 07 | .19049E | 01 | .30910E | 07 | .19503E | 01 | 28 | 3 | 2 | 1730 |
| .30910E | 07 | .19099E | 01 | .30990E | 07 | .18015E | 01 | .31190E | 07 | .25901E | 01 | 28 | 3 | 2 | 1731 |
| .31200E | 07 | .19510E | 01 | .31230E | 07 | .19750E | 01 | .31340E | 07 | .18397E | 01 | 28 | 3 | 2 | 1732 |
| .31450E | 07 | .21345E | 01 | .31470E | 07 | .22135E | 01 | .31500E | 07 | .22021E | 01 | 28 | 3 | 2 | 1733 |
| .31580E | 07 | .18483E | 01 | .31600E | 07 | .18244E | 01 | .31690E | 07 | .19930E | 01 | 28 | 3 | 2 | 1734 |
| .31770E | 07 | .17292E | 01 | .31600E | 07 | .17577E | 01 | .31880E | 07 | .21639E | 01 | 28 | 3 | 2 | 1735 |
| .31910E | 07 | .22925E | 01 | .32000E | 07 | .22860E | 01 | .32020E | 07 | .22774E | 01 | 28 | 3 | 2 | 1736 |
| .32080E | 07 | .22052E | 01 | .32130E | 07 | .21733E | 01 | .32220E | 07 | .28496E | 01 | 28 | 3 | 2 | 1737 |
| .32330E | 07 | .28457E | 01 | .32470E | 07 | .20303E | 01 | .32500E | 07 | .28510E | 01 | 28 | 3 | 2 | 1738 |
| .32500E | 07 | .21382E | 01 | .32500E | 07 | .21213E | 01 | .32540E | 07 | .21484E | 01 | 28 | 3 | 2 | 1739 |

| | | | | | | | | | | | | | | | |
|---------|----|---------|----|---------|----|---------|----|---------|----|---------|----|----|---|---|------|
| .52700E | 07 | .21749E | 01 | .52740E | 07 | .22247E | 01 | .52800E | 07 | .20549E | 01 | 26 | 3 | 2 | 1740 |
| .52790E | 07 | .21840E | 01 | .53140E | 07 | .22600E | 01 | .53010E | 07 | .22739E | 01 | 26 | 3 | 2 | 1741 |
| .52840E | 07 | .22340E | 01 | .53190E | 07 | .22170E | 01 | .53200E | 07 | .22330E | 01 | 26 | 3 | 2 | 1742 |
| .52850E | 07 | .22110E | 01 | .53240E | 07 | .23500E | 01 | .53390E | 07 | .22211E | 01 | 26 | 3 | 2 | 1743 |
| .52900E | 07 | .22190E | 01 | .53400E | 07 | .22643E | 01 | .53570E | 07 | .21171E | 01 | 26 | 3 | 2 | 1744 |
| .52920E | 07 | .21350E | 01 | .53640E | 07 | .20607E | 01 | .53900E | 07 | .21209E | 01 | 26 | 3 | 2 | 1745 |
| .52990E | 07 | .21600E | 01 | .54160E | 07 | .21300E | 01 | .54110E | 07 | .19644E | 01 | 26 | 3 | 2 | 1746 |
| .53000E | 07 | .21670E | 01 | .54300E | 07 | .21490E | 01 | .54390E | 07 | .21525E | 01 | 26 | 3 | 2 | 1747 |
| .53050E | 07 | .21170E | 01 | .54570E | 07 | .23466E | 01 | .54610E | 07 | .22052E | 01 | 26 | 3 | 2 | 1748 |
| .53130E | 07 | .21360E | 01 | .54760E | 07 | .21157E | 01 | .54950E | 07 | .21566E | 01 | 26 | 3 | 2 | 1749 |
| .53160E | 07 | .21100E | 01 | .55000E | 07 | .20614E | 01 | .55010E | 07 | .20645E | 01 | 26 | 3 | 2 | 1750 |
| .53180E | 07 | .21221E | 01 | .55270E | 07 | .21400E | 01 | .55370E | 07 | .22559E | 01 | 26 | 3 | 2 | 1751 |
| .53190E | 07 | .21530E | 01 | .55490E | 07 | .21530E | 01 | .55500E | 07 | .21428E | 01 | 26 | 3 | 2 | 1752 |
| .53250E | 07 | .20517E | 01 | .55660E | 07 | .22390E | 01 | .55750E | 07 | .21281E | 01 | 26 | 3 | 2 | 1753 |
| .53250E | 07 | .20668E | 01 | .55750E | 07 | .21944E | 01 | .56000E | 07 | .21535E | 01 | 26 | 3 | 2 | 1754 |
| .53290E | 07 | .21131E | 01 | .56150E | 07 | .20623E | 01 | .56250E | 07 | .20215E | 01 | 26 | 3 | 2 | 1755 |
| .53350E | 07 | .19707E | 01 | .56400E | 07 | .20197E | 01 | .56620E | 07 | .22566E | 01 | 26 | 3 | 2 | 1756 |
| .53360E | 07 | .22461E | 01 | .56720E | 07 | .23170E | 01 | .56790E | 07 | .20073E | 01 | 26 | 3 | 2 | 1757 |
| .53360E | 07 | .20171E | 01 | .56800E | 07 | .19529E | 01 | .56930E | 07 | .19129E | 01 | 26 | 3 | 2 | 1758 |
| .53390E | 07 | .18436E | 01 | .57030E | 07 | .16149E | 01 | .57130E | 07 | .19053E | 01 | 26 | 3 | 2 | 1759 |
| .53420E | 07 | .19382E | 01 | .57270E | 07 | .19031E | 01 | .57310E | 07 | .19296E | 01 | 26 | 3 | 2 | 1760 |
| .53440E | 07 | .21309E | 01 | .57460E | 07 | .22240E | 01 | .57500E | 07 | .22749E | 01 | 26 | 3 | 2 | 1761 |
| .53490E | 07 | .21220E | 01 | .57630E | 07 | .20626E | 01 | .57660E | 07 | .20021E | 01 | 26 | 3 | 2 | 1762 |
| .53560E | 07 | .20706E | 01 | .57940E | 07 | .20479E | 01 | .58000E | 07 | .19050E | 01 | 26 | 3 | 2 | 1763 |
| .53590E | 07 | .20153E | 01 | .58230E | 07 | .20632E | 01 | .58340E | 07 | .19014E | 01 | 26 | 3 | 2 | 1764 |
| .53640E | 07 | .21091E | 01 | .58670E | 07 | .21855E | 01 | .58650E | 07 | .19030E | 01 | 26 | 3 | 2 | 1765 |
| .53660E | 07 | .20400E | 01 | .59110E | 07 | .19790E | 01 | .59150E | 07 | .19291E | 01 | 26 | 3 | 2 | 1766 |
| .53720E | 07 | .19781E | 01 | .59360E | 07 | .21070E | 01 | .59530E | 07 | .19056E | 01 | 26 | 3 | 2 | 1767 |
| .53760E | 07 | .19842E | 01 | .59600E | 07 | .19000E | 01 | .59990E | 07 | .19713E | 01 | 26 | 3 | 2 | 1768 |
| .53780E | 07 | .19037E | 01 | .59830E | 07 | .19000E | 01 | .60260E | 07 | .19770E | 01 | 26 | 3 | 2 | 1769 |
| .53820E | 07 | .20044E | 01 | .60090E | 07 | .21631E | 01 | .60540E | 07 | .22025E | 01 | 26 | 3 | 2 | 1770 |
| .53860E | 07 | .19064E | 01 | .60400E | 07 | .20272E | 01 | .61000E | 07 | .19060E | 01 | 26 | 3 | 2 | 1771 |
| .53910E | 07 | .19753E | 01 | .61090E | 07 | .20490E | 01 | .61540E | 07 | .19039E | 01 | 26 | 3 | 2 | 1772 |
| .53950E | 07 | .19792E | 01 | .61470E | 07 | .20460E | 01 | .62000E | 07 | .20059E | 01 | 26 | 3 | 2 | 1773 |
| .53980E | 07 | .20000E | 01 | .62300E | 07 | .20000E | 01 | .62400E | 07 | .19062E | 01 | 26 | 3 | 2 | 1774 |
| .54000E | 07 | .19917E | 01 | .62590E | 07 | .20949E | 01 | .62930E | 07 | .19027E | 01 | 26 | 3 | 2 | 1775 |
| .54000E | 07 | .20434E | 01 | .63100E | 07 | .20019E | 01 | .63270E | 07 | .20014E | 01 | 26 | 3 | 2 | 1776 |
| .54030E | 07 | .21011E | 01 | .63620E | 07 | .19906E | 01 | .63850E | 07 | .20794E | 01 | 26 | 3 | 2 | 1777 |
| .54060E | 07 | .20017E | 01 | .64160E | 07 | .19196E | 01 | .64430E | 07 | .20089E | 01 | 26 | 3 | 2 | 1778 |
| .54060E | 07 | .22416E | 01 | .64700E | 07 | .20922E | 01 | .64890E | 07 | .21027E | 01 | 26 | 3 | 2 | 1779 |
| .54060E | 07 | .21210E | 01 | .65210E | 07 | .19845E | 01 | .65400E | 07 | .19057E | 01 | 26 | 3 | 2 | 1780 |
| .54070E | 07 | .20360E | 01 | .65800E | 07 | .16670E | 01 | .65920E | 07 | .19090E | 01 | 26 | 3 | 2 | 1781 |
| .54080E | 07 | .19611E | 01 | .66390E | 07 | .20432E | 01 | .66790E | 07 | .21045E | 01 | 26 | 3 | 2 | 1782 |
| .54090E | 07 | .19757E | 01 | .67000E | 07 | .16990E | 01 | .67230E | 07 | .21746E | 01 | 26 | 3 | 2 | 1783 |
| .54130E | 07 | .19000E | 01 | .67600E | 07 | .16920E | 01 | .67800E | 07 | .20019E | 01 | 26 | 3 | 2 | 1784 |
| .54160E | 07 | .19326E | 01 | .68090E | 07 | .16800E | 01 | .68290E | 07 | .20019E | 01 | 26 | 3 | 2 | 1785 |
| .54190E | 07 | .19266E | 01 | .68300E | 07 | .16260E | 01 | .68670E | 07 | .20059E | 01 | 26 | 3 | 2 | 1786 |
| .54230E | 07 | .16091E | 01 | .68900E | 07 | .16730E | 01 | .69760E | 07 | .20024E | 01 | 26 | 3 | 2 | 1787 |
| .54250E | 07 | .20713E | 01 | .69600E | 07 | .20622E | 01 | .69030E | 07 | .20011E | 01 | 26 | 3 | 2 | 1788 |
| .54260E | 07 | .20097E | 01 | .70010E | 07 | .20200E | 01 | .51130E | 07 | .20030E | 01 | 26 | 3 | 2 | 1789 |
| .54140E | 07 | .20072E | 01 | .51000E | 07 | .19170E | 01 | .51930E | 07 | .20062E | 01 | 26 | 3 | 2 | 1790 |
| .54270E | 07 | .20000E | 01 | .52000E | 07 | .20640E | 01 | .52670E | 07 | .20036E | 01 | 26 | 3 | 2 | 1791 |
| .54300E | 07 | .20480E | 01 | .53270E | 07 | .20917E | 01 | .53330E | 07 | .21313E | 01 | 26 | 3 | 2 | 1792 |
| .54350E | 07 | .20200E | 01 | .54000E | 07 | .20200E | 01 | .54110E | 07 | .20170E | 01 | 26 | 3 | 2 | 1793 |
| .54440E | 07 | .19271E | 01 | .54420E | 07 | .19572E | 01 | .54670E | 07 | .19473E | 01 | 26 | 3 | 2 | 1794 |
| .54490E | 07 | .20175E | 01 | .55000E | 07 | .19019E | 01 | .55100E | 07 | .19375E | 01 | 26 | 3 | 2 | 1795 |
| .54520E | 07 | .19676E | 01 | .55570E | 07 | .20076E | 01 | .55660E | 07 | .21076E | 01 | 26 | 3 | 2 | 1796 |
| .54550E | 07 | .19077E | 01 | .56700E | 07 | .20370E | 01 | .56900E | 07 | .20076E | 01 | 26 | 3 | 2 | 1797 |
| .54710E | 07 | .20376E | 01 | .57230E | 07 | .21479E | 01 | .57630E | 07 | .19279E | 01 | 26 | 3 | 2 | 1798 |
| .55000E | 07 | .21153E | 01 | .58040E | 07 | .21200E | 01 | .58360E | 07 | .20461E | 01 | 26 | 3 | 2 | 1799 |

| | | | | | | | | | |
|------------|--------------|------------|------------|------------|------------|----|---|----|------|
| .19500E 06 | .19118E 00 | .19000E 08 | .19750E 03 | .19500E 08 | .20471E 00 | 28 | 3 | 14 | 1860 |
| .20000E 06 | .21147E 00 | | | | | 28 | 3 | 16 | 1861 |
| .00000E 09 | .00000E 00 | | | | | 28 | 3 | 0 | 1862 |
| 2.80000+ 4 | 5.81826+ 1 | 0 | 99 | 0 | 0 | 28 | 3 | 22 | 1863 |
| 0.00000+00 | -6.29500E+00 | 0 | 0 | 1 | 0 | 28 | 3 | 22 | 1864 |
| | 2 | 0 | 0 | 0 | 0 | 28 | 3 | 22 | 1865 |
| .84010E 07 | .00000E 00 | .60000E 07 | .50000E-02 | .10000E 08 | .15000E-01 | 28 | 3 | 22 | 1866 |
| .12000E 04 | .30000E-01 | .14000E 08 | .40000E-01 | .16000E 08 | .48000E-01 | 28 | 3 | 22 | 1867 |
| .14000E 04 | .54000E-01 | .26000E 08 | .56000E-01 | .60000E 00 | .00000E 00 | 28 | 3 | 22 | 1868 |
| .00000E 00 | .00000E 00 | | | | | 28 | 3 | 0 | 1869 |
| 2.80000+ 4 | 5.81826+ 1 | 0 | 99 | 0 | 0 | 28 | 3 | 28 | 1870 |
| 0.00000+00 | -6.17720E+00 | 0 | 0 | 0 | 1 | 28 | 3 | 28 | 1871 |
| | 2 | 0 | 0 | 0 | 0 | 28 | 3 | 28 | 1872 |
| .83190E 07 | .00000E 00 | .96920E 07 | .58000E-01 | .10000E 08 | .73100E-01 | 28 | 3 | 28 | 1873 |
| .12000E 06 | .21279E 00 | .14500E 08 | .41192E 00 | .16000E 08 | .58920E 00 | 28 | 3 | 28 | 1874 |
| .18000E 08 | .58878E 00 | .20000E 08 | .65653E 00 | .06000E 00 | .06000E 00 | 28 | 3 | 28 | 1875 |
| .00000E 00 | .00000E 00 | | | | | 28 | 3 | 0 | 1876 |
| 2.80000+ 4 | 5.81826+ 1 | 0 | 1 | 0 | 0 | 28 | 3 | 51 | 1877 |
| 0.00000+ 0 | -1.17200E 07 | 0 | 0 | 1 | 11 | 28 | 3 | 51 | 1878 |
| | 11 | 0 | 0 | 0 | 0 | 28 | 3 | 51 | 1879 |
| .11920E 07 | .00000E 00 | .15000E 07 | .30000E-01 | .20000E 07 | .39000E-01 | 28 | 3 | 51 | 1880 |
| .25000E 07 | .40000E-01 | .30000E 07 | .37000E-01 | .40000E 07 | .20000E-01 | 28 | 3 | 51 | 1881 |
| .50000E 07 | .80000E-02 | .60000E 07 | .40000E-02 | .10000E 08 | .20000E-02 | 28 | 3 | 51 | 1882 |
| .08000E 06 | .10000E-02 | .20000E 06 | .10000E-02 | .00000E 00 | .30000E 00 | 28 | 3 | 51 | 1883 |
| .00000E 00 | .00000E 00 | | | | | 28 | 3 | 0 | 1884 |
| 2.80000+ 4 | 5.81826+ 1 | 0 | 2 | 0 | 0 | 28 | 3 | 52 | 1885 |
| 0.00000+ 0 | -1.3330E 07 | 0 | 0 | 1 | 27 | 28 | 3 | 52 | 1886 |
| | 27 | 0 | 0 | 0 | 0 | 28 | 3 | 52 | 1887 |
| .13550E 07 | .00000E 00 | .14000E 07 | .71000E-01 | .14500E 07 | .12000E 00 | 28 | 3 | 52 | 1888 |
| .19000E 07 | .14000E 00 | .15500E 07 | .13500E 00 | .16000E 07 | .12200E 00 | 28 | 3 | 52 | 1889 |
| .16500E 07 | .12230E 00 | .17000E 07 | .14400E 00 | .17500E 07 | .12000E 00 | 28 | 3 | 52 | 1890 |
| .18000E 07 | .13500E 00 | .18500E 07 | .13000E 00 | .19000E 07 | .17000E 00 | 28 | 3 | 52 | 1891 |
| .19500E 07 | .17000E 00 | .20000E 07 | .16000E 00 | .22000E 07 | .18000E 00 | 28 | 3 | 52 | 1892 |
| .24000E 07 | .17600E 00 | .26000E 07 | .17100E 00 | .28000E 07 | .16200E 00 | 28 | 3 | 52 | 1893 |
| .33000E 07 | .14400E 00 | .35000E 07 | .10600E 00 | .40000E 07 | .81000E-01 | 28 | 3 | 52 | 1894 |
| .50000E 07 | .59000E-01 | .60000E 07 | .42000E-01 | .60000E 07 | .25000E-01 | 28 | 3 | 52 | 1895 |
| .10000E 06 | .18000E-01 | .14000E 08 | .97000E-02 | .20000E 08 | .98000E-02 | 28 | 3 | 52 | 1896 |
| .00000E 00 | .00000E 00 | | | | | 28 | 3 | 0 | 1897 |
| 2.80000+ 4 | 5.81826+ 1 | 0 | 3 | 0 | 0 | 28 | 3 | 53 | 1898 |
| 0.00000+ 0 | -1.4540E 07 | 0 | 0 | 1 | 26 | 28 | 3 | 53 | 1899 |
| | 26 | 0 | 0 | 0 | 0 | 28 | 3 | 53 | 1900 |
| .14790E 07 | .00000E 00 | .15000E 07 | .15000E 00 | .15500E 07 | .11500E 00 | 28 | 3 | 53 | 1901 |
| .16000E 07 | .15000E 00 | .16500E 07 | .26000E 00 | .17000E 07 | .20000E 00 | 28 | 3 | 53 | 1902 |
| .17500E 07 | .23000E 00 | .18000E 07 | .32000E 00 | .18500E 07 | .25000E 00 | 28 | 3 | 53 | 1903 |
| .19000E 07 | .25000E 00 | .20000E 07 | .38000E 00 | .22500E 07 | .37000E 00 | 28 | 3 | 53 | 1904 |
| .24000E 07 | .44000E 00 | .25000E 07 | .45800E 00 | .26000E 07 | .46000E 00 | 28 | 3 | 53 | 1905 |
| .30000E 07 | .43000E 00 | .35000E 07 | .32000E 00 | .40000E 07 | .23500E 00 | 28 | 3 | 53 | 1906 |
| .50000E 07 | .15000E 00 | .60000E 07 | .10000E 00 | .60000E 07 | .58000E-01 | 28 | 3 | 53 | 1907 |
| .10000E 06 | .35000E-01 | .12000E 06 | .29000E-01 | .14000E 08 | .28000E-01 | 28 | 3 | 53 | 1908 |
| .18000E 08 | .27000E-01 | .20000E 08 | .26000E-01 | .30000E 00 | .06000E 00 | 28 | 3 | 53 | 1909 |
| .00000E 00 | .00000E 00 | | | | | 28 | 3 | 0 | 1910 |
| 2.80000+ 4 | 5.81826+ 1 | 0 | 4 | 0 | 0 | 28 | 3 | 54 | 1911 |
| 0.00000+ 0 | -2.1580E 07 | 0 | 0 | 1 | 13 | 28 | 3 | 54 | 1912 |
| | 13 | 0 | 0 | 0 | 0 | 28 | 3 | 54 | 1913 |
| .21950E 07 | .00000E 00 | .22000E 07 | .11000E-01 | .24000E 07 | .60500E-01 | 28 | 3 | 54 | 1914 |
| .25000E 07 | .60000E-01 | .25000E 07 | .85000E-01 | .30000E 07 | .90000E-01 | 28 | 3 | 54 | 1915 |
| .35000E 07 | .60000E-01 | .40000E 07 | .60000E-01 | .60000E 07 | .17000E-01 | 28 | 3 | 54 | 1916 |
| .60000E 07 | .30000E-02 | .10000E 08 | .25000E-02 | .14000E 08 | .20000E-02 | 28 | 3 | 54 | 1917 |
| .20000E 08 | .10000E-02 | .00000E 00 | .00000E 00 | .00000E 00 | .00000E 00 | 28 | 3 | 54 | 1918 |
| .00000E 00 | .00000E 00 | | | | | 28 | 3 | 0 | 1919 |

| | | | | | | | | | | | | | | |
|----------|----|------------|----|---------|----|------------|---------|----|------------|----|------|----|------|------|
| 2,00000+ | 4 | 5,81826+ | 1 | 0 | 5 | 0 | 0 | 28 | 3 | 55 | 1920 | | | |
| 0,0 | + | 0,-2250E | 07 | 0 | 0 | 1 | 13 | 28 | 3 | 55 | 1921 | | | |
| | 13 | | 2 | 0 | 0 | 0 | 0 | 26 | 3 | 55 | 1922 | | | |
| .23240E | 07 | .00000E | 00 | .24000E | 07 | .20000E-01 | .20000E | 07 | .42000E-01 | 26 | 3 | 55 | 1923 | |
| .25000E | 07 | .53000E-01 | | .30000E | 07 | .55000E-01 | .35000E | 07 | .54000E-01 | 26 | 3 | 55 | 1924 | |
| .41000E | 07 | .40000E-01 | | .50000E | 07 | .22000E-01 | .60000E | 07 | .10000E-01 | 28 | 3 | 55 | 1925 | |
| .01000E | 07 | .25000E-02 | | .10000E | 08 | .15000E-02 | .14000E | 08 | .10000E-02 | 28 | 3 | 55 | 1926 | |
| .20000E | 08 | .10000E-02 | | .00000E | 00 | .00000E | .00000E | 00 | .00000E | 00 | 28 | 3 | 55 | 1927 |
| .00000E | 00 | .00000E | 00 | | | | | | | | 26 | 3 | 0 | 1928 |
| 2,00000+ | 4 | 5,81826+ | 1 | 0 | 6 | 0 | 0 | 28 | 3 | 56 | 1929 | | | |
| 0,0 | + | 0,-24500E | 07 | 0 | 0 | 1 | 15 | 28 | 3 | 56 | 1930 | | | |
| | 15 | | 2 | 0 | 0 | 0 | 0 | 28 | 3 | 56 | 1931 | | | |
| .25000E | 07 | .00000E | 00 | .26000E | 07 | .25000E-01 | .20000E | 07 | .50000E-01 | 28 | 3 | 56 | 1932 | |
| .5,000E | 07 | .66000E-01 | | .32000E | 07 | .79700E-01 | .34000E | 07 | .85000E-01 | 26 | 3 | 56 | 1933 | |
| .50000E | 07 | .87000E-01 | | .40000E | 07 | .79000E-01 | .50000E | 07 | .50000E-01 | 28 | 3 | 56 | 1934 | |
| .01000E | 07 | .25000E-01 | | .70000E | 07 | .21000E-01 | .80000E | 07 | .14000E-01 | 28 | 3 | 56 | 1935 | |
| .1,000E | 08 | .70000E-02 | | .14000E | 08 | .60000E-02 | .20000E | 08 | .50000E-02 | 28 | 3 | 56 | 1936 | |
| .00000E | 00 | .00000E | 00 | | | | | | | 28 | 3 | 0 | 1937 | |
| 2,00000+ | 4 | 5,81826+ | 1 | 0 | 7 | 0 | 0 | 28 | 3 | 57 | 1938 | | | |
| 0,0 | + | 0,-25000E | 07 | 0 | 0 | 1 | 15 | 28 | 3 | 57 | 1939 | | | |
| | 15 | | 2 | 0 | 0 | 0 | 0 | 26 | 3 | 57 | 1940 | | | |
| .25450E | 07 | .00000E | 00 | .26000E | 07 | .49000E-02 | .28000E | 07 | .99000E-02 | 28 | 3 | 57 | 1941 | |
| .5,000E | 07 | .13000E-01 | | .32000E | 07 | .15700E-01 | .34000E | 07 | .16900E-01 | 28 | 3 | 57 | 1942 | |
| .00000E | 07 | .17000E-01 | | .40000E | 07 | .15700E-01 | .50000E | 07 | .10100E-01 | 28 | 3 | 57 | 1943 | |
| .00000E | 07 | .50000E-02 | | .70000E | 07 | .41000E-02 | .80000E | 07 | .28000E-02 | 28 | 3 | 57 | 1944 | |
| .2,000E | 08 | .10000E-02 | | .14000E | 08 | .12000E-02 | .20000E | 08 | .10000E-02 | 28 | 3 | 57 | 1945 | |
| .00000E | 00 | .00000E | 00 | | | | | | | 28 | 3 | 0 | 1946 | |
| 2,00000+ | 4 | 5,81826+ | 1 | 0 | 8 | 0 | 0 | 28 | 3 | 58 | 1947 | | | |
| 0,0 | + | 0,-26200E | 07 | 0 | 0 | 1 | 11 | 28 | 3 | 58 | 1948 | | | |
| | 11 | | 2 | 0 | 0 | 0 | 0 | 28 | 3 | 58 | 1949 | | | |
| .26700E | 07 | .00000E | 00 | .28000E | 07 | .20000E-01 | .30000E | 07 | .45000E-01 | 28 | 3 | 58 | 1950 | |
| .35000E | 07 | .54000E-01 | | .40000E | 07 | .50000E-01 | .50000E | 07 | .50000E-01 | 28 | 3 | 58 | 1951 | |
| .00000E | 07 | .25000E-01 | | .60000E | 07 | .10000E-01 | .10000E | 08 | .80000E-02 | 28 | 3 | 58 | 1952 | |
| .14000E | 08 | .60000E-02 | | .20000E | 08 | .40000E-02 | .00000E | 00 | .00000E | 00 | 28 | 3 | 58 | 1953 |
| .00000E | 00 | .00000E | 00 | | | | | | | 28 | 3 | 0 | 1954 | |
| 2,00000+ | 4 | 5,81826+ | 1 | 0 | 9 | 0 | 0 | 28 | 3 | 59 | 1955 | | | |
| 0,0 | + | 0,-27750E | 07 | 0 | 0 | 1 | 13 | 28 | 3 | 59 | 1956 | | | |
| | 13 | | 2 | 0 | 0 | 0 | 0 | 28 | 3 | 59 | 1957 | | | |
| .26220E | 07 | .00000E | 00 | .29000E | 07 | .58000E-01 | .30000E | 07 | .90000E-01 | 28 | 3 | 59 | 1958 | |
| .32500E | 07 | .12500E | 00 | .35500E | 07 | .14000E | .37500E | 07 | .14000E | 00 | 28 | 3 | 59 | 1959 |
| .40000E | 07 | .13200E | 00 | .50000E | 07 | .95000E-01 | .60000E | 07 | .60000E-01 | 28 | 3 | 59 | 1960 | |
| .70000E | 07 | .25000E-01 | | .10000E | 08 | .15000E-01 | .14000E | 08 | .13000E-01 | 28 | 3 | 59 | 1961 | |
| .20000E | 08 | .10000E-01 | | .00000E | 00 | .00000E | .00000E | 00 | .00000E | 00 | 26 | 3 | 59 | 1962 |
| .00000E | 00 | .00000E | 00 | | | | | | | 28 | 3 | 0 | 1963 | |
| 2,00000+ | 4 | 5,81826+ | 1 | 0 | 10 | 0 | 0 | 28 | 3 | 60 | 1964 | | | |
| 0,0 | + | 0,-29000E | 07 | 0 | 0 | 1 | 13 | 28 | 3 | 60 | 1965 | | | |
| | 13 | | 2 | 0 | 0 | 0 | 0 | 26 | 3 | 60 | 1966 | | | |
| .30100E | 07 | .00000E | 00 | .31100E | 07 | .10000E | .32500E | 07 | .14500E | 00 | 28 | 3 | 60 | 1967 |
| .35000E | 07 | .18500E | 00 | .37500E | 07 | .19500E | .40500E | 07 | .18500E | 00 | 28 | 3 | 60 | 1968 |
| .45000E | 07 | .16000E | 00 | .50000E | 07 | .15000E | .60000E | 07 | .12000E | 00 | 28 | 3 | 60 | 1969 |
| .00000E | 07 | .65000E-01 | | .10000E | 08 | .30000E-01 | .14000E | 08 | .15000E-01 | 28 | 3 | 60 | 1970 | |
| .20000E | 08 | .10000E-01 | | .00000E | 00 | .00000E | .00000E | 00 | .00000E | 00 | 28 | 3 | 60 | 1971 |
| .00000E | 00 | .00000E | 00 | | | | | | | 28 | 3 | 0 | 1972 | |
| 2,00000+ | 4 | 5,81826+ | 1 | 0 | 11 | 0 | 0 | 28 | 3 | 61 | 1973 | | | |
| 0,0 | + | 0,-32700E | 07 | 0 | 0 | 1 | 12 | 28 | 3 | 61 | 1974 | | | |
| | 12 | | 2 | 0 | 0 | 0 | 0 | 28 | 3 | 61 | 1975 | | | |
| .33250E | 07 | .00000E | 00 | .35000E | 07 | .11000E | .37500E | 07 | .17000E | 00 | 28 | 3 | 61 | 1976 |
| .40000E | 07 | .14000E | 00 | .42500E | 07 | .18000E | .45000E | 07 | .17500E | 00 | 28 | 3 | 61 | 1977 |
| .50000E | 07 | .16000E | 00 | .60000E | 07 | .11500E | .80000E | 07 | .65000E-01 | 28 | 3 | 61 | 1978 | |
| .10000E | 08 | .30000E-01 | | .14000E | 08 | .15000E-01 | .20000E | 08 | .16000E-01 | 28 | 3 | 61 | 1979 | |

| | | | | | | | | | | | | | |
|-------------|-------------|------------|------------|------------|------------|--|---|--|-----|----|---|-----|------|
| .00000E 00 | .00000E 00 | | | | | | | | | 28 | 3 | 0 | 1980 |
| 2.00000+ 4 | 5.81826+ 1 | | 0 | | 12 | | 0 | | 0 | 28 | 3 | 62 | 1981 |
| 0.0 + 0 | -.36280E 07 | | 0 | | 0 | | 1 | | 11 | 28 | 3 | 62 | 1982 |
| | 11 | | 0 | | 0 | | 0 | | 0 | 28 | 3 | 62 | 1983 |
| .36890E 07 | .00000E 00 | .37500E 07 | .50000E-01 | .40000E 07 | .12500E 00 | | | | | 28 | 3 | 62 | 1984 |
| .42500E 07 | .14500E 00 | .45000E 07 | .14500E 00 | .50000E 07 | .13000E 00 | | | | | 28 | 3 | 62 | 1985 |
| .00000E 07 | .80000E-01 | .80000E 07 | .30000E-01 | .10000E 09 | .15000E-01 | | | | | 28 | 3 | 62 | 1986 |
| .14000E 08 | .10000E-01 | .20000E 08 | .80000E-02 | .00000E 00 | .00000E 00 | | | | | 28 | 3 | 62 | 1987 |
| .00000E 00 | .00000E 00 | | | | | | | | | 28 | 3 | 0 | 1988 |
| 2.00000+ 4 | 5.81826+ 1 | | 0 | | 99 | | 0 | | 0 | 28 | 3 | 91 | 1989 |
| 0.0 + 0 | 0.0 00+ 0 | | 0 | | 0 | | 1 | | 15 | 28 | 3 | 91 | 1990 |
| | 15 | | 0 | | 0 | | 0 | | 0 | 28 | 3 | 91 | 1991 |
| .37630E 07 | .00000E 00 | .40000E 07 | .02500E 00 | .43000E 07 | .10000E 00 | | | | | 28 | 3 | 91 | 1992 |
| .45000E 07 | .15000E 00 | .50000E 07 | .27500E 00 | .60000E 07 | .47500E 00 | | | | | 28 | 3 | 91 | 1993 |
| .71000E 07 | .54000E 00 | .80000E 07 | .59000E 00 | .90000E 07 | .56000E 00 | | | | | 28 | 3 | 91 | 1994 |
| .10000E 08 | .52800E 00 | .12000E 08 | .44000E 00 | .14000E 08 | .32000E 00 | | | | | 28 | 3 | 91 | 1995 |
| .16000E 08 | .20000E 00 | .18000E 08 | .90000E-01 | .20000E 08 | .50000E-01 | | | | | 28 | 3 | 91 | 1996 |
| .00000E 00 | .00000E 00 | | | | | | | | | 28 | 3 | 0 | 1997 |
| 2.00000+ 4 | 5.81826+ 1 | | 0 | | 99 | | 0 | | 0 | 28 | 3 | 102 | 1996 |
| 0.00000E+00 | 8.60000E+05 | | 0 | | 0 | | 2 | | 653 | 28 | 3 | 102 | 1999 |
| | 45 | | 5 | | 653 | | 2 | | 0 | 28 | 3 | 102 | 2000 |
| 1.00000- 5 | 1.46370+ 2 | 1.00000- 4 | 4.62870+ 1 | 1.00000- 3 | 1.46370+ 1 | | | | | 28 | 3 | 102 | 2001 |
| 1.00000- 2 | 4.02870+ 0 | 2.53000- 2 | 2.91010+ 0 | 3.36743- 2 | 2.52240+ 0 | | | | | 28 | 3 | 102 | 2002 |
| 4.48205- 2 | 2.18640+ 0 | 5.96061- 2 | 1.89010+ 0 | 7.94022- 2 | 1.64260+ 0 | | | | | 28 | 3 | 102 | 2003 |
| 1.05684- 1 | 1.42380+ 0 | 1.40666- 1 | 1.23420+ 0 | 1.87226- 0 | 1.06970+ 0 | | | | | 28 | 3 | 102 | 2004 |
| 2.49198- 1 | 9.27200- 1 | 3.31683- 1 | 8.03710- 1 | 4.41470- 1 | 6.96640- 1 | | | | | 28 | 3 | 102 | 2005 |
| 5.07596- 1 | 6.003840- 1 | 7.82091- 1 | 5.23400- 1 | 1.04096+ 0 | 4.53670- 1 | | | | | 28 | 3 | 102 | 2006 |
| 1.30552+ 0 | 3.95240- 1 | 1.64413+ 0 | 3.40050- 1 | 2.45454+ 0 | 2.95450- 1 | | | | | 28 | 3 | 102 | 2007 |
| 3.26699+ 0 | 2.56090- 1 | 4.34636+ 0 | 2.21970- 1 | 5.78767+ 0 | 1.92400- 1 | | | | | 28 | 3 | 102 | 2008 |
| 7.70338+ 0 | 1.66770- 1 | 1.02532+ 1 | 1.44550- 1 | 1.36470+ 1 | 1.25300- 1 | | | | | 28 | 3 | 102 | 2009 |
| 1.01642+ 1 | 1.08600- 1 | 2.41765+ 1 | 9.41370- 2 | 3.21780+ 1 | 8.15960- 2 | | | | | 28 | 3 | 102 | 2010 |
| 4.28302+ 1 | 7.07260- 2 | 5.70070+ 1 | 6.13030- 2 | 7.58763+ 1 | 5.31360- 2 | | | | | 28 | 3 | 102 | 2011 |
| 1.00991+ 2 | 4.60570- 2 | 1.22199+ 2 | 4.18690- 2 | 1.62648+ 2 | 3.62910- 2 | | | | | 28 | 3 | 102 | 2012 |
| 2.16484+ 2 | 3.14550- 2 | 2.88140+ 2 | 2.72600- 2 | 3.83514+ 2 | 2.36300- 2 | | | | | 28 | 3 | 102 | 2013 |
| 5.10458+ 2 | 2.04800- 2 | 6.17654+ 2 | 1.86170- 2 | 8.22097+ 2 | 1.61330- 2 | | | | | 28 | 3 | 102 | 2014 |
| 9.94738+ 2 | 1.46640- 2 | 1.29104+ 3 | 1.27610- 2 | 1.29134+ 3 | 1.20840- 2 | | | | | 28 | 3 | 102 | 2015 |
| 1.29155+ 3 | 1.28020- 2 | 1.29179+ 3 | 1.23140- 2 | 1.29186+ 3 | 1.24480- 2 | | | | | 28 | 3 | 102 | 2016 |
| 1.29201+ 3 | 1.22570- 2 | 1.29214+ 3 | 1.24160- 2 | 1.29230+ 3 | 1.22590- 2 | | | | | 28 | 3 | 102 | 2017 |
| 1.29245+ 3 | 1.27840- 2 | 1.29266+ 3 | 1.25600- 2 | 1.29342+ 3 | 1.28460- 2 | | | | | 28 | 3 | 102 | 2018 |
| 1.76224+ 3 | 1.10010- 2 | 2.25226+ 3 | 9.65000- 3 | 2.25376+ 3 | 9.53400- 3 | | | | | 28 | 3 | 102 | 2019 |
| 2.25480+ 3 | 9.16200- 3 | 2.25551+ 3 | 8.25000- 3 | 2.25598+ 3 | 6.73000- 3 | | | | | 28 | 3 | 102 | 2020 |
| 2.25631+ 3 | 5.80010- 4 | 2.25653+ 3 | 7.15010- 3 | 2.25668+ 3 | 6.90010- 3 | | | | | 28 | 3 | 102 | 2021 |
| 2.25685+ 3 | 1.18000- 2 | 2.25701+ 3 | 1.16000- 2 | 2.25715+ 3 | 1.16000- 2 | | | | | 28 | 3 | 102 | 2022 |
| 2.25732+ 3 | 5.39990- 3 | 2.25747+ 3 | 6.40000- 3 | 2.25769+ 3 | 5.79950- 4 | | | | | 28 | 3 | 102 | 2023 |
| 2.25802+ 3 | 6.47000- 3 | 2.25849+ 3 | 8.25000- 3 | 2.25919+ 3 | 9.15200- 3 | | | | | 28 | 3 | 102 | 2024 |
| 2.26022+ 3 | 9.52600- 3 | 2.27907+ 3 | 9.64680- 3 | 2.34554+ 3 | 9.50770- 3 | | | | | 28 | 3 | 102 | 2025 |
| 3.43410+ 3 | 7.67020- 3 | 3.77751+ 3 | 7.15000- 3 | 4.01350+ 3 | 6.84130- 3 | | | | | 28 | 3 | 102 | 2026 |
| 4.20061+ 3 | 6.67600- 3 | 4.57079+ 3 | 6.75590- 3 | 5.02787+ 3 | 6.85820- 3 | | | | | 28 | 3 | 102 | 2027 |
| 5.52762+ 3 | 6.40800- 3 | 5.52852+ 3 | 5.99600- 3 | 5.52899+ 3 | 6.46800- 3 | | | | | 28 | 3 | 102 | 2028 |
| 5.52931+ 3 | 5.63000- 3 | 5.52953+ 3 | 4.85000- 3 | 5.52978+ 3 | 6.50010- 3 | | | | | 28 | 3 | 102 | 2029 |
| 5.52985+ 3 | 5.33000- 3 | 5.53001+ 3 | 6.00010- 4 | 5.53015+ 3 | 6.61000- 3 | | | | | 28 | 3 | 102 | 2030 |
| 5.53032+ 3 | 5.19000- 3 | 5.53047+ 3 | 4.85000- 3 | 5.53069+ 3 | 5.63000- 3 | | | | | 28 | 3 | 102 | 2031 |
| 5.53101+ 3 | 6.46700- 3 | 5.53140+ 3 | 5.99300- 3 | 5.53218+ 3 | 6.40000- 3 | | | | | 28 | 3 | 102 | 2032 |
| 5.54488+ 3 | 6.46030- 3 | 5.86555+ 3 | 6.21600- 3 | 6.88784+ 3 | 5.69500- 3 | | | | | 28 | 3 | 102 | 2033 |
| 6.88853+ 3 | 5.56000- 3 | 6.88900+ 3 | 6.49700- 3 | 6.88932+ 3 | 4.45000- 3 | | | | | 28 | 3 | 102 | 2034 |
| 6.88954+ 3 | 4.99000- 3 | 6.88979+ 3 | 1.46500- 2 | 6.88985+ 3 | 6.65000- 3 | | | | | 28 | 3 | 102 | 2035 |
| 6.89001+ 3 | 1.01600- 2 | 6.89015+ 3 | 6.69000- 3 | 6.89031+ 3 | 3.34010- 3 | | | | | 28 | 3 | 102 | 2036 |
| 6.89046+ 3 | 5.01000- 3 | 6.89068+ 3 | 4.67000- 3 | 6.89100+ 3 | 6.59000- 3 | | | | | 28 | 3 | 102 | 2037 |
| 6.89147+ 3 | 5.56000- 3 | 6.89216+ 3 | 5.68400- 3 | 6.90005+ 3 | 5.60600- 3 | | | | | 28 | 3 | 102 | 2038 |
| 8.09744+ 3 | 5.21390- 3 | 8.41520+ 3 | 5.12390- 3 | 8.61219+ 3 | 5.07270- 3 | | | | | 28 | 3 | 102 | 2039 |

| | | | | | | | | | | | | | | |
|----------|---|----------|---|----------|---|----------|---|----------|---|-----------|---|----|------|------|
| 6.90718* | 3 | 5,00300* | 3 | 9,27816* | 3 | 2,60000* | 2 | 1,00000* | 4 | 2,80000* | 2 | 28 | 3102 | 2040 |
| 1.70000* | 4 | 2,80000* | 2 | 1,51000* | 4 | 1,60000* | 2 | 2,50000* | 4 | 1,80000* | 2 | 28 | 3102 | 2041 |
| 2.74132* | 4 | 1,11110* | 2 | 2,59760* | 4 | 1,10000* | 2 | 2,65768* | 4 | 1,10920* | 2 | 28 | 3102 | 2042 |
| 2.65842* | 4 | 1,11300* | 2 | 2,60000* | 4 | 1,11300* | 2 | 2,65927* | 4 | 1,16900* | 2 | 28 | 3102 | 2043 |
| 2.65950* | 4 | 1,23990* | 2 | 2,60966* | 4 | 6,33000* | 3 | 2,65977* | 4 | 1,17200* | 2 | 28 | 3102 | 2044 |
| 2.65984* | 4 | 3,05000* | 3 | 2,60989* | 4 | 6,60000* | 3 | 2,65997* | 4 | 5,03050* | 2 | 28 | 3102 | 2045 |
| 2.66005* | 4 | 1,35300* | 1 | 2,66010* | 4 | 6,59990* | 2 | 2,66016* | 4 | 3,17000* | 3 | 28 | 3102 | 2046 |
| 2.66023* | 4 | 1,16900* | 2 | 2,66034* | 4 | 6,50000* | 3 | 2,66050* | 4 | 1,24620* | 2 | 28 | 3102 | 2047 |
| 2.66073* | 4 | 1,16910* | 2 | 2,66010* | 4 | 1,11460* | 2 | 2,66158* | 4 | 1,11300* | 2 | 28 | 3102 | 2048 |
| 2.66501* | 4 | 1,16900* | 2 | 2,60756* | 4 | 1,10870* | 2 | 2,67362* | 4 | 1,10890* | 2 | 28 | 3102 | 2049 |
| 2.71628* | 4 | 1,11380* | 2 | 2,70036* | 4 | 1,14010* | 2 | 2,79877* | 4 | 1,21510* | 2 | 28 | 3102 | 2050 |
| 2.82151* | 4 | 1,37230* | 2 | 2,83699* | 4 | 1,58480* | 2 | 2,84753* | 4 | 1,72460* | 2 | 28 | 3102 | 2051 |
| 2.85471* | 4 | 1,77060* | 2 | 2,80990* | 4 | 1,66730* | 2 | 2,88529* | 4 | 5,30150* | 3 | 28 | 3102 | 2052 |
| 2.90301* | 4 | 6,59600* | 3 | 2,91849* | 4 | 8,32650* | 3 | 2,94123* | 4 | 9,07140* | 3 | 28 | 3102 | 2053 |
| 2.97464* | 4 | 1,00850* | 2 | 2,90030* | 4 | 1,05000* | 2 | 3,00939* | 4 | 1,06260* | 2 | 28 | 3102 | 2054 |
| 3.00972* | 4 | 1,05770* | 2 | 3,00961* | 4 | 9,18000* | 3 | 3,00997* | 4 | 9,16910* | 3 | 28 | 3102 | 2055 |
| 3.01913* | 4 | 1,50700* | 2 | 3,01019* | 4 | 9,18000* | 3 | 3,01028* | 4 | 1,05800* | 2 | 28 | 3102 | 2056 |
| 3.01061* | 4 | 1,02270* | 2 | 3,01090* | 4 | 1,06130* | 2 | 3,01132* | 4 | 1,06250* | 2 | 28 | 3102 | 2057 |
| 3.08927* | 4 | 1,07650* | 2 | 3,09057* | 4 | 1,07600* | 2 | 3,16722* | 4 | 1,07800* | 2 | 28 | 3102 | 2058 |
| 3.08174* | 4 | 1,07330* | 2 | 3,21600* | 4 | 1,07070* | 2 | 3,22175* | 4 | 1,07900* | 2 | 28 | 3102 | 2059 |
| 3.22757* | 4 | 1,07930* | 2 | 3,23134* | 4 | 1,06010* | 2 | 3,23424* | 4 | 1,063070* | 2 | 28 | 3102 | 2060 |
| 3.23608* | 4 | 1,08230* | 2 | 3,23733* | 4 | 1,06760* | 2 | 3,23818* | 4 | 1,09270* | 2 | 28 | 3102 | 2061 |
| 3.23976* | 4 | 1,09270* | 2 | 3,23916* | 4 | 1,01620* | 2 | 3,23943* | 4 | 1,13100* | 2 | 28 | 3102 | 2062 |
| 3.23361* | 4 | 1,36300* | 2 | 3,23973* | 4 | 1,57010* | 3 | 3,23983* | 4 | 1,83660* | 2 | 28 | 3102 | 2063 |
| 3.23992* | 4 | 3,85000* | 3 | 3,24000* | 4 | 2,11000* | 2 | 3,24012* | 4 | 1,98000* | 2 | 28 | 3102 | 2064 |
| 3.24026* | 4 | 1,45000* | 3 | 3,24039* | 4 | 1,58100* | 2 | 3,24057* | 4 | 1,36600* | 2 | 28 | 3102 | 2065 |
| 3.24084* | 4 | 1,03730* | 2 | 3,24124* | 4 | 1,09970* | 2 | 3,24182* | 4 | 1,89550* | 2 | 28 | 3102 | 2066 |
| 3.24267* | 4 | 1,08910* | 2 | 3,24392* | 4 | 1,06360* | 2 | 3,24576* | 4 | 1,06190* | 2 | 28 | 3102 | 2067 |
| 3.24846* | 4 | 1,08170* | 2 | 3,24921* | 4 | 1,08170* | 2 | 3,25242* | 4 | 1,06180* | 2 | 28 | 3102 | 2068 |
| 3.25325* | 4 | 1,08240* | 2 | 3,27181* | 4 | 1,08460* | 2 | 3,28710* | 4 | 1,08660* | 2 | 28 | 3102 | 2069 |
| 3.28801* | 4 | 1,08600* | 2 | 3,28664* | 4 | 1,08660* | 2 | 3,28908* | 4 | 1,08480* | 2 | 28 | 3102 | 2070 |
| 3.28937* | 4 | 1,08740* | 2 | 3,28957* | 4 | 1,08950* | 2 | 3,28971* | 4 | 1,09460* | 2 | 28 | 3102 | 2071 |
| 3.29980* | 4 | 1,05990* | 2 | 3,28997* | 4 | 1,92470* | 2 | 3,29013* | 4 | 1,25620* | 2 | 28 | 3102 | 2072 |
| 3.29020* | 4 | 1,05930* | 2 | 3,29029* | 4 | 1,08670* | 2 | 3,29043* | 4 | 1,06950* | 2 | 28 | 3102 | 2073 |
| 3.29063* | 4 | 1,08000* | 2 | 3,29092* | 4 | 1,08500* | 2 | 3,29135* | 4 | 1,08660* | 2 | 28 | 3102 | 2074 |
| 3.29199* | 4 | 1,08650* | 2 | 3,29767* | 4 | 1,08600* | 2 | 3,32000* | 4 | 3,37220* | 2 | 28 | 3102 | 2075 |
| 3.32855* | 4 | 1,06310* | 2 | 3,32901* | 4 | 1,06460* | 2 | 3,32933* | 4 | 1,06620* | 2 | 28 | 3102 | 2076 |
| 3.32954* | 4 | 1,05660* | 2 | 3,32959* | 4 | 1,07620* | 2 | 3,32979* | 4 | 1,02370* | 2 | 28 | 3102 | 2077 |
| 3.32997* | 4 | 9,03200* | 3 | 3,33014* | 4 | 6,41100* | 3 | 3,33021* | 4 | 1,02970* | 2 | 28 | 3102 | 2078 |
| 3.33031* | 4 | 1,08270* | 2 | 3,33046* | 4 | 1,06570* | 2 | 3,33067* | 4 | 1,06590* | 2 | 28 | 3102 | 2079 |
| 3.33099* | 4 | 1,06350* | 2 | 3,33145* | 4 | 1,06350* | 2 | 3,34233* | 4 | 1,06040* | 2 | 28 | 3102 | 2080 |
| 3.35734* | 4 | 1,06000* | 2 | 3,33819* | 4 | 1,06250* | 2 | 3,33079* | 4 | 1,06550* | 2 | 28 | 3102 | 2081 |
| 3.41330* | 4 | 1,06710* | 2 | 3,41544* | 4 | 1,06720* | 2 | 3,41690* | 4 | 1,06600* | 2 | 28 | 3102 | 2082 |
| 3.41789* | 4 | 1,06930* | 2 | 3,41856* | 4 | 1,06910* | 2 | 3,41902* | 4 | 1,07510* | 2 | 28 | 3102 | 2083 |
| 3.41933* | 4 | 1,05260* | 2 | 3,41953* | 4 | 1,18780* | 2 | 3,41969* | 4 | 1,26800* | 2 | 28 | 3102 | 2084 |
| 3.41979* | 4 | 8,25000* | 3 | 3,41965* | 4 | 1,15400* | 2 | 3,41990* | 4 | 3,13300* | 2 | 28 | 3102 | 2085 |
| 3.41997* | 4 | 1,14310* | 1 | 3,42005* | 4 | 2,37000* | 2 | 3,42009* | 4 | 7,97340* | 3 | 28 | 3102 | 2086 |
| 3.42014* | 4 | 7,67990* | 3 | 3,42021* | 4 | 7,67000* | 3 | 3,42031* | 4 | 1,23400* | 2 | 28 | 3102 | 2087 |
| 3.42045* | 4 | 1,17050* | 2 | 3,42057* | 4 | 1,04720* | 2 | 3,42098* | 4 | 1,07450* | 2 | 28 | 3102 | 2088 |
| 3.42144* | 4 | 1,06870* | 2 | 3,42211* | 4 | 1,06930* | 2 | 3,42310* | 4 | 1,06620* | 2 | 28 | 3102 | 2089 |
| 3.42456* | 4 | 1,06750* | 2 | 3,42678* | 4 | 1,06750* | 2 | 3,47277* | 4 | 1,06720* | 2 | 28 | 3102 | 2090 |
| 3.57320* | 4 | 1,06450* | 2 | 3,50592* | 4 | 1,06420* | 2 | 3,59962* | 4 | 1,06300* | 2 | 28 | 3102 | 2091 |
| 3.60294* | 4 | 1,06380* | 2 | 3,60519* | 4 | 1,06390* | 2 | 3,60673* | 4 | 1,06480* | 2 | 28 | 3102 | 2092 |
| 3.60777* | 4 | 1,06780* | 2 | 3,60848* | 4 | 1,06890* | 2 | 3,60897* | 4 | 1,08830* | 2 | 28 | 3102 | 2093 |
| 3.60930* | 4 | 1,09530* | 2 | 3,60952* | 4 | 9,35000* | 3 | 3,60967* | 4 | 1,43700* | 2 | 28 | 3102 | 2094 |
| 3.60978* | 4 | 1,09200* | 2 | 3,60985* | 4 | 1,80200* | 2 | 3,60996* | 4 | 6,74740* | 2 | 28 | 3102 | 2095 |
| 3.61007* | 4 | 2,45000* | 2 | 3,61015* | 4 | 1,88600* | 2 | 3,61022* | 4 | 1,94000* | 2 | 28 | 3102 | 2096 |
| 3.61033* | 4 | 1,45200* | 2 | 3,61048* | 4 | 9,40600* | 3 | 3,61070* | 4 | 1,09740* | 2 | 28 | 3102 | 2097 |
| 3.61103* | 4 | 1,06730* | 2 | 3,61132* | 4 | 1,06860* | 2 | 3,61223* | 4 | 1,06760* | 2 | 28 | 3102 | 2098 |
| 3.61327* | 4 | 1,06470* | 2 | 3,61481* | 4 | 1,06370* | 2 | 3,61706* | 4 | 1,06340* | 2 | 28 | 3102 | 2099 |

| | | | | | | | | | | | | | | |
|----------|---|-----------|---|----------|---|-----------|---|----------|---|-----------|---|----|------|------|
| 3.62038+ | 4 | 1.36320- | 2 | 3.64970+ | 4 | 1.06220- | 2 | 3.72174+ | 4 | 1.05990- | 2 | 28 | 3102 | 2190 |
| 3.63724+ | 4 | 1.35270- | 2 | 3.93935+ | 4 | 1.04670- | 2 | 3.93956+ | 4 | 1.05750- | 2 | 26 | 3102 | 2101 |
| 3.93970+ | 4 | 9.75400- | 3 | 3.93930+ | 4 | 1.12530- | 2 | 3.93985+ | 4 | 4.55630- | 3 | 28 | 3102 | 2102 |
| 3.93991+ | 4 | -2.06300- | 3 | 3.94002+ | 4 | 7.96050- | 3 | 3.94014+ | 4 | 1.37400- | 2 | 28 | 3102 | 2103 |
| 3.94020+ | 4 | 1.10250- | 2 | 3.94030+ | 4 | 9.75300- | 3 | 3.94044+ | 4 | 1.05450- | 2 | 28 | 3102 | 2104 |
| 3.94205+ | 4 | 1.35270- | 2 | 4.03442+ | 4 | 1.65050- | 2 | 4.09283+ | 4 | 9.66940- | 3 | 26 | 3102 | 2105 |
| 4.12680+ | 4 | 9.68000- | 3 | 4.18037+ | 4 | 9.66570- | 3 | 4.22112+ | 4 | 9.65600- | 3 | 28 | 3102 | 2106 |
| 4.24886+ | 4 | 9.65440- | 3 | 4.26774+ | 4 | 9.67120- | 3 | 4.28060+ | 4 | 9.7-170- | 3 | 28 | 3102 | 2107 |
| 4.28935+ | 4 | 9.97650- | 3 | 4.29530+ | 4 | 1.06750- | 2 | 4.29936+ | 4 | 1.24740- | 2 | 26 | 3102 | 2108 |
| 4.30212+ | 4 | 1.60660- | 2 | 4.30399+ | 4 | 2.06230- | 2 | 4.30527+ | 4 | 2.04930- | 2 | 28 | 3102 | 2109 |
| 4.30614+ | 4 | 2.38690- | 2 | 4.35800+ | 4 | 9.22400- | 3 | 4.30986+ | 4 | -4.40800- | 3 | 28 | 3102 | 2110 |
| 4.31073+ | 4 | -4.34000- | 3 | 4.31388+ | 4 | 3.14900- | 3 | 4.31664+ | 4 | 6.60630- | 3 | 28 | 3102 | 2111 |
| 4.32070+ | 4 | 8.42440- | 3 | 4.32665+ | 4 | 9.18820- | 3 | 4.33540+ | 4 | 9.47110- | 3 | 28 | 3102 | 2112 |
| 4.34926+ | 4 | 9.56820- | 3 | 4.36714+ | 4 | 9.59810- | 3 | 4.33948+ | 4 | 9.60330- | 3 | 28 | 3102 | 2113 |
| 4.43563+ | 4 | 9.59750- | 3 | 4.49549+ | 4 | 9.58450- | 3 | 4.60023+ | 4 | 9.56020- | 3 | 26 | 3102 | 2114 |
| 4.73903+ | 4 | 9.54700- | 3 | 4.73955+ | 4 | 9.51700- | 3 | 4.73970+ | 4 | 9.62900- | 3 | 28 | 3102 | 2115 |
| 4.73979+ | 4 | 1.33600- | 2 | 4.73965+ | 4 | 7.63400- | 3 | 4.73990+ | 4 | 1.92000- | 3 | 28 | 3102 | 2116 |
| 4.73997+ | 4 | 6.85550- | 4 | 4.74004+ | 4 | 2.51400- | 2 | 4.74014+ | 4 | 2.35000- | 3 | 28 | 3102 | 2117 |
| 4.74021+ | 4 | 1.33500- | 2 | 4.74030+ | 4 | 9.45100- | 3 | 4.74045+ | 4 | 9.45500- | 3 | 28 | 3102 | 2118 |
| 4.74142+ | 4 | 9.51460- | 3 | 4.74450+ | 4 | 9.52510- | 3 | 4.77872+ | 4 | 9.52300- | 3 | 28 | 3102 | 2119 |
| 4.78232+ | 4 | 9.52790- | 3 | 4.78477+ | 4 | 9.53930- | 3 | 4.78644+ | 4 | 9.55030- | 3 | 28 | 3102 | 2120 |
| 4.78758+ | 4 | 9.55700- | 3 | 4.78835+ | 4 | 9.59600- | 3 | 4.78888+ | 4 | 9.84800- | 3 | 28 | 3102 | 2121 |
| 4.78924+ | 4 | 1.10400- | 2 | 4.78948+ | 4 | 1.16160- | 2 | 4.78965+ | 4 | 1.40200- | 2 | 28 | 3102 | 2122 |
| 4.79984+ | 4 | 1.53200- | 2 | 4.78989+ | 4 | 2.78000- | 2 | 4.79000+ | 4 | 1.51000- | 2 | 28 | 3102 | 2123 |
| 4.79011+ | 4 | 2.01000- | 2 | 4.79016+ | 4 | 1.36000- | 2 | 4.79035+ | 4 | 1.32900- | 2 | 26 | 3102 | 2124 |
| 4.79052+ | 4 | 1.14800- | 2 | 4.79076+ | 4 | 1.69200- | 2 | 4.79112+ | 4 | 9.80400- | 3 | 28 | 3102 | 2125 |
| 4.79165+ | 4 | 9.58600- | 3 | 4.79242+ | 4 | 9.55500- | 3 | 4.79356+ | 4 | 9.54990- | 3 | 28 | 3102 | 2126 |
| 4.79523+ | 4 | 9.53890- | 3 | 4.79768+ | 4 | 9.52500- | 3 | 4.80657+ | 4 | 9.51600- | 3 | 28 | 3102 | 2127 |
| 4.81434+ | 4 | 9.51310- | 3 | 4.95947+ | 4 | 9.43010- | 3 | 4.95964+ | 4 | 9.57330- | 3 | 28 | 3102 | 2128 |
| 4.95975+ | 4 | 8.71200- | 3 | 4.95983+ | 4 | 7.51400- | 3 | 4.95997+ | 4 | 1.90670- | 2 | 28 | 3102 | 2129 |
| 4.95011+ | 4 | 1.19950- | 2 | 4.96017+ | 4 | 7.64000- | 3 | 4.96025+ | 4 | 8.82800- | 3 | 28 | 3102 | 2130 |
| 4.96036+ | 4 | 9.01160- | 3 | 4.96053+ | 4 | 9.44450- | 3 | 4.96115+ | 4 | 9.48070- | 3 | 28 | 3102 | 2131 |
| 4.96169+ | 4 | 9.47740- | 3 | 5.14951+ | 4 | 9.31630- | 3 | 5.14967+ | 4 | 9.93300- | 3 | 28 | 3102 | 2132 |
| 5.14977+ | 4 | 8.53900- | 3 | 5.14996+ | 4 | 2.11290- | 2 | 5.15015+ | 4 | 8.73400- | 3 | 28 | 3102 | 2133 |
| 5.15023+ | 4 | 8.52800- | 3 | 5.15033+ | 4 | 8.99200- | 3 | 5.15049+ | 4 | 9.36350- | 3 | 28 | 3102 | 2134 |
| 5.15105+ | 4 | 9.43570- | 3 | 5.15155+ | 4 | 9.43670- | 3 | 5.30367+ | 4 | 9.41280- | 3 | 28 | 3102 | 2135 |
| 5.34463+ | 4 | 9.39760- | 3 | 5.35592+ | 4 | 9.37900- | 3 | 5.36361+ | 4 | 9.33510- | 3 | 28 | 3102 | 2136 |
| 5.37241+ | 4 | 9.03520- | 3 | 5.37483+ | 4 | 8.77940- | 3 | 5.37761+ | 4 | 8.59180- | 3 | 28 | 3102 | 2137 |
| 5.38900+ | 4 | 9.32170- | 3 | 5.38240+ | 4 | 1.01920- | 2 | 5.38759+ | 4 | 9.72350- | 3 | 26 | 3102 | 2138 |
| 5.39116+ | 4 | 9.54150- | 3 | 5.47792+ | 4 | 9.38370- | 3 | 5.47904+ | 4 | 9.30800- | 3 | 26 | 3102 | 2139 |
| 5.47934+ | 4 | 9.36720- | 3 | 5.47955+ | 4 | 9.66200- | 3 | 5.47970+ | 4 | 9.49000- | 3 | 28 | 3102 | 2140 |
| 5.47979+ | 4 | 9.57700- | 3 | 5.47985+ | 4 | 1.16800- | 2 | 5.47990+ | 4 | 1.37800- | 2 | 28 | 3102 | 2141 |
| 5.47997+ | 4 | 6.46670- | 3 | 5.48004+ | 4 | -2.63200- | 2 | 5.48014+ | 4 | 1.20800- | 2 | 28 | 3102 | 2142 |
| 5.48021+ | 4 | 9.82800- | 3 | 5.48030+ | 4 | 9.38300- | 3 | 5.48045+ | 4 | 9.69000- | 3 | 28 | 3102 | 2143 |
| 5.48066+ | 4 | 9.30580- | 3 | 5.48142+ | 4 | 9.38640- | 3 | 5.48306+ | 4 | 9.38360- | 3 | 28 | 3102 | 2144 |
| 5.50164+ | 4 | 9.37910- | 3 | 5.62876+ | 4 | 9.33690- | 3 | 5.62942+ | 4 | 9.32450- | 3 | 26 | 3102 | 2145 |
| 5.62961+ | 4 | 9.01600- | 3 | 5.62973+ | 4 | 8.35600- | 3 | 5.62982+ | 4 | 6.92500- | 3 | 28 | 3102 | 2146 |
| 5.62997+ | 4 | 9.17670- | 3 | 5.63012+ | 4 | 5.63300- | 3 | 5.63018+ | 4 | 8.28900- | 3 | 28 | 3102 | 2147 |
| 5.63027+ | 4 | 8.84900- | 3 | 5.63139+ | 4 | 9.16600- | 3 | 5.63057+ | 4 | 9.38130- | 3 | 28 | 3102 | 2148 |
| 5.63084+ | 4 | 9.32010- | 3 | 5.63268+ | 4 | 9.35600- | 3 | 5.68953+ | 4 | 9.30960- | 3 | 28 | 3102 | 2149 |
| 5.68968+ | 4 | 9.55800- | 3 | 5.68978+ | 4 | 9.48400- | 3 | 5.68997+ | 4 | 9.09600- | 3 | 28 | 3102 | 2150 |
| 5.69015+ | 4 | 1.12660- | 2 | 5.69022+ | 4 | 9.47600- | 3 | 5.69032+ | 4 | 9.58800- | 3 | 28 | 3102 | 2151 |
| 5.69047+ | 4 | 9.31950- | 3 | 5.69148+ | 4 | 9.34740- | 3 | 5.91933+ | 4 | 9.32020- | 3 | 28 | 3102 | 2152 |
| 5.99231+ | 4 | 9.31370- | 3 | 6.03448+ | 4 | 9.31000- | 3 | 6.11287+ | 4 | 9.29770- | 3 | 28 | 3102 | 2153 |
| 6.16623+ | 4 | 9.27430- | 3 | 6.20256+ | 4 | 9.24420- | 3 | 6.23674+ | 4 | 9.20670- | 3 | 28 | 3102 | 2154 |
| 6.28000+ | 4 | 9.10580- | 3 | 6.33037+ | 4 | 9.15750- | 3 | 6.39411+ | 4 | 9.17970- | 3 | 28 | 3102 | 2155 |
| 6.43750+ | 4 | 9.17420- | 3 | 6.46703+ | 4 | 9.12140- | 3 | 6.48714+ | 4 | 8.98150- | 3 | 28 | 3102 | 2156 |
| 6.50082+ | 4 | 8.70750- | 3 | 6.51014+ | 4 | 8.34770- | 3 | 6.52080+ | 4 | 8.08370- | 3 | 28 | 3102 | 2157 |
| 6.52552+ | 4 | 8.43460- | 3 | 6.53000+ | 4 | 9.13620- | 3 | 6.53920+ | 4 | 1.07610- | 2 | 28 | 3102 | 2158 |
| 6.54986+ | 4 | 1.00540- | 2 | 6.55918+ | 4 | 9.70260- | 3 | 6.57286+ | 4 | 9.43220- | 3 | 28 | 3102 | 2159 |

| | | | | | | | | | | | | | | |
|------------|---|------------|---|------------|---|------------|---|------------|---|------------|---|----|------|--------|
| 6.09297+ | 4 | 9.29230- | 3 | 6.02250+ | 4 | 9.23360- | 3 | 6.73752+ | 4 | 9.19260- | 3 | 28 | 3102 | 2160 |
| 6.00984+ | 4 | 1.79010- | 2 | 7.05836+ | 4 | 1.70450- | 2 | 7.12902+ | 4 | 1.70290- | 2 | 28 | 3102 | 2161 |
| 7.12955+ | 4 | 1.72000- | 2 | 7.12909+ | 4 | 1.68620- | 2 | 7.12979+ | 4 | 1.72980- | 2 | 28 | 3102 | 2162 |
| 7.12997+ | 4 | 1.54070- | 2 | 7.13014+ | 4 | 1.75170- | 2 | 7.13021+ | 4 | 1.71330- | 2 | 28 | 3102 | 2163 |
| 7.13031+ | 4 | 1.59020- | 2 | 7.13045+ | 4 | 1.70550- | 2 | 7.13143+ | 4 | 1.70320- | 2 | 28 | 3102 | 2164 |
| 7.16288+ | 4 | 1.70330- | 2 | 7.53019+ | 4 | 1.69060- | 2 | 7.56694+ | 4 | 1.69820- | 2 | 28 | 3102 | 2165 |
| 7.59395+ | 4 | 1.69740- | 2 | 7.59023+ | 4 | 1.69700- | 2 | 7.60000+ | 4 | 1.69730- | 2 | 28 | 3102 | 2166 |
| 7.60869+ | 4 | 1.69060- | 2 | 7.70343+ | 4 | 1.69700- | 2 | 7.95977+ | 4 | 1.69420- | 2 | 28 | 3102 | 2167 |
| 7.97570+ | 4 | 1.69400- | 2 | 8.20436+ | 4 | 1.69100- | 2 | 8.32579+ | 4 | 1.69040- | 2 | 28 | 3102 | 2168 |
| 8.36283+ | 4 | 1.60970- | 2 | 8.54122+ | 4 | 1.68730- | 2 | 8.57014+ | 4 | 1.68620- | 2 | 28 | 3102 | 2169 |
| 8.09191+ | 4 | 1.60460- | 2 | 8.62642+ | 4 | 1.67900- | 2 | 8.64992+ | 4 | 1.66420- | 2 | 28 | 3102 | 2170 |
| 8.66591+ | 4 | 1.62970- | 2 | 8.67079+ | 4 | 9.64950- | 3 | 8.68420+ | 4 | 8.61660- | 3 | 28 | 3102 | 2171 |
| 8.08925+ | 4 | 8.24030- | 3 | 8.69268+ | 4 | 8.22450- | 3 | 8.70000+ | 4 | 1.07820- | 2 | 28 | 3102 | 2172 |
| 8.70732+ | 4 | 1.30190- | 2 | 8.71075+ | 4 | 1.30600- | 2 | 8.72321+ | 4 | 1.21030- | 2 | 28 | 3102 | 2173 |
| 8.73409+ | 4 | 1.14050- | 2 | 8.74705+ | 4 | 1.10060- | 2 | 8.75008+ | 4 | 1.10590- | 2 | 28 | 3102 | 2174 |
| 8.77358+ | 4 | 1.09230- | 2 | 8.80009+ | 4 | 1.06750- | 2 | 8.85878+ | 4 | 1.00560- | 2 | 28 | 3102 | 2175 |
| 8.07642+ | 4 | 1.00020- | 2 | 8.94029+ | 4 | 1.08420- | 2 | 9.04267+ | 4 | 1.00240- | 2 | 28 | 3102 | 2176 |
| 9.10401+ | 4 | 1.00080- | 2 | 9.13004+ | 4 | 1.07600- | 2 | 9.20339+ | 4 | 1.07570- | 2 | 28 | 3102 | 2177 |
| 9.27241+ | 4 | 1.00600- | 2 | 9.29716+ | 4 | 1.06690- | 2 | 9.34277+ | 4 | 1.07680- | 2 | 28 | 3102 | 2178 |
| 9.35000+ | 4 | 1.07930- | 2 | 9.40062+ | 4 | 1.09300- | 2 | 9.42755+ | 4 | 1.09450- | 2 | 28 | 3102 | 2179 |
| 9.50792+ | 4 | 1.00690- | 2 | 9.51745+ | 4 | 1.08590- | 2 | 9.59739+ | 4 | 1.05110- | 2 | 28 | 3102 | 2180 |
| 9.09985+ | 4 | 1.00100- | 2 | 9.60007+ | 4 | 1.07070- | 2 | 9.69685+ | 4 | 1.07600- | 2 | 28 | 3102 | 2181 |
| 9.74894+ | 4 | 1.00070- | 2 | 9.75050+ | 4 | 1.06690- | 2 | 9.78440+ | 4 | 1.05280- | 2 | 28 | 3102 | 2182 |
| 9.80894+ | 4 | 1.00320- | 2 | 9.82497+ | 4 | 9.84000- | 3 | 9.83615+ | 4 | 9.57670- | 3 | 28 | 3102 | 2183 |
| 9.84377+ | 4 | 9.05560- | 3 | 9.80000+ | 4 | 1.06930- | 2 | 9.07623+ | 4 | 1.00110- | 2 | 28 | 3102 | 2184 |
| 9.85086+ | 4 | 1.20000- | 2 | 9.89503+ | 4 | 1.17710- | 2 | 9.90508+ | 4 | 1.14920- | 2 | 28 | 3102 | 2185 |
| 9.91146+ | 4 | 1.13470- | 2 | 9.93000+ | 4 | 1.10240- | 2 | 9.95111+ | 4 | 1.09280- | 2 | 28 | 3102 | 2186 |
| 9.97106+ | 4 | 1.00510- | 2 | 1.00000+ | 5 | 1.07940- | 2 | 1.00000+ | 5 | 0.83000- | 2 | 28 | 3102 | 2187 |
| .10200E 06 | | .10140E-01 | | .10370E 06 | | .55400E-02 | | .10670E 06 | | .39420E-01 | | 28 | 3102 | 2188 |
| .10720E 06 | | .37130E-01 | | .10070E 06 | | .51300E-01 | | .11070E 06 | | .21960E-01 | | 28 | 3102 | 2189 |
| .11170E 06 | | .29200E-01 | | .11470E 06 | | .55500E-02 | | .11570E 06 | | .34400E-02 | | 28 | 3102 | 2190 |
| .11670E 06 | | .77200E-02 | | .12020E 06 | | .36500E-01 | | .12120E 06 | | .45490E-01 | | 28 | 3102 | 2191 |
| .12120E 06 | | .35510E-01 | | .12320E 06 | | .22400E-01 | | .12420E 06 | | .25470E-01 | | 28 | 3102 | 2192 |
| .12520E 06 | | .32490E-01 | | .12720E 06 | | .17300E-01 | | .12620E 06 | | .60000E-02 | | 28 | 3102 | 2193 |
| .13020E 06 | | .13420E-01 | | .13120E 06 | | .11900E-01 | | .13320E 06 | | .15460E-01 | | 28 | 3102 | 2194 |
| .13520E 06 | | .27200E-01 | | .13020E 06 | | .24700E-01 | | .13720E 06 | | .32360E-01 | | 28 | 3102 | 2195 |
| .13620E 06 | | .33440E-01 | | .13970E 06 | | .24600E-01 | | .14020E 06 | | .28000E-01 | | 28 | 3102 | 2196 |
| .14420E 06 | | .10910E-01 | | .14620E 06 | | .25140E-01 | | .14920E 06 | | .13990E-01 | | 28 | 3102 | 2197 |
| .15020E 06 | | .10930E-01 | | .15320E 06 | | .35600E-02 | | .15670E 06 | | .96400E-02 | | 28 | 3102 | 2198 |
| .15770E 06 | | .11500E-01 | | .16070E 06 | | .21700E-01 | | .16270E 06 | | .31890E-01 | | 28 | 3102 | 2199 |
| .16570E 06 | | .96500E-02 | | .16770E 06 | | .12520E-01 | | .17000E 06 | | .25000E-01 | | 28 | 3102 | 2200 |
| .17200E 06 | | .25000E-01 | | .16000E 06 | | .99000E-02 | | .19000E 06 | | .13000E-01 | | 28 | 3102 | 2201 |
| .18600E 06 | | .14000E-01 | | .20600E 06 | | .10000E-01 | | .21600E 06 | | .19000E-01 | | 28 | 3102 | 2202 |
| .21000E 06 | | .10000E-01 | | .22000E 06 | | .13000E-01 | | .22400E 06 | | .98000E-02 | | 28 | 3102 | 2203 |
| .23200E 06 | | .16000E-01 | | .24000E 06 | | .10000E-01 | | .24600E 06 | | .15500E-01 | | 28 | 3102 | 2204 |
| .25200E 06 | | .98000E-02 | | .25000E 06 | | .14000E-01 | | .26600E 06 | | .98000E-02 | | 28 | 3102 | 2205 |
| .27200E 06 | | .80000E-02 | | .27000E 06 | | .11500E-01 | | .28400E 06 | | .11000E-01 | | 28 | 3102 | 2206 |
| .29200E 06 | | .15000E-01 | | .29000E 06 | | .10000E-01 | | .29800E 06 | | .18500E-01 | | 28 | 3102 | 2207 |
| .30200E 06 | | .13000E-01 | | .31400E 06 | | .10000E-01 | | .33000E 06 | | .90000E-02 | | 28 | 3102 | 2208 |
| .34600E 06 | | .15500E-01 | | .35000E 06 | | .15000E-01 | | .36000E 06 | | .11500E-01 | | 28 | 3102 | 2209 |
| .37000E 06 | | .11000E-01 | | .38000E 06 | | .95000E-02 | | .40000E 06 | | .85000E-02 | | 28 | 3102 | 2210 |
| .43000E 06 | | .10000E-01 | | .45000E 06 | | .95000E-02 | | .51000E 06 | | .11500E-01 | | 28 | 3102 | 2211 |
| .50000E 06 | | .65000E-02 | | .70000E 06 | | .78000E-02 | | .60000E 06 | | .72000E-02 | | 28 | 3102 | 2212 |
| .90000E 06 | | .74000E-02 | | .10000E 07 | | .76000E-02 | | .12000E 07 | | .76000E-02 | | 28 | 3102 | 2213 |
| .14000E 07 | | .77000E-02 | | .16000E 07 | | .68000E-02 | | .18000E 07 | | .57000E-02 | | 28 | 3102 | 2214 |
| .20000E 07 | | .49000E-02 | | .25000E 07 | | .36000E-02 | | .30000E 07 | | .27000E-02 | | 28 | 3102 | 2215 |
| .35000E 07 | | .21000E-02 | | .40000E 07 | | .16000E-02 | | .50000E 07 | | .11000E-02 | | 28 | 3102 | 2216 |
| .50000E 07 | | .25000E-03 | | .80000E 07 | | .45000E-03 | | .10000E 08 | | .34000E-03 | | 28 | 3102 | 2217 |
| .15000E 08 | | .27000E-03 | | .20000E 08 | | .24000E-03 | | .00000E 00 | | .00000E 00 | | 28 | 3102 | 2218 |
| .00000E 00 | | .00000E 00 | | | | | | | | | | 28 | 3 | 0 2219 |

| | | | | | | | | |
|------------|------------|------------|------------|------------|------------|----|------|------|
| 2.00000+ 4 | 5.31620+ 1 | 0 | 99 | 0 | 0 | 28 | 3103 | 2220 |
| 0.00000+ 0 | 3.94700+ 5 | 0 | J | 1 | 101 | 28 | 3103 | 2221 |
| 101 | 2 | | | | | 28 | 3103 | 2222 |
| .19000E-04 | .00000E 00 | .10000E 06 | .19964E-05 | .53300E 06 | .19964E-05 | 28 | 3103 | 2223 |
| .05000E 04 | .17853E-04 | .67000E 06 | .27123E-04 | .68000E 06 | .36321E-04 | 28 | 3103 | 2224 |
| .09900E 06 | .45520E-04 | .70000E 06 | .54005E-04 | .73000E 06 | .84452E-04 | 28 | 3103 | 2225 |
| .75000E 06 | .10784E-03 | .80000E 06 | .17166E-03 | .85000E 06 | .25596E-03 | 28 | 3103 | 2226 |
| .40000E 06 | .37772E-03 | .95000E 06 | .54135E-03 | .10000E 07 | .77629E-03 | 28 | 3103 | 2227 |
| .10400E 07 | .11362E-02 | .11400E 07 | .18593E-02 | .11400E 07 | .24352E-02 | 28 | 3103 | 2228 |
| .12000E 07 | .30850E-02 | .12000E 07 | .36639E-02 | .13000E 07 | .40254E-02 | 28 | 3103 | 2229 |
| .13400E 07 | .47439E-02 | .13600E 07 | .54596E-02 | .14000E 07 | .65345E-02 | 28 | 3103 | 2230 |
| .15000E 07 | .86871E-02 | .16000E 07 | .10840E-01 | .17000E 07 | .14418E-01 | 28 | 3103 | 2231 |
| .16000E 07 | .18710E-01 | .19000E 07 | .23714E-01 | .20000E 07 | .28006E-01 | 28 | 3103 | 2232 |
| .20740E 07 | .31709E-01 | .21000E 07 | .33176E-01 | .21900E 07 | .38378E-01 | 28 | 3103 | 2233 |
| .22000E 07 | .39327E-01 | .23000E 07 | .54321E-01 | .24000E 07 | .65278E-01 | 28 | 3103 | 2234 |
| .25000E 07 | .72670E-01 | .26000E 07 | .83599E-01 | .27000E 07 | .99520E-01 | 28 | 3103 | 2235 |
| .28000E 07 | .11045E 00 | .29000E 07 | .12708E 00 | .29400E 07 | .14001E 00 | 28 | 3103 | 2236 |
| .29600E 07 | .14362E 00 | .29000E 07 | .14366E 00 | .30000E 07 | .14015E 00 | 28 | 3103 | 2237 |
| .30400E 07 | .13309E 00 | .30000E 07 | .13173E 00 | .31200E 07 | .13680E 00 | 28 | 3103 | 2238 |
| .32000E 07 | .15619E 00 | .32000E 07 | .16771E 00 | .32800E 07 | .16703E 00 | 28 | 3103 | 2239 |
| .33000E 07 | .16457E 00 | .33200E 07 | .16216E 00 | .33400E 07 | .16082E 00 | 28 | 3103 | 2240 |
| .34000E 07 | .17461E 00 | .35000E 07 | .19856E 00 | .36000E 07 | .21844E 00 | 28 | 3103 | 2241 |
| .37000E 07 | .23118E 00 | .38000E 07 | .24108E 00 | .39000E 07 | .25239E 00 | 28 | 3103 | 2242 |
| .40000E 07 | .25659E 00 | .41000E 07 | .26649E 00 | .42000E 07 | .28281E 00 | 28 | 3103 | 2243 |
| .43000E 07 | .29415E 00 | .44000E 07 | .30191E 00 | .45000E 07 | .30255E 00 | 28 | 3103 | 2244 |
| .47000E 07 | .30415E 00 | .46000E 07 | .31564E 00 | .50000E 07 | .34006E 00 | 28 | 3103 | 2245 |
| .50000E 07 | .37315E 00 | .54000E 07 | .38821E 00 | .55000E 07 | .39615E 00 | 28 | 3103 | 2246 |
| .56000E 07 | .42063E 00 | .59000E 07 | .42879E 00 | .60000E 07 | .43516E 00 | 28 | 3103 | 2247 |
| .61000E 07 | .44177E 00 | .63000E 07 | .45499E 00 | .64000E 07 | .46336E 00 | 28 | 3103 | 2248 |
| .65000E 07 | .46821E 00 | .66000E 07 | .47314E 00 | .70000E 07 | .44572E 00 | 28 | 3103 | 2249 |
| .75000E 07 | .49427E 00 | .80000E 07 | .49933E 00 | .85000E 07 | .58608E 00 | 28 | 3103 | 2250 |
| .90000E 07 | .51163E 00 | .95000E 07 | .51220E 00 | .10000E 08 | .58773E 00 | 28 | 3103 | 2251 |
| .10500E 08 | .50178E 00 | .11000E 08 | .48816E 00 | .11500E 08 | .47394E 00 | 28 | 3103 | 2252 |
| .12000E 08 | .44761E 00 | .12250E 08 | .43434E 00 | .13000E 08 | .37315E 00 | 28 | 3103 | 2253 |
| .13500E 08 | .33066E 00 | .14000E 08 | .28634E 00 | .15000E 08 | .21564E 00 | 28 | 3103 | 2254 |
| .16000E 08 | .16805E 00 | .17000E 08 | .14963E 00 | .18000E 08 | .13828E 00 | 28 | 3103 | 2255 |
| .19000E 08 | .13216E 00 | .20000E 08 | .12645E 00 | | | 28 | 3103 | 2256 |
| .00000E 00 | .00000E 00 | | | | | 28 | 3 | 2257 |
| 2.00000+ 4 | 5.81820+ 1 | 0 | 99 | 0 | 0 | 28 | 3104 | 2258 |
| 0.00000+ 0 | 5.9520E+06 | 0 | J | 1 | 10 | 28 | 3104 | 2259 |
| 10 | 2 | | | | | 28 | 3104 | 2260 |
| .05000E 07 | .00000E 00 | .74300E 07 | .34597E-03 | .75000E 07 | .36360E-03 | 28 | 3104 | 2261 |
| .08000E 07 | .10935E-02 | .13000E 08 | .17694E-01 | .14000E 08 | .20344E-01 | 28 | 3104 | 2262 |
| .15000E 08 | .22572E-01 | .16000E 08 | .23274E-01 | .16000E 08 | .24102E-01 | 28 | 3104 | 2263 |
| .23000E 08 | .24678E-01 | .60000E 00 | .00000E 00 | .00000E 00 | .00000E 00 | 28 | 3104 | 2264 |
| .00000E 00 | .00000E 00 | | | | | 28 | 3 | 2265 |
| 2.00000+ 4 | 5.81820+ 1 | 0 | 99 | 0 | 0 | 28 | 3107 | 2266 |
| 0.00000+ 0 | 2.89020+ 6 | 0 | 0 | 1 | 32 | 28 | 3107 | 2267 |
| 32 | 2 | | | | | 28 | 3107 | 2268 |
| .10000E-04 | .00000E 00 | .10000E 07 | .35062E-02 | .20000E 07 | .65900E-02 | 28 | 3107 | 2269 |
| .30000E 07 | .10951E-01 | .35000E 07 | .14576E-01 | .40000E 07 | .18296E-01 | 28 | 3107 | 2270 |
| .45000E 07 | .23275E-01 | .50000E 07 | .29064E-01 | .55000E 07 | .37737E-01 | 28 | 3107 | 2271 |
| .60000E 07 | .47130E-01 | .70000E 07 | .63078E-01 | .75000E 07 | .79331E-01 | 28 | 3107 | 2272 |
| .80000E 07 | .75422E-01 | .90000E 07 | .85136E-01 | .10000E 08 | .92689E-01 | 28 | 3107 | 2273 |
| .11000E 08 | .98332E-01 | .12000E 08 | .10101E 00 | .12500E 08 | .10795E 00 | 28 | 3107 | 2274 |
| .13000E 08 | .10316E 00 | .13000E 08 | .10311E 00 | .14000E 08 | .10734E 00 | 28 | 3107 | 2275 |
| .14500E 08 | .99081E-01 | .15000E 08 | .94384E-01 | .16000E 08 | .84990E-01 | 28 | 3107 | 2276 |
| .16500E 08 | .79249E-01 | .17000E 08 | .72785E-01 | .17500E 08 | .67764E-01 | 28 | 3107 | 2277 |
| .18000E 08 | .62743E-01 | .18500E 08 | .57722E-01 | .19000E 08 | .54142E-01 | 28 | 3107 | 2278 |
| .19500E 08 | .49842E-01 | .20000E 08 | .45542E-01 | .00000E 00 | .00000E 00 | 28 | 3107 | 2279 |

| | | | | | | | | | | | | | | |
|-----------|----|------------|----|-----------|----|------------|-----|-----------|----|------------|----|----|------|------|
| .98700E | 06 | .10229E | 04 | .10323E | 07 | .10577E | 00 | .10750E | 07 | .11407E | 00 | 28 | 3253 | 2340 |
| .11350E | 07 | .11906E | 03 | .11790E | 07 | .11133E | 00 | .12280E | 07 | .11587E | 00 | 28 | 3253 | 2341 |
| .12850E | 07 | .11737E | 00 | .13350E | 07 | .11520E | 00 | .14320E | 07 | .11516E | 00 | 28 | 3253 | 2342 |
| .14810E | 07 | .11433E | 00 | .16030E | 07 | .11425E | 00 | .18000E | 07 | .11146E | 00 | 28 | 3253 | 2343 |
| .19000E | 07 | .11190E | 00 | .20000E | 07 | .11300E | 00 | .21000E | 07 | .10816E | 00 | 28 | 3253 | 2344 |
| .22000E | 07 | .10907E | 00 | .23000E | 07 | .10965E | 00 | .24000E | 07 | .10658E | 00 | 28 | 3253 | 2345 |
| .25000E | 07 | .10829E | 00 | .26000E | 07 | .10255E | 00 | .27000E | 07 | .10413E | 00 | 28 | 3253 | 2346 |
| .28000E | 07 | .10278E | 00 | .30000E | 07 | .95480E-01 | | .32000E | 07 | .95763E-01 | | 28 | 3253 | 2347 |
| .34000E | 07 | .94270E-01 | | .36000E | 07 | .94900E-01 | | .38000E | 07 | .90443E-01 | | 28 | 3253 | 2348 |
| .40000E | 07 | .89534E-01 | | .50000E | 07 | .73454E-01 | | .60000E | 07 | .63708E-01 | | 28 | 3253 | 2349 |
| .50000E | 07 | .59501E-01 | | .10000E | 08 | .55390E-01 | | .12000E | 08 | .57406E-01 | | 28 | 3253 | 2350 |
| .14000E | 08 | .62057E-01 | | .16000E | 08 | .56580E-01 | | .20000E | 08 | .49977E-01 | | 28 | 3253 | 2351 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 3 | 0 |
| 2.00000+ | 4 | 5.81426+ | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 26 | 4 | 2 |
| 0.00000+ | 0 | 5.81426+ | 1 | 0 | 0 | 2 | 361 | 19 | | | | 28 | 4 | 2 |
| 1.00000+ | 0 | 1.14582- | 2 | 5.90731- | 5 | -4.14354- | 10 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 9.99623- | 1 | 2.06230- | 2 | 2.62527- | 4 | 9.55306- | 7 | 28 | 4 | 2 |
| -2.65665- | 8 | -1.38728- | 10 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 4.21882- | 4 | 3.51502- | 6 | -4.66250- | 8 | 5.47814- | 10 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 1.77193- | 4 | -2.616152- | 2 | 28 | 4 | 2 |
| 9.99094- | 1 | 3.81767- | 2 | 7.15427- | 4 | 8.28254- | 6 | -4.69758- | 8 | -1.33696- | 9 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 4.04938- | 4 | -2.94417- | 2 | 9.95504- | 1 | 4.68394- | 2 | 1.08386- | 3 | 1.58987- | 5 | 28 | 4 | 2 |
| 1.57833- | 6 | 1.80772- | 9 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 4.04653- | 5 | -7.73310- | 6 | 7.02646- | 4 | -3.81512- | 2 | 9.97767- | 1 | 5.54662- | 2 | 28 | 4 | 2 |
| 1.52574- | 3 | 2.70047- | 5 | 1.07649- | 7 | -5.23161- | 9 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | -8.17838- | 10 | 1.44994- | 7 | -1.53750- | 5 | 1.07312- | 3 | -4.64012- | 2 | 28 | 4 | 2 |
| 9.96882- | 1 | 0.40658- | 2 | 2.04117- | 3 | 4.22150- | 5 | 3.74534- | 7 | -6.62243- | 9 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 1.38762- | 11 | -2.68375- | 9 | 3.20159- | 7 | -2.64654- | 5 | 28 | 4 | 2 |
| 1.51630- | 5 | -5.54127- | 2 | 9.95456- | 1 | 7.26421- | 2 | 2.63009- | 3 | 6.21769- | 5 | 28 | 4 | 2 |
| 8.32078- | 7 | 1.54450- | 9 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | -2.36222- | 13 | 4.92015- | 11 | -6.46651- | 9 | 28 | 4 | 2 |
| 6.00973- | 7 | -4.17022- | 5 | 2.03248- | 3 | -6.39947- | 2 | 9.94671- | 1 | 8.11964- | 2 | 28 | 4 | 2 |
| 3.29229- | 3 | 6.75183- | 5 | 1.43599- | 6 | 1.15457- | 6 | -2.58823- | 9 | 5.41443- | 10 | 28 | 4 | 2 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 4.03015- | 15 | -8.95285- | 13 | 28 | 4 | 2 |
| 1.27290- | 10 | -1.32554- | 6 | 1.04357- | 6 | -6.16568- | 5 | 2.62163- | 3 | -7.25507- | 2 | 28 | 4 | 2 |
| 9.93346- | 1 | 8.97269- | 2 | 4.02747- | 3 | 1.18358- | 4 | 2.30335- | 6 | 2.74045- | 8 | 28 | 4 | 2 |
| -1.20268- | 8 | -6.45537- | 5 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | -6.83622- | 17 | 28 | 4 | 2 |
| 1.51992- | 14 | -2.46722- | 12 | 2.79786- | 10 | -2.45453- | 6 | 1.67340- | 6 | -8.69779- | 5 | 28 | 4 | 2 |
| 3.28364- | 3 | -8.10823- | 2 | 9.91874- | 1 | 9.82390- | 2 | 4.63547- | 3 | 1.56821- | 4 | 28 | 4 | 2 |
| 3.46026- | 6 | 4.45780- | 6 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 |
| 1.17792- | 18 | -1.83474- | 16 | 4.72015- | 14 | -5.75731- | 12 | 5.52462- | 10 | -4.21861- | 8 | 28 | 4 | 2 |
| 2.54526- | 5 | -1.18280- | 4 | 4.01832- | 3 | -8.95395- | 2 | 9.90256- | 1 | 1.96726- | 1 | 28 | 4 | 2 |
| 5.71604- | 2 | 2.00244- | 4 | 5.06786- | 6 | 9.45786- | 8 | -2.45526- | 8 | -2.13859- | 8 | 28 | 4 | 2 |
| 0.10000+ | 0 | -2.01652- | 10 | 2.41741- | 18 | -7.52513- | 16 | 1.16154- | 13 | -1.26313- | 11 | 28 | 4 | 2 |
| 1.06683- | 9 | -6.54790- | 6 | 3.71327- | 6 | -1.56212- | 4 | 4.82544- | 3 | -9.56718- | 2 | 28 | 4 | 2 |
| 9.08493- | 1 | 1.15169- | 1 | 0.66902- | 3 | 2.55112- | 4 | 6.98640- | 6 | 1.23752- | 7 | 28 | 4 | 2 |
| 8.99606- | 0 | 0.00000+ | 0 | 0.00000+ | 0 | -3.25687- | 20 | 9.75873- | 18 | -2.13601- | 15 | 28 | 4 | 2 |
| 2.55346- | 13 | -2.31854- | 11 | 1.73419- | 9 | -1.06212- | 7 | 5.23684- | 6 | -2.01370- | 4 | 28 | 4 | 2 |
| 5.70490- | 3 | -1.06520- | 1 | 9.86585- | 1 | 1.23624- | 1 | 7.69391- | 3 | 3.16646- | 4 | 28 | 4 | 2 |

| | | | | | | | | | | | | | | | |
|-------------|----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----|---|---|------|
| 9.24527- | 0 | 2.24151- | 7 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | -1.37288- | 19 | 28 | 4 | 2 | 2400 |
| 2.70058- | 17 | -5.11100- | 15 | 5.10065- | 13 | -4.19510- | 11 | 2.83973- | 9 | -1.28707- | 7 | 28 | 4 | 2 | 2401 |
| 7.18071- | 6 | -2.54377- | 4 | 0.60629- | 3 | -1.14958- | 1 | 9.84532- | 1 | 1.32032- | 1 | 26 | 4 | 2 | 2402 |
| 8.79072- | 3 | 3.87320- | 4 | 1.24837- | 5 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 | 2403 |
| 0.00000+ | 0 | -3.26971- | 19 | 0.29652- | 17 | -1.09958- | 14 | 9.78850- | 13 | -7.21382- | 11 | 28 | 4 | 2 | 2404 |
| 4.46839- | 9 | -2.29800- | 7 | 9.61483- | 6 | -3.15849- | 4 | 7.67938- | 3 | -1.23359- | 1 | 28 | 4 | 2 | 2405 |
| 9.02035- | 1 | 1.40412- | 1 | 9.90874- | 3 | 4.67668- | 4 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 | 2406 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | -9.06700- | 19 | 1.32274- | 16 | -2.19381- | 14 | 26 | 4 | 2 | 2407 |
| 1.75975- | 12 | -1.19226- | 10 | 0.79791- | 9 | -3.24195- | 7 | 1.26144- | 5 | -3.36396- | 4 | 26 | 4 | 2 | 2408 |
| 6.77387- | 5 | -1.31729- | 3 | 9.79994- | 1 | 1.48760- | 1 | 1.11979- | 2 | 0.00000+ | 0 | 28 | 4 | 2 | 2409 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 1.33974- | 20 | -1.91163- | 18 | 28 | 4 | 2 | 2410 |
| 3.04731- | 16 | -4.12650- | 14 | 5.02736- | 12 | -1.69137- | 10 | 1.00484- | 8 | -4.46897- | 7 | 28 | 4 | 2 | 2411 |
| 1.02598- | 5 | -4.66624- | 4 | 9.93941- | 3 | -1.40069- | 1 | 9.77510- | 1 | 1.57076- | 1 | 28 | 4 | 2 | 2412 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 0.00000+ | 0 | 28 | 4 | 2 | 2413 |
| 2.84743- | 20 | -4.84395- | 16 | 0.47349- | 16 | -7.40100- | 14 | 5.01707- | 12 | -2.91873- | 10 | 26 | 4 | 2 | 2414 |
| 1.44874- | 8 | -6.03887- | 7 | 2.86360- | 5 | -2.57138- | 4 | 1.11757- | 2 | -1.46375- | 1 | 28 | 4 | 2 | 2415 |
| 9.74683- | 1 | | | | | | | | | | | 28 | 4 | 2 | 2416 |
| 0.00000+ | 0 | 0.00000+ | 0 | 0 | 0 | 0 | 0 | 1 | 61 | | | 28 | 4 | 2 | 2417 |
| | 61 | | | | | | | | | | | 28 | 4 | 2 | 2418 |
| 0.00000E 00 | | 0.10000E-04 | | 0 | 0 | 0 | 0 | 1 | 0 | | | 28 | 4 | 2 | 2419 |
| 0.00000E 00 | | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2420 |
| 0.00000E 00 | | 0.25000E 05 | | 0 | 0 | 0 | 0 | 1 | 0 | | | 28 | 4 | 2 | 2421 |
| 0.00000E 00 | | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2422 |
| 0.00000E 00 | | 0.50000E 15 | | 0 | 0 | 0 | 0 | 1 | 0 | | | 28 | 4 | 2 | 2423 |
| 0.33333E-01 | | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2424 |
| 0.00000E 00 | | 0.10000E 06 | | 0 | 0 | 0 | 0 | 1 | 0 | | | 28 | 4 | 2 | 2425 |
| 0.10000E-01 | | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2426 |
| 0.00000E 00 | | 0.12500E 08 | | 0 | 0 | 0 | 0 | 1 | 0 | | | 28 | 4 | 2 | 2427 |
| 0.23333E-01 | | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2428 |
| 0.00000E 00 | | 0.15000E 00 | | 0 | 0 | 0 | 0 | 1 | 0 | | | 28 | 4 | 2 | 2429 |
| 0.40000E-01 | | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2430 |
| 0.00000E 00 | | 0.17500E 06 | | 0 | 0 | 0 | 0 | 1 | 0 | | | 28 | 4 | 2 | 2431 |
| 0.00000E-01 | | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2432 |
| 0.00000E 00 | | 0.20000E 00 | | 0 | 0 | 0 | 0 | 2 | 0 | | | 28 | 4 | 2 | 2433 |
| 0.73333E-01 | | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2434 |
| 0.00000E 00 | | 0.22500E 06 | | 0 | 0 | 0 | 0 | 2 | 0 | | | 28 | 4 | 2 | 2435 |
| 0.93333E-01 | | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2436 |
| 0.00000E 00 | | 0.25000E 06 | | 0 | 0 | 0 | 0 | 2 | 0 | | | 28 | 4 | 2 | 2437 |
| 0.10000E 00 | | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2438 |
| 0.00000E 00 | | 0.27500E 06 | | 0 | 0 | 0 | 0 | 2 | 0 | | | 28 | 4 | 2 | 2439 |
| 0.93333E-01 | | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2440 |
| 0.00000E 00 | | 0.30000E 06 | | 0 | 0 | 0 | 0 | 2 | 0 | | | 28 | 4 | 2 | 2441 |
| 0.76667E-01 | | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2442 |
| 0.00000E 00 | | 0.31500E 06 | | 0 | 0 | 0 | 0 | 4 | 0 | | | 28 | 4 | 2 | 2443 |
| 0.58133E-01 | | 0.21240E-01 | -1.1471E-02 | -1.1244E-03 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2444 |
| 0.00000E 00 | | 0.37200E 00 | | 0 | 0 | 0 | 0 | 4 | 0 | | | 28 | 4 | 2 | 2445 |
| 0.18097E 00 | | 0.61700E-01 | 0.71300E-02 | 0.47056E-02 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2446 |
| 0.00000E 00 | | 0.43300E 00 | | 0 | 0 | 0 | 0 | 4 | 0 | | | 28 | 4 | 2 | 2447 |
| 0.14637E 00 | | 0.67620E-01 | 0.16057E-01 | 0.21270E-02 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2448 |
| 0.00000E 00 | | 0.40300E 06 | | 0 | 0 | 0 | 0 | 4 | 0 | | | 28 | 4 | 2 | 2449 |
| 0.16870E 00 | | 0.67000E-01 | 0.59471E-02 | 0.17155E-02 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2450 |
| 0.00000E 00 | | 0.53000E 06 | | 0 | 0 | 0 | 0 | 4 | 0 | | | 28 | 4 | 2 | 2451 |
| 0.21547E 00 | | 0.89300E-01 | 0.13041E-01 | 0.59411E-02 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2452 |
| 0.00000E 00 | | 0.57700E 06 | | 0 | 0 | 0 | 0 | 4 | 0 | | | 28 | 4 | 2 | 2453 |
| 0.21157E 00 | | 0.10524E 00 | 0.11109E-01 | 0.39678E-02 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2454 |
| 0.00000E 00 | | 0.62900E 06 | | 0 | 0 | 0 | 0 | 4 | 0 | | | 28 | 4 | 2 | 2455 |
| 0.16307E 00 | | 0.11494E 00 | 0.11659E-01 | 0.12007E-01 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2456 |
| 0.00000E 00 | | 0.66600E 06 | | 0 | 0 | 0 | 0 | 4 | 0 | | | 28 | 4 | 2 | 2457 |
| 0.22257E 00 | | 0.12542E 00 | 0.25329E-01 | 0.96622E-02 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 0.00000E 00 | 28 | 4 | 2 | 2458 |
| 0.00000E 00 | | 0.72900E 06 | | 0 | 0 | 0 | 0 | 4 | 0 | | | 28 | 4 | 2 | 2459 |

| | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|----|---|---|------|
| .57033E 00 | .44500E 00 | .30400E 00 | .15478E 00 | .41436E-01 | .12108E-01 | 28 | 4 | 2 | 2520 |
| .00000E 00 | .38000E 07 | 0 | 0 | 6 | 0 | 28 | 4 | 2 | 2521 |
| .55533E 00 | .46440E 00 | .31271E 00 | .15456E 00 | .41873E-01 | .19377E-01 | 28 | 4 | 2 | 2522 |
| .00000E 00 | .40000E 07 | 0 | 0 | 6 | 0 | 28 | 4 | 2 | 2523 |
| .61267E 00 | .46900E 00 | .33214E 00 | .16500E 00 | .34236E-01 | .12662E-01 | 28 | 4 | 2 | 2524 |
| .00000E 00 | .50000E 07 | 0 | 0 | 8 | 0 | 28 | 4 | 2 | 2525 |
| .74367E 00 | .55000E 00 | .40329E 00 | .24489E 00 | .99000E-01 | .36508E-01 | 28 | 4 | 2 | 2526 |
| .11520E-01 | .26553E-02 | .00000E 00 | .00000E 00 | .90000E 00 | .00000E 00 | 28 | 4 | 2 | 2527 |
| .00000E 00 | .60000E 07 | 0 | 0 | 10 | 0 | 28 | 4 | 2 | 2528 |
| .60533E 00 | .64140E 00 | .47600E 00 | .32133E 00 | .16955E 00 | .78077E-01 | 28 | 4 | 2 | 2529 |
| .26473E-01 | .62842E-02 | .20558E-02 | .30766E-03 | .00000E 00 | .00000E 00 | 26 | 4 | 2 | 2530 |
| .00000E 00 | .80000E 07 | 0 | 0 | 10 | 0 | 28 | 4 | 2 | 2531 |
| .54100E 00 | .69200E 00 | .52000E 00 | .36633E 00 | .21136E 00 | .10669E 00 | 28 | 4 | 2 | 2532 |
| .46127E-01 | .16271E-01 | .64421E-02 | .22729E-02 | .00000E 00 | .00000E 00 | 28 | 4 | 2 | 2533 |
| .00000E 00 | .10000E 00 | 0 | 0 | 10 | 0 | 28 | 4 | 2 | 2534 |
| .60900E 00 | .73760E 00 | .58629E 00 | .44011E 00 | .28664E 00 | .16654E 00 | 28 | 4 | 2 | 2535 |
| .50933E-01 | .39071E-01 | .14621E-01 | .35710E-02 | .00000E 00 | .00000E 00 | 28 | 4 | 2 | 2536 |
| .00000E 00 | .12000E 00 | 0 | 0 | 12 | 0 | 28 | 4 | 2 | 2537 |
| .57700E 00 | .75760E 00 | .62571E 00 | .48789E 00 | .34427E 00 | .22062E 00 | 28 | 4 | 2 | 2538 |
| .13573E 00 | .74882E-01 | .33905E-01 | .10580E-01 | .30700E-02 | .74560E-03 | 28 | 4 | 2 | 2539 |
| .00000E 00 | .14000E 00 | 0 | 0 | 12 | 0 | 28 | 4 | 2 | 2540 |
| .56200E 00 | .74200E 00 | .62514E 00 | .50689E 00 | .38127E 00 | .26565E 00 | 28 | 4 | 2 | 2541 |
| .18100E 00 | .12065E 00 | .68108E-01 | .26866E-01 | .90870E-02 | .24004E-02 | 28 | 4 | 2 | 2542 |
| .00000E 00 | .16000E 00 | 0 | 0 | 14 | 0 | 28 | 4 | 2 | 2543 |
| .50133E 00 | .76720E 00 | .60700E 00 | .55144E 00 | .43573E 00 | .32562E 00 | 28 | 4 | 2 | 2544 |
| .23587E 00 | .16754E 00 | .10558E 00 | .51333E-01 | .20391E-01 | .66000E-02 | 28 | 4 | 2 | 2545 |
| .17033E-02 | .48103E-03 | .00000E 00 | .00000E 00 | .00000E 00 | .00000E 00 | 28 | 4 | 2 | 2546 |
| .00000E 00 | .20000E 00 | 0 | 0 | 14 | 0 | 28 | 4 | 2 | 2547 |
| .40957E 00 | .77160E 00 | .66924E 00 | .57733E 00 | .48773E 00 | .39992E 00 | 28 | 4 | 2 | 2548 |
| .32047E 00 | .25270E 00 | .18939E 00 | .12210E 00 | .63565E-01 | .26792E-01 | 28 | 4 | 2 | 2549 |
| .99704E-02 | .30717E-02 | .00600E 00 | .00000E 00 | .00000E 00 | .00000E 00 | 28 | 4 | 2 | 2550 |

| | | | | | | | | | | | | | | | | | | | | | |
|------------|------------|----------|----------|---|---|-----|----|----|-----|------|------|------|---|---|-----|---|---|----|---|----|------|
| 2.00000+ | 4 | 5.81826+ | 1 | 0 | 2 | 0 | 28 | 4 | 0 | 2551 | | | | | | | | | | | |
| 0.0 | + | 0 | 5.81826+ | 1 | 0 | 1 | 0 | 28 | 4 | 16 | 2552 | | | | | | | | | | |
| 0.0 | + | 0 | 0.0 | + | 0 | 0 | 1 | 28 | 4 | 16 | 2553 | | | | | | | | | | |
| | 2 | | | 2 | 0 | 0 | 0 | 28 | 4 | 16 | 2554 | | | | | | | | | | |
| 0.0 | + | 0 | 7.95400+ | 6 | 0 | 0 | 1 | 28 | 4 | 16 | 2555 | | | | | | | | | | |
| | 2 | | | 2 | 0 | 0 | 0 | 28 | 4 | 16 | 2556 | | | | | | | | | | |
| | 2 | | | 2 | 0 | 0 | 0 | 28 | 4 | 16 | 2557 | | | | | | | | | | |
| -1.0 | + | 0 | 5.0 | - | 1 | 1.0 | + | 0 | 5.0 | - | 1 | 0.0 | + | 0 | 0.0 | + | 0 | 28 | 4 | 16 | 2558 |
| 0.0 | + | 0 | 2.0 | + | 7 | 0 | 0 | 1 | 28 | 4 | 16 | 2559 | | | | | | | | | |
| | 2 | | | 2 | 0 | 0 | 0 | 28 | 4 | 16 | 2560 | | | | | | | | | | |
| -1.0 | + | 0 | 5.0 | - | 1 | 1.0 | + | 0 | 5.0 | - | 1 | 0.0 | + | 0 | 0.0 | + | 0 | 28 | 4 | 16 | 2561 |
| 0.0 | + | 0 | 0.0 | + | 0 | 0 | 0 | 0 | 28 | 4 | 0 | 2562 | | | | | | | | | |
| 2.0 | + | 4 | 5.81826+ | 1 | 0 | 2 | 0 | 28 | 4 | 22 | 2563 | | | | | | | | | | |
| 0.0 | + | 0 | 5.81826+ | 1 | 0 | 1 | 0 | 28 | 4 | 22 | 2564 | | | | | | | | | | |
| 0.0 | + | 0 | 0.0 | + | 0 | 0 | 1 | 28 | 4 | 22 | 2565 | | | | | | | | | | |
| | 2 | | | 2 | 0 | 0 | 0 | 28 | 4 | 22 | 2566 | | | | | | | | | | |
| 0.0 | + | 7 | 6.401 | + | 0 | 0 | 1 | 28 | 4 | 22 | 2567 | | | | | | | | | | |
| | 2 | | | 2 | 0 | 0 | 0 | 28 | 4 | 22 | 2568 | | | | | | | | | | |
| -1.0 | + | 0 | 5.0 | - | 1 | 1.0 | + | 0 | 5.0 | - | 1 | 0.0 | + | 0 | 0.0 | + | 0 | 28 | 4 | 22 | 2569 |
| 0.0 | + | 0 | 2.0 | + | 7 | 0 | 0 | 1 | 28 | 4 | 22 | 2570 | | | | | | | | | |
| | 2 | | | 2 | 0 | 0 | 0 | 28 | 4 | 22 | 2571 | | | | | | | | | | |
| -1.0 | + | 0 | 5.0 | - | 1 | 1.0 | + | 0 | 5.0 | - | 1 | 0.0 | + | 0 | 0.0 | + | 0 | 28 | 4 | 22 | 2572 |
| .00000E 00 | .00000E 00 | | | | | | | | 28 | 4 | 0 | 2573 | | | | | | | | | |
| 2.0 | + | 4 | 5.81826+ | 1 | 0 | 2 | 0 | 28 | 4 | 28 | 2574 | | | | | | | | | | |
| 0.0 | + | 0 | 5.81826+ | 1 | 0 | 1 | 0 | 28 | 4 | 28 | 2575 | | | | | | | | | | |
| 0.0 | + | 0 | 0.0 | + | 0 | 0 | 1 | 28 | 4 | 28 | 2576 | | | | | | | | | | |
| | 2 | | | 2 | 0 | 0 | 0 | 28 | 4 | 28 | 2577 | | | | | | | | | | |
| 0.0 | + | 0 | 3.319 | + | 6 | 0 | 1 | 28 | 4 | 28 | 2578 | | | | | | | | | | |
| | 2 | | | 2 | 0 | 0 | 0 | 28 | 4 | 28 | 2579 | | | | | | | | | | |

| | | | | | | | | | | |
|------------|-------------|------------|-------------|---------|-------------|-----|----|---|----|------|
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 | 4 | 2A | 2580 |
| 0.0 | + 0 2.0 | + 7 | 0 | 0 | 1 | 2 | 28 | 4 | 2B | 2581 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 | 4 | 2B | 2582 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 | 4 | 2B | 2583 |
| 0.0000E 00 | 0.0000E 00 | 0.0000E 00 | 0 | 2 | 0 | 0 | 28 | 4 | C | 2584 |
| 2.6 | + 4 5.81826 | + 1 | 0 | 2 | 0 | 0 | 28 | 4 | 51 | 2585 |
| 0.0 | + 0 5.81826 | + 1 | 0 | 2 | 0 | 0 | 28 | 4 | 51 | 2586 |
| 0.0 | + 0 0.0 | + 2 | 0 | 0 | 1 | 5 | 28 | 4 | 51 | 2587 |
| | 5 | 2 | 0 | 0 | 0 | 0 | 28 | 4 | 51 | 2588 |
| 0.0 | + 0 1.19200 | + 6 | 0 | 0 | 1 | 2 | 28 | 4 | 51 | 2589 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 | 4 | 51 | 2590 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 | 4 | 51 | 2591 |
| 0.0 | + 0 4.0 | + 6 | 0 | 0 | 1 | 2 | 28 | 4 | 51 | 2592 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 | 4 | 51 | 2593 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 | 4 | 51 | 2594 |
| 0.0 | + 0 8.0 | + 6 | 0 | 0 | 1 | 21 | 28 | 4 | 51 | 2595 |
| | 21 | 2 | 0 | 0 | 0 | 0 | 28 | 4 | 51 | 2596 |
| -1.0 | + 0 .425 | + 0-0.9 | + 0 0.3955 | + 0-0.8 | + 0 0.372 | + 0 | 28 | 4 | 51 | 2597 |
| -0.7 | + 0 .3545 | + 0-0.6 | + 0 0.3430 | + 0-0.5 | + 0 0.3375 | + 0 | 28 | 4 | 51 | 2598 |
| -0.4 | + 0 .338 | + 0-0.3 | + 0 0.3445 | + 0-0.2 | + 0 0.357 | + 0 | 28 | 4 | 51 | 2599 |
| -0.1 | + 0 .3755 | + 0 0.0 | + 0 0.4000 | + 0 0.1 | + 0 0.4305 | + 0 | 28 | 4 | 51 | 2600 |
| .2 | + 0 .467 | + 0 0.3 | + 0 0.5095 | + 0 0.4 | + 0 0.558 | + 0 | 28 | 4 | 51 | 2601 |
| .5 | + 0 .6125 | + 0 0.6 | + 0 0.6730 | + 0 0.7 | + 0 0.7395 | + 0 | 28 | 4 | 51 | 2602 |
| .8 | + 0 .8120 | + 0 0.9 | + 0 0.8945 | + 0 1.0 | + 0 0.9750 | + 0 | 28 | 4 | 51 | 2603 |
| 0.0 | + 0 1.4 | + 7 | 0 | 0 | 1 | 21 | 28 | 4 | 51 | 2604 |
| | 21 | 2 | 0 | 0 | 0 | 0 | 28 | 4 | 51 | 2605 |
| -1.0 | + 0 0.25 | + 0-0.9 | + 0 0.24650 | + 0-0.8 | + 0 0.22200 | + 0 | 28 | 4 | 51 | 2606 |
| -0.7 | + 0 0.2065 | + 0-0.6 | + 0 0.2 | + 0-0.5 | + 0 0.2025 | + 0 | 28 | 4 | 51 | 2607 |
| -0.4 | + 0 0.214 | + 0-0.3 | + 0 0.2345 | + 0-0.2 | + 0 0.264 | + 0 | 28 | 4 | 51 | 2608 |
| -0.1 | + 0 0.3025 | + 0 0.0 | + 0 0.35 | + 0 0.1 | + 0 0.4865 | + 0 | 28 | 4 | 51 | 2609 |
| 0.2 | + 0 0.472 | + 0 0.3 | + 0 0.5465 | + 0 0.4 | + 0 0.63 | + 0 | 28 | 4 | 51 | 2610 |
| 0.5 | + 0 0.7225 | + 0 0.6 | + 0 0.824 | + 0 0.7 | + 0 0.9345 | + 0 | 28 | 4 | 51 | 2611 |
| 0.8 | + 0 1.054 | + 0 0.9 | + 0 1.1825 | + 0 1.0 | + 0 1.320 | + 0 | 28 | 4 | 51 | 2612 |
| 0.0 | + 0 2.0 | + 7 | 0 | 0 | 1 | 21 | 28 | 4 | 51 | 2613 |
| | 21 | 2 | 0 | 0 | 0 | 0 | 28 | 4 | 51 | 2614 |
| -1.0 | + 0 0.25 | + 0-0.9 | + 0 0.19225 | + 0-0.8 | + 0 0.165 | + 0 | 28 | 4 | 51 | 2615 |
| -0.7 | + 0 0.14825 | + 0-0.6 | + 0 0.142 | + 0-0.5 | + 0 0.14625 | + 0 | 28 | 4 | 51 | 2616 |
| -0.4 | + 0 0.161 | + 0-0.3 | + 0 0.16625 | + 0-0.2 | + 0 0.222 | + 0 | 28 | 4 | 51 | 2617 |
| -0.1 | + 0 0.26825 | + 0 0.0 | + 0 0.325 | + 0 0.1 | + 0 0.37225 | + 0 | 28 | 4 | 51 | 2618 |
| 0.2 | + 0 0.47 | + 0 0.3 | + 0 0.55825 | + 0 0.4 | + 0 0.657 | + 0 | 28 | 4 | 51 | 2619 |
| 0.5 | + 0 0.76625 | + 0 0.6 | + 0 0.886 | + 0 0.7 | + 0 1.01625 | + 0 | 28 | 4 | 51 | 2620 |
| 0.8 | + 0 1.157 | + 0 0.9 | + 0 1.3825 | + 0 1.0 | + 0 1.47 | + 0 | 28 | 4 | 51 | 2621 |
| 0.0 | + 0 0.0 | + 0 | 0 | 2 | 0 | 0 | 28 | 4 | 52 | 2622 |
| 2.0 | + 4 5.81826 | + 1 | 0 | 2 | 0 | 0 | 28 | 4 | 52 | 2623 |
| 0.0 | + 0 5.81826 | + 1 | 0 | 2 | 0 | 0 | 28 | 4 | 52 | 2624 |
| 0.0 | + 0 0.0 | + 0 | 0 | 0 | 1 | 5 | 28 | 4 | 52 | 2625 |
| | 5 | 2 | 0 | 0 | 0 | 0 | 28 | 4 | 52 | 2626 |
| 0.0 | + 0 1.355 | + 6 | 0 | 0 | 1 | 2 | 28 | 4 | 52 | 2627 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 | 4 | 52 | 2628 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 | 4 | 52 | 2629 |
| 0.0 | + 0 4.0 | + 6 | 0 | 0 | 1 | 2 | 28 | 4 | 52 | 2630 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 | 4 | 52 | 2631 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 | 4 | 52 | 2632 |
| 0.0 | + 0 8.0 | + 6 | 0 | 0 | 1 | 21 | 28 | 4 | 52 | 2633 |
| | 21 | 2 | 0 | 0 | 0 | 0 | 28 | 4 | 52 | 2634 |
| -1.0 | + 0 .425 | + 0-0.9 | + 0 0.3955 | + 0-0.8 | + 0 0.372 | + 0 | 28 | 4 | 52 | 2635 |
| -0.7 | + 0 .3545 | + 0-0.6 | + 0 0.3430 | + 0-0.5 | + 0 0.3375 | + 0 | 28 | 4 | 52 | 2636 |
| -0.4 | + 0 .338 | + 0-0.3 | + 0 0.3445 | + 0-0.2 | + 0 0.357 | + 0 | 28 | 4 | 52 | 2637 |
| -0.1 | + 0 .3755 | + 0 0.0 | + 0 0.4000 | + 0 0.1 | + 0 0.4305 | + 0 | 28 | 4 | 52 | 2638 |
| .2 | + 0 .467 | + 0 0.3 | + 0 0.5095 | + 0 0.4 | + 0 0.558 | + 0 | 28 | 4 | 52 | 2639 |

| | | | | | | | | | | | | | | | |
|------|-----|---------|-----|-----|-----|---------|-----|-----|-----|---------|-----|----|---|----|------|
| .5 | + 0 | .6125 | + 0 | 0.6 | + 0 | 0.6730 | + 0 | 0.7 | + 0 | 0.7395 | + 0 | 28 | 4 | 52 | 2640 |
| .6 | + 0 | .8120 | + 0 | 0.9 | + 0 | 0.8905 | + 0 | 1.0 | + 0 | 0.9750 | + 0 | 28 | 4 | 52 | 2641 |
| 0.0 | + 0 | 1.4 | + 7 | | 0 | | 0 | | 1 | | 21 | 28 | 4 | 52 | 2642 |
| | 21 | | 2 | | 0 | | 0 | | 0 | | 0 | 28 | 4 | 52 | 2643 |
| -1.0 | + 0 | 0.28 | + 0 | 0.9 | + 0 | 0.24650 | + 0 | 0.8 | + 0 | 0.22200 | + 0 | 28 | 4 | 52 | 2644 |
| -0.7 | + 0 | 0.2065 | + 0 | 0.6 | + 0 | 0.2 | + 0 | 0.5 | + 0 | 0.2025 | + 0 | 28 | 4 | 52 | 2645 |
| -0.4 | + 0 | 0.214 | + 0 | 0.3 | + 0 | 0.2345 | + 0 | 0.2 | + 0 | 0.264 | + 0 | 28 | 4 | 52 | 2646 |
| -0.1 | + 0 | 0.3625 | + 0 | 0.0 | + 0 | 0.35 | + 0 | 0.1 | + 0 | 0.4065 | + 0 | 28 | 4 | 52 | 2647 |
| 0.2 | + 0 | 0.472 | + 0 | 0.3 | + 0 | 0.5465 | + 0 | 0.4 | + 0 | 0.63 | + 0 | 28 | 4 | 52 | 2648 |
| 0.5 | + 0 | 0.7225 | + 0 | 0.6 | + 0 | 0.824 | + 0 | 0.7 | + 0 | 0.9345 | + 0 | 28 | 4 | 52 | 2649 |
| 0.8 | + 0 | 1.054 | + 0 | 0.9 | + 0 | 1.1825 | + 0 | 1.0 | + 0 | 1.320 | + 0 | 28 | 4 | 52 | 2650 |
| 0.0 | + 0 | 2.0 | + 7 | | 0 | | 0 | | 1 | | 21 | 28 | 4 | 52 | 2651 |
| | 21 | | 2 | | 0 | | 0 | | 0 | | 0 | 28 | 4 | 52 | 2652 |
| -1.0 | + 0 | 0.23 | + 0 | 0.9 | + 0 | 0.19225 | + 0 | 0.8 | + 0 | 0.165 | + 0 | 28 | 4 | 52 | 2653 |
| -0.7 | + 0 | 0.14825 | + 0 | 0.6 | + 0 | 0.142 | + 0 | 0.5 | + 0 | 0.14625 | + 0 | 28 | 4 | 52 | 2654 |
| -0.4 | + 0 | 0.161 | + 0 | 0.3 | + 0 | 0.18625 | + 0 | 0.2 | + 0 | 0.222 | + 0 | 28 | 4 | 52 | 2655 |
| -0.1 | + 0 | 0.26825 | + 0 | 0.0 | + 0 | 0.325 | + 0 | 0.1 | + 0 | 0.39225 | + 0 | 28 | 4 | 52 | 2656 |
| 0.2 | + 0 | 0.47 | + 0 | 0.3 | + 0 | 0.55825 | + 0 | 0.4 | + 0 | 0.657 | + 0 | 28 | 4 | 52 | 2657 |
| 0.5 | + 0 | 0.76625 | + 0 | 0.6 | + 0 | 0.866 | + 0 | 0.7 | + 0 | 1.01625 | + 0 | 28 | 4 | 52 | 2658 |
| 0.8 | + 0 | 1.157 | + 0 | 0.9 | + 0 | 1.3825 | + 0 | 1.0 | + 0 | 1.47 | + 0 | 28 | 4 | 52 | 2659 |
| 0.0 | + 0 | 0.0 | + 0 | | 0 | | 0 | | 0 | | 0 | 28 | 4 | 52 | 2660 |
| 2.8 | + 4 | 5.81826 | + 1 | | 0 | | 2 | | 0 | | 0 | 28 | 4 | 53 | 2661 |
| 0.0 | + 0 | 5.81826 | + 1 | | 0 | | 2 | | 0 | | 0 | 28 | 4 | 53 | 2662 |
| 0.0 | + 0 | 0.0 | + 0 | | 0 | | 0 | | 1 | | 5 | 28 | 4 | 53 | 2663 |
| | 5 | | 2 | | 0 | | 0 | | 0 | | 0 | 28 | 4 | 53 | 2664 |
| 0.0 | + 0 | 1.479 | + 6 | | 0 | | 0 | | 1 | | 2 | 28 | 4 | 53 | 2665 |
| | 2 | | 2 | | 0 | | 0 | | 0 | | 0 | 28 | 4 | 53 | 2666 |
| -1.0 | + 0 | 5.0 | + 1 | 1.0 | + 0 | 5.0 | + 1 | 0.0 | + 0 | 0.0 | + 0 | 28 | 4 | 53 | 2667 |
| 0.0 | + 0 | 4.0 | + 6 | | 0 | | 0 | | 1 | | 2 | 28 | 4 | 53 | 2668 |
| | 2 | | 2 | | 0 | | 0 | | 0 | | 0 | 28 | 4 | 53 | 2669 |
| -1.0 | + 0 | 5.0 | + 1 | 1.0 | + 0 | 5.0 | + 1 | 0.0 | + 0 | 0.0 | + 0 | 28 | 4 | 53 | 2670 |
| 0.0 | + 0 | 6.0 | + 6 | | 0 | | 0 | | 1 | | 21 | 28 | 4 | 53 | 2671 |
| | 21 | | 2 | | 0 | | 0 | | 0 | | 0 | 28 | 4 | 53 | 2672 |
| -1.0 | + 0 | .425 | + 0 | 0.9 | + 0 | 0.3955 | + 0 | 0.8 | + 0 | 0.372 | + 0 | 28 | 4 | 53 | 2673 |
| -0.7 | + 0 | .3545 | + 0 | 0.6 | + 0 | 0.3430 | + 0 | 0.5 | + 0 | 0.3375 | + 0 | 28 | 4 | 53 | 2674 |
| -0.4 | + 0 | .338 | + 0 | 0.3 | + 0 | 0.3445 | + 0 | 0.2 | + 0 | 0.357 | + 0 | 28 | 4 | 53 | 2675 |
| -0.1 | + 0 | .3755 | + 0 | 0.0 | + 0 | 0.4000 | + 0 | 0.1 | + 0 | 0.4305 | + 0 | 28 | 4 | 53 | 2676 |
| .2 | + 0 | .467 | + 0 | 0.3 | + 0 | 0.5095 | + 0 | 0.4 | + 0 | 0.558 | + 0 | 28 | 4 | 53 | 2677 |
| .5 | + 0 | .6125 | + 0 | 0.6 | + 0 | 0.6730 | + 0 | 0.7 | + 0 | 0.7395 | + 0 | 28 | 4 | 53 | 2678 |
| .8 | + 0 | .8120 | + 0 | 0.9 | + 0 | 0.8905 | + 0 | 1.0 | + 0 | 0.9750 | + 0 | 28 | 4 | 53 | 2679 |
| 0.0 | + 0 | 1.4 | + 7 | | 0 | | 0 | | 1 | | 21 | 28 | 4 | 53 | 2680 |
| | 21 | | 2 | | 0 | | 0 | | 0 | | 0 | 28 | 4 | 53 | 2681 |
| -1.0 | + 0 | 0.28 | + 0 | 0.9 | + 0 | 0.24650 | + 0 | 0.8 | + 0 | 0.22200 | + 0 | 28 | 4 | 53 | 2682 |
| -0.7 | + 0 | 0.2065 | + 0 | 0.6 | + 0 | 0.2 | + 0 | 0.5 | + 0 | 0.2025 | + 0 | 28 | 4 | 53 | 2683 |
| -0.4 | + 0 | 0.214 | + 0 | 0.3 | + 0 | 0.2345 | + 0 | 0.2 | + 0 | 0.264 | + 0 | 28 | 4 | 53 | 2684 |
| -0.1 | + 0 | 0.3625 | + 0 | 0.0 | + 0 | 0.35 | + 0 | 0.1 | + 0 | 0.4065 | + 0 | 28 | 4 | 53 | 2685 |
| 0.2 | + 0 | 0.472 | + 0 | 0.3 | + 0 | 0.5465 | + 0 | 0.4 | + 0 | 0.63 | + 0 | 28 | 4 | 53 | 2686 |
| 0.5 | + 0 | 0.7225 | + 0 | 0.6 | + 0 | 0.824 | + 0 | 0.7 | + 0 | 0.9345 | + 0 | 28 | 4 | 53 | 2687 |
| 0.8 | + 0 | 1.054 | + 0 | 0.9 | + 0 | 1.1825 | + 0 | 1.0 | + 0 | 1.320 | + 0 | 28 | 4 | 53 | 2688 |
| 0.0 | + 0 | 2.0 | + 7 | | 0 | | 0 | | 1 | | 21 | 28 | 4 | 53 | 2689 |
| | 21 | | 2 | | 0 | | 0 | | 0 | | 0 | 28 | 4 | 53 | 2690 |
| -1.0 | + 0 | 0.23 | + 0 | 0.9 | + 0 | 0.19225 | + 0 | 0.8 | + 0 | 0.165 | + 0 | 28 | 4 | 53 | 2691 |
| -0.7 | + 0 | 0.14825 | + 0 | 0.6 | + 0 | 0.142 | + 0 | 0.5 | + 0 | 0.14625 | + 0 | 28 | 4 | 53 | 2692 |
| -0.4 | + 0 | 0.161 | + 0 | 0.3 | + 0 | 0.18625 | + 0 | 0.2 | + 0 | 0.222 | + 0 | 28 | 4 | 53 | 2693 |
| -0.1 | + 0 | 0.26825 | + 0 | 0.0 | + 0 | 0.325 | + 0 | 0.1 | + 0 | 0.39225 | + 0 | 28 | 4 | 53 | 2694 |
| 0.2 | + 0 | 0.47 | + 0 | 0.3 | + 0 | 0.55825 | + 0 | 0.4 | + 0 | 0.657 | + 0 | 28 | 4 | 53 | 2695 |
| 0.5 | + 0 | 0.76625 | + 0 | 0.6 | + 0 | 0.866 | + 0 | 0.7 | + 0 | 1.01625 | + 0 | 28 | 4 | 53 | 2696 |
| 0.8 | + 0 | 1.157 | + 0 | 0.9 | + 0 | 1.3825 | + 0 | 1.0 | + 0 | 1.47 | + 0 | 28 | 4 | 53 | 2697 |
| 0.0 | + 0 | 0.0 | + 0 | | 0 | | 0 | | 0 | | 0 | 28 | 4 | 53 | 2698 |
| 2.8 | + 4 | 5.81826 | + 1 | | 0 | | 2 | | 0 | | 0 | 28 | 4 | 54 | 2699 |

| | | | | | | | | |
|-------|--------------|---------|---------|---------|----------|-----|---------|------|
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 25 4 59 | 2760 |
| 0.0 | + 0 2.0 | + 7 | 0 | 0 | 1 | 2 | 28 4 59 | 2761 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 59 | 2762 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 4 59 | 2763 |
| 0.0 | + 0 0.0 | + 0 | 0 | 0 | 0 | 0 | 28 4 0 | 2764 |
| 2.0 | + 4 5.81826+ | 1 | 0 | 2 | 0 | 0 | 28 4 60 | 2765 |
| 0.0 | + 0 5.81826+ | 1 | 0 | 0 | 0 | 0 | 28 4 60 | 2766 |
| 0.0 | + 0 0.0 | + 0 | 0 | 0 | 1 | 2 | 28 4 60 | 2767 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 60 | 2768 |
| 0.0 | + 0 3.001 | + 6 | 0 | 0 | 1 | 2 | 28 4 60 | 2769 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 60 | 2770 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 4 60 | 2771 |
| 0.0 | + 0 2.0 | + 7 | 0 | 0 | 1 | 2 | 28 4 60 | 2772 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 60 | 2773 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 4 60 | 2774 |
| 0.0 | + 0 0.0 | + 0 | 0 | 0 | 0 | 0 | 28 4 0 | 2775 |
| 2.0 | + 4 5.81826+ | 1 | 0 | 2 | 0 | 0 | 28 4 61 | 2776 |
| 0.0 | + 0 5.81826+ | 1 | 0 | 0 | 0 | 0 | 28 4 61 | 2777 |
| 0.0 | + 0 0.0 | + 0 | 0 | 0 | 1 | 2 | 28 4 61 | 2778 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 61 | 2779 |
| 0.0 | + 0 3.325 | + 6 | 0 | 0 | 1 | 2 | 28 4 61 | 2780 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 61 | 2781 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 4 61 | 2782 |
| 0.0 | + 0 2.0 | + 7 | 0 | 0 | 1 | 2 | 28 4 61 | 2783 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 61 | 2784 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 4 61 | 2785 |
| 0.0 | + 0 0.0 | + 0 | 0 | 0 | 0 | 0 | 28 4 0 | 2786 |
| 2.0 | + 4 5.81826+ | 1 | 0 | 2 | 0 | 0 | 28 4 62 | 2787 |
| 0.0 | + 0 5.81826+ | 1 | 0 | 0 | 0 | 0 | 28 4 62 | 2788 |
| 0.0 | + 0 0.0 | + 0 | 0 | 0 | 1 | 2 | 28 4 62 | 2789 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 62 | 2790 |
| 0.0 | + 0 3.689 | + 6 | 0 | 0 | 1 | 2 | 28 4 62 | 2791 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 62 | 2792 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 4 62 | 2793 |
| 0.0 | + 0 2.0 | + 7 | 0 | 0 | 1 | 2 | 28 4 62 | 2794 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 62 | 2795 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 4 62 | 2796 |
| 0.0 | + 0 0.0 | + 0 | 0 | 0 | 0 | 0 | 28 4 0 | 2797 |
| 2.0 | + 4 5.81826+ | 1 | 0 | 2 | 0 | 0 | 28 4 91 | 2798 |
| 0.0 | + 0 5.81826+ | 1 | 0 | 0 | 0 | 0 | 28 4 91 | 2799 |
| 0.0 | + 0 0.0 | + 0 | 0 | 0 | 1 | 2 | 28 4 91 | 2800 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 91 | 2801 |
| 0.0 | + 0 3.763 | + 6 | 0 | 0 | 1 | 2 | 28 4 91 | 2802 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 91 | 2803 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 4 91 | 2804 |
| 0.0 | + 0 2.0 | + 7 | 0 | 0 | 1 | 2 | 28 4 91 | 2805 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 4 91 | 2806 |
| -1.0 | + 0 5.0 | - 1 1.0 | + 0 5.0 | - 1 0.0 | + 0 0.0 | + 0 | 28 4 91 | 2807 |
| 0.0 | + 0 0.0 | + 0 | 0 | 0 | 0 | 0 | 28 4 0 | 2808 |
| 0.0 | + 0 0.0 | + 0 | 0 | 0 | 1 | 0 | 28 0 0 | 2809 |
| 2.0 | + 4 5.81826+ | 1 | 0 | 0 | 1 | 0 | 28 5 16 | 2810 |
| 7.954 | + 6 0.0 | + 0 | 0 | 9 | 1 | 2 | 28 5 16 | 2811 |
| | 2 | 2 | 0 | 0 | 0 | 0 | 28 5 16 | 2812 |
| 7.954 | + 6 1.0 | + 0 2.0 | + 7 1.0 | + 0 | 0 | 0 | 28 5 16 | 2813 |
| 0.0 | + 0 0.0 | + 0 | 0 | 0 | 1 | 7 | 28 5 16 | 2814 |
| | 7 | 2 | 0 | 0 | 0 | 0 | 28 5 16 | 2815 |
| 7.954 | + 6 1.0 | + 4 1.0 | + 7 3.6 | + 5 1.2 | + 7 5.00 | + 5 | 28 5 16 | 2816 |
| 1.4 | + 7 6.10 | + 5 1.6 | + 7 7.1 | + 5 1.8 | + 7 7.9 | + 5 | 28 5 16 | 2817 |
| 2.0 | + 7 8.7 | + 5 | | | | | 26 5 16 | 2818 |
| 0.0 | + 0 0.0 | + 0 | | | | | 28 5 0 | 2819 |

| | | | | | | | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|--|-----|-----|-----|-----|-----|----|------|------|------|
| 2.8 | + 4 | 5,81826 | + 1 | | | | | 1 | | 0 | 28 | 5 | 22 | 2820 | | |
| 0.491 | + 6 | 0.0 | + 0 | | 0 | | | 9 | | 1 | 2 | 28 | 5 | 22 | 2821 | |
| | | 2 | | | 2 | | | | | | | 28 | 5 | 22 | 2822 | |
| 0.491 | + 6 | 1.0 | + 0 | 2.0 | + 7 | 1. | | + 0 | | | | 28 | 5 | 22 | 2823 | |
| 0.0 | + 0 | 0.0 | + 0 | | 0 | | | 0 | | - 1 | 4 | 28 | 5 | 22 | 2824 | |
| | | 4 | | | 2 | | | | | | | 28 | 5 | 22 | 2825 | |
| 0.491 | + 6 | 1.0 | + 4 | 1.0 | + 7 | 4.7 | | + 5 | 1.5 | + 7 | 7.3 | + 5 | 28 | 5 | 22 | 2826 |
| 2.0 | + 7 | 9.2 | + 5 | | | | | | | | | | 28 | 5 | 22 | 2827 |
| | | | | | | | | | | | | | 28 | 5 | 0 | 2828 |
| 2.8 | + 4 | 5,81826 | + 1 | | 0 | | | 0 | | 1 | | 0 | 28 | 5 | 28 | 2829 |
| 0.317 | + 6 | 0.0 | + 0 | | 0 | | | 9 | | 1 | | 2 | 28 | 5 | 28 | 2830 |
| | | 2 | | | 2 | | | | | | | | 28 | 5 | 28 | 2831 |
| 0.317 | + 6 | 1.0 | + 0 | 2.0 | + 7 | 1.0 | | + 0 | | | | | 28 | 5 | 28 | 2832 |
| 0.0 | + 0 | 0.0 | + 0 | | 0 | | | 0 | | 1 | | 4 | 28 | 5 | 28 | 2833 |
| | | 4 | | | 2 | | | | | | | | 28 | 5 | 28 | 2834 |
| 0.317 | + 6 | 1.0 | + 4 | 1.0 | + 7 | 3.2 | | + 5 | 1.5 | + 7 | 6.5 | + 5 | 28 | 5 | 28 | 2835 |
| 2.0 | + 7 | 8.5 | + 5 | | | | | | | | | | 28 | 5 | 28 | 2836 |
| | | | | | | | | | | | | | 28 | 5 | 0 | 2837 |
| 2.8 | + 4 | 5,81826 | + 1 | | 0 | | | 0 | | 1 | | 0 | 28 | 5 | 91 | 2838 |
| 0.0 | + 0 | 0.0 | + 0 | | 0 | | | 1 | | 1 | | 2 | 28 | 5 | 91 | 2839 |
| | | 2 | | | 2 | | | | | | | | 28 | 5 | 91 | 2840 |
| 3,763 | + 6 | 1.0 | + 0 | 2.0 | + 7 | 1.0 | | + 0 | | | | | 28 | 5 | 91 | 2841 |
| 0.0 | + 0 | 0.0 | + 0 | | 0 | | | 0 | | 1 | | 11 | 28 | 5 | 91 | 2842 |
| | | 11 | | | 1 | | | | | | | | 28 | 5 | 91 | 2843 |
| .00000E 00 | .37630E 07 | | | 0 | | | | 1 | | 1 | | 22 | 28 | 5 | 91 | 2844 |
| | | 22 | | | 2 | | | | | | | | 28 | 5 | 91 | 2845 |
| .10000E-04 | .00000E 00 | .15000E 05 | .43540E-06 | .30000E 05 | .85170E-06 | | | | | | | | 28 | 5 | 91 | 2846 |
| .40000E 05 | .12500E-05 | .60000E 05 | .16300E-05 | .75000E 05 | .19920E-05 | | | | | | | | 28 | 5 | 91 | 2847 |
| .90000E 05 | .23390E-05 | .10500E 06 | .26690E-05 | .12000E 06 | .29630E-05 | | | | | | | | 28 | 5 | 91 | 2848 |
| .10000E 05 | .32830E-05 | .15000E 06 | .35680E-05 | .16500E 06 | .38390E-05 | | | | | | | | 28 | 5 | 91 | 2849 |
| .18000E 06 | .40960E-05 | .19500E 06 | .43410E-05 | .21000E 06 | .45730E-05 | | | | | | | | 28 | 5 | 91 | 2850 |
| .22500E 06 | .47930E-05 | .24000E 06 | .50010E-05 | .25500E 06 | .51970E-05 | | | | | | | | 28 | 5 | 91 | 2851 |
| .27000E 06 | .53830E-05 | .28500E 06 | .55590E-05 | .30000E 06 | .57240E-05 | | | | | | | | 28 | 5 | 91 | 2852 |
| .30000E 06 | .60000E 07 | .00000E 00 | .00000E 00 | .00000E 00 | .00000E 00 | | | | | | | | 28 | 5 | 91 | 2853 |
| .00000E 00 | .40000E 07 | | 0 | | 1 | | | 1 | | | | 22 | 28 | 5 | 91 | 2854 |
| | | 22 | | | 2 | | | | | | | | 28 | 5 | 91 | 2855 |
| .10000E-04 | .00000E 00 | .15000E 05 | .43540E-06 | .30000E 05 | .85170E-06 | | | | | | | | 28 | 5 | 91 | 2856 |
| .40000E 05 | .12500E-05 | .60000E 05 | .16300E-05 | .75000E 05 | .19920E-05 | | | | | | | | 28 | 5 | 91 | 2857 |
| .90000E 05 | .23390E-05 | .10500E 06 | .26690E-05 | .12000E 06 | .29630E-05 | | | | | | | | 28 | 5 | 91 | 2858 |
| .10000E 06 | .32830E-05 | .15000E 06 | .35680E-05 | .16500E 06 | .38390E-05 | | | | | | | | 28 | 5 | 91 | 2859 |
| .18000E 06 | .40960E-05 | .19500E 06 | .43410E-05 | .21000E 06 | .45730E-05 | | | | | | | | 28 | 5 | 91 | 2860 |
| .22500E 06 | .47930E-05 | .24000E 06 | .50010E-05 | .25500E 06 | .51970E-05 | | | | | | | | 28 | 5 | 91 | 2861 |
| .27000E 06 | .53830E-05 | .28500E 06 | .55590E-05 | .30000E 06 | .57240E-05 | | | | | | | | 28 | 5 | 91 | 2862 |
| .30000E 06 | .60000E 07 | .00000E 00 | .00000E 00 | .00000E 00 | .00000E 00 | | | | | | | | 28 | 5 | 91 | 2863 |
| .00000E 00 | .40000E 07 | | 0 | | 1 | | | 1 | | | | 27 | 28 | 5 | 91 | 2864 |
| | | 27 | | | 2 | | | | | | | | 28 | 5 | 91 | 2865 |
| .10000E-04 | .00000E 00 | .32000E 05 | .20040E-06 | .64000E 05 | .38230E-06 | | | | | | | | 28 | 5 | 91 | 2866 |
| .96000E 05 | .54700E-06 | .12800E 06 | .69570E-06 | .16000E 06 | .82960E-06 | | | | | | | | 28 | 5 | 91 | 2867 |
| .19200E 06 | .94980E-06 | .22400E 06 | .10570E-05 | .25600E 06 | .11530E-05 | | | | | | | | 28 | 5 | 91 | 2868 |
| .28000E 06 | .12370E-05 | .32000E 06 | .13120E-05 | .35200E 06 | .13770E-05 | | | | | | | | 28 | 5 | 91 | 2869 |
| .36400E 06 | .14330E-05 | .41600E 06 | .14810E-05 | .44800E 06 | .15230E-05 | | | | | | | | 28 | 5 | 91 | 2870 |
| .48000E 06 | .15570E-05 | .51200E 06 | .15850E-05 | .54400E 06 | .16970E-05 | | | | | | | | 28 | 5 | 91 | 2871 |
| .57600E 06 | .16240E-05 | .60800E 06 | .16370E-05 | .64000E 06 | .16450E-05 | | | | | | | | 28 | 5 | 91 | 2872 |
| .67200E 06 | .16490E-05 | .70400E 06 | .16490E-05 | .73600E 06 | .15460E-05 | | | | | | | | 28 | 5 | 91 | 2873 |
| .76800E 06 | .16400E-05 | .80000E 06 | .16310E-05 | .80000E 06 | .00000E 00 | | | | | | | | 28 | 5 | 91 | 2874 |
| .00000E 00 | .50000E 07 | | 0 | | 1 | | | 1 | | | | 32 | 28 | 5 | 91 | 2875 |
| | | 32 | | | 2 | | | | | | | | 28 | 5 | 91 | 2876 |
| .10000E-04 | .00000E 00 | .43330E 05 | .13800E-06 | .86670E 05 | .26070E-06 | | | | | | | | 28 | 5 | 91 | 2877 |
| .13000E 06 | .36940E-06 | .17330E 06 | .46520E-06 | .21670E 06 | .54920E-06 | | | | | | | | 28 | 5 | 91 | 2878 |
| .26000E 06 | .62260E-06 | .30330E 06 | .68610E-06 | .34670E 06 | .74080E-06 | | | | | | | | 28 | 5 | 91 | 2879 |

| | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|----|---|----|------|
| .39000E 04 | .74730E-06 | .43330E 06 | .82650E-06 | .47670E 06 | .85910E-06 | 28 | 5 | 91 | 2820 |
| .74000E 06 | .83500E-06 | .56330E 06 | .90660E-06 | .60670E 06 | .92270E-06 | 28 | 5 | 91 | 2821 |
| .02000E 00 | .93440E-06 | .69340E 06 | .94210E-06 | .73670E 06 | .94620E-06 | 28 | 5 | 91 | 2822 |
| .75000E 06 | .94720E-06 | .82330E 06 | .94530E-06 | .86670E 06 | .94390E-06 | 28 | 5 | 91 | 2823 |
| .71000E 06 | .93430E-06 | .95330E 06 | .92570E-06 | .99670E 06 | .91540E-06 | 28 | 5 | 91 | 2824 |
| .10400E 07 | .93500E-06 | .10530E 07 | .89060E-06 | .11270E 07 | .87640E-06 | 28 | 5 | 91 | 2825 |
| .11700E 07 | .84130E-06 | .12130E 07 | .84540E-06 | .12570E 07 | .82890E-06 | 28 | 5 | 91 | 2826 |
| .13000E 07 | .81200E-06 | .13000E 07 | .00000E 00 | .00000E 00 | .00000E 00 | 28 | 5 | 91 | 2827 |
| .30000E 03 | .60000E 07 | 0 | 1 | 1 | 32 | 28 | 5 | 91 | 2828 |
| | 32 | 2 | | | | 28 | 5 | 91 | 2829 |
| .10000E-04 | .00000E 00 | .76670E 05 | .12950E-06 | .15330E 06 | .23620E-06 | 28 | 5 | 91 | 2890 |
| .20000E 06 | .32300E-06 | .30670E 06 | .39280E-06 | .38330E 06 | .44790E-06 | 28 | 5 | 91 | 2891 |
| .46000E 06 | .42030E-06 | .53870E 06 | .52190E-06 | .61330E 06 | .54440E-06 | 28 | 5 | 91 | 2892 |
| .50000E 06 | .55900E-06 | .76670E 06 | .56700E-06 | .64330E 06 | .56950E-06 | 28 | 5 | 91 | 2893 |
| .20000E 00 | .55750E-06 | .99670E 06 | .56170E-06 | .10730E 07 | .55270E-06 | 28 | 5 | 91 | 2894 |
| .11500E 07 | .54140E-06 | .12270E 07 | .52680E-06 | .13030E 07 | .51320E-06 | 28 | 5 | 91 | 2895 |
| .13800E 07 | .49720E-06 | .14570E 07 | .48050E-06 | .15330E 07 | .46320E-06 | 28 | 5 | 91 | 2896 |
| .15100E 07 | .44360E-06 | .16870E 07 | .42800E-06 | .17630E 07 | .41040E-06 | 28 | 5 | 91 | 2897 |
| .16400E 07 | .39300E-06 | .19170E 07 | .37590E-06 | .19930E 07 | .35920E-06 | 28 | 5 | 91 | 2898 |
| .20700E 07 | .34300E-06 | .21470E 07 | .32730E-06 | .22230E 07 | .31220E-06 | 28 | 5 | 91 | 2899 |
| .23000E 07 | .29770E-06 | .23000E 07 | .00000E 00 | .00000E 00 | .00000E 00 | 28 | 5 | 91 | 2900 |
| .00000E 00 | .50600E 07 | 0 | 1 | 1 | 42 | 28 | 5 | 91 | 2901 |
| | 42 | 2 | | | | 28 | 5 | 91 | 2902 |
| .10000E-04 | .00000E 00 | .10750E 06 | .16450E-06 | .21500E 06 | .18680E-06 | 28 | 5 | 91 | 2903 |
| .32250E 07 | .22900E-06 | .43000E 06 | .29870E-06 | .53750E 06 | .33400E-06 | 28 | 5 | 91 | 2904 |
| .44500E 06 | .35800E-06 | .75200E 06 | .37430E-06 | .86000E 06 | .38300E-06 | 28 | 5 | 91 | 2905 |
| .46750E 06 | .38580E-06 | .10750E 07 | .38390E-06 | .11820E 07 | .37840E-06 | 28 | 5 | 91 | 2906 |
| .12900E 07 | .37000E-06 | .13970E 07 | .35950E-06 | .15050E 07 | .34730E-06 | 28 | 5 | 91 | 2907 |
| .16120E 07 | .33410E-06 | .17260E 07 | .32000E-06 | .18270E 07 | .30560E-06 | 28 | 5 | 91 | 2908 |
| .19350E 07 | .29100E-06 | .20640E 07 | .27640E-06 | .21500E 07 | .26210E-06 | 28 | 5 | 91 | 2909 |
| .22570E 07 | .24800E-06 | .23600E 07 | .23440E-06 | .24720E 07 | .22140E-06 | 28 | 5 | 91 | 2910 |
| .25800E 07 | .20880E-06 | .26870E 07 | .19690E-06 | .27950E 07 | .18560E-06 | 28 | 5 | 91 | 2911 |
| .29200E 07 | .17490E-06 | .30160E 07 | .16400E-06 | .31170E 07 | .15530E-06 | 28 | 5 | 91 | 2912 |
| .32250E 07 | .14650E-06 | .33320E 07 | .13820E-06 | .34400E 07 | .13050E-06 | 28 | 5 | 91 | 2913 |
| .35470E 07 | .12330E-06 | .36550E 07 | .11670E-06 | .37620E 07 | .11050E-06 | 28 | 5 | 91 | 2914 |
| .38700E 07 | .10480E-06 | .39770E 07 | .99490E-07 | .40850E 07 | .94630E-07 | 28 | 5 | 91 | 2915 |
| .41920E 07 | .93140E-07 | .43030E 07 | .86010E-07 | .43000E 07 | .00000E 00 | 28 | 5 | 91 | 2916 |
| .00000E 00 | .10000E 08 | 0 | 1 | 1 | 42 | 28 | 5 | 91 | 2917 |
| | 42 | 2 | | | | 28 | 5 | 91 | 2918 |
| .10000E-04 | .00000E 00 | .15750E 06 | .10930E-06 | .31500E 06 | .18870E-06 | 28 | 5 | 91 | 2919 |
| .47250E 06 | .24350E-06 | .63000E 06 | .28170E-06 | .76750E 06 | .30430E-06 | 28 | 5 | 91 | 2920 |
| .94500E 06 | .31570E-06 | .11620E 07 | .31860E-06 | .12600E 07 | .31520E-06 | 28 | 5 | 91 | 2921 |
| .14170E 07 | .30710E-06 | .15750E 07 | .29570E-06 | .17320E 07 | .28210E-06 | 28 | 5 | 91 | 2922 |
| .13900E 07 | .26720E-06 | .20470E 07 | .25150E-06 | .22050E 07 | .23560E-06 | 28 | 5 | 91 | 2923 |
| .23620E 07 | .21980E-06 | .25200E 07 | .20450E-06 | .26770E 07 | .18970E-06 | 28 | 5 | 91 | 2924 |
| .28350E 07 | .17570E-06 | .29920E 07 | .16250E-06 | .31500E 07 | .15020E-06 | 28 | 5 | 91 | 2925 |
| .33870E 07 | .13880E-06 | .34650E 07 | .12820E-06 | .36220E 07 | .11850E-06 | 28 | 5 | 91 | 2926 |
| .37880E 07 | .10970E-06 | .39370E 07 | .10160E-06 | .40950E 07 | .94240E-07 | 28 | 5 | 91 | 2927 |
| .42520E 07 | .87580E-07 | .44160E 07 | .81560E-07 | .45670E 07 | .76130E-07 | 28 | 5 | 91 | 2928 |
| .47250E 07 | .71240E-07 | .48920E 07 | .66850E-07 | .50400E 07 | .62910E-07 | 28 | 5 | 91 | 2929 |
| .51970E 07 | .59390E-07 | .53550E 07 | .56230E-07 | .55120E 07 | .53410E-07 | 28 | 5 | 91 | 2930 |
| .56700E 07 | .50890E-07 | .58270E 07 | .48640E-07 | .59850E 07 | .46630E-07 | 28 | 5 | 91 | 2931 |
| .61420E 07 | .44830E-07 | .63900E 07 | .43230E-07 | .63000E 07 | .00000E 00 | 28 | 5 | 91 | 2932 |
| .00000E 00 | .12000E 08 | 0 | 1 | 1 | 51 | 28 | 5 | 91 | 2933 |
| | 51 | 2 | | | | 28 | 5 | 91 | 2934 |
| .10000E-04 | .00000E 00 | .16600E 06 | .92890E-07 | .33200E 06 | .16130E-06 | 28 | 5 | 91 | 2935 |
| .49600E 06 | .21010E-06 | .66400E 06 | .24330E-06 | .83000E 06 | .26430E-06 | 28 | 5 | 91 | 2936 |
| .99600E 06 | .27570E-06 | .11620E 07 | .27970E-06 | .13280E 07 | .27810E-06 | 28 | 5 | 91 | 2937 |
| .14940E 07 | .27240E-06 | .16600E 07 | .26360E-06 | .18260E 07 | .25270E-06 | 28 | 5 | 91 | 2938 |
| .19920E 07 | .24650E-06 | .21580E 07 | .22740E-06 | .23240E 07 | .21390E-06 | 28 | 5 | 91 | 2939 |

| | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|----|---|----|------|
| .24900E 07 | .20050E-06 | .26560E 07 | .16720E-06 | .28220E 07 | .17430E-06 | 28 | 5 | 91 | 2940 |
| .29880E 07 | .15200E-06 | .31540E 07 | .15050E-06 | .33200E 07 | .13930E-06 | 28 | 5 | 91 | 2941 |
| .34860E 07 | .12900E-06 | .30520E 07 | .11940E-06 | .38180E 07 | .11950E-06 | 26 | 5 | 91 | 2942 |
| .39840E 07 | .10230E-06 | .4150E 07 | .94830E-07 | .43160E 07 | .67550E-07 | 26 | 5 | 91 | 2943 |
| .44820E 07 | .81660E-07 | .46480E 07 | .75940E-07 | .48140E 07 | .70749E-07 | 26 | 5 | 91 | 2944 |
| .49800E 07 | .66030E-07 | .51460E 07 | .61760E-07 | .53120E 07 | .57310E-07 | 28 | 5 | 91 | 2945 |
| .54780E 07 | .54430E-07 | .56440E 07 | .51250E-07 | .56300E 07 | .46470E-07 | 26 | 5 | 91 | 2946 |
| .59760E 07 | .45930E-07 | .61420E 07 | .43640E-07 | .63080E 07 | .41580E-07 | 28 | 5 | 91 | 2947 |
| .64740E 07 | .39740E-07 | .66400E 07 | .38070E-07 | .68060E 07 | .36580E-07 | 28 | 5 | 91 | 2948 |
| .69720E 07 | .35230E-07 | .71380E 07 | .34020E-07 | .73040E 07 | .32720E-07 | 28 | 5 | 91 | 2949 |
| .74700E 07 | .31930E-07 | .76360E 07 | .31040E-07 | .78020E 07 | .30230E-07 | 28 | 5 | 91 | 2950 |
| .79680E 07 | .29490E-07 | .81340E 07 | .28820E-07 | .83000E 07 | .00000E 00 | 28 | 5 | 91 | 2951 |
| .84660E 00 | .14600E 08 | 0 | 1 | 1 | 51 | 28 | 5 | 91 | 2952 |
| .89640E 00 | 51 | 2 | | | | 28 | 5 | 91 | 2953 |
| .94620E-04 | .00000E 00 | .20600E 06 | .24690E-07 | .41200E 06 | .16100E-06 | 28 | 5 | 91 | 2954 |
| .99600E 06 | .20540E-06 | .82400E 06 | .23300E-06 | .10300E 07 | .24790E-06 | 28 | 5 | 91 | 2955 |
| .10540E 07 | .25330E-06 | .14420E 07 | .25180E-06 | .16480E 07 | .24540E-06 | 26 | 5 | 91 | 2956 |
| .11480E 07 | .23350E-06 | .20600E 07 | .22350E-06 | .22660E 07 | .21020E-06 | 28 | 5 | 91 | 2957 |
| .12420E 07 | .19620E-06 | .26780E 07 | .18210E-06 | .28840E 07 | .16620E-06 | 28 | 5 | 91 | 2958 |
| .13360E 07 | .15490E-06 | .32960E 07 | .14220E-06 | .35020E 07 | .13030E-06 | 28 | 5 | 91 | 2959 |
| .14300E 07 | .11920E-06 | .39140E 07 | .10990E-06 | .41200E 07 | .99560E-07 | 28 | 5 | 91 | 2960 |
| .15240E 07 | .91030E-07 | .45320E 07 | .83280E-07 | .47380E 07 | .76270E-07 | 28 | 5 | 91 | 2961 |
| .16180E 07 | .69960E-07 | .51500E 07 | .64300E-07 | .53560E 07 | .59240E-07 | 26 | 5 | 91 | 2962 |
| .17120E 07 | .54710E-07 | .57680E 07 | .50600E-07 | .59740E 07 | .47590E-07 | 28 | 5 | 91 | 2963 |
| .18060E 07 | .43900E-07 | .63860E 07 | .41660E-07 | .65920E 07 | .38550E-07 | 28 | 5 | 91 | 2964 |
| .19000E 07 | .36320E-07 | .70040E 07 | .34340E-07 | .72100E 07 | .32580E-07 | 28 | 5 | 91 | 2965 |
| .19940E 07 | .31020E-07 | .76220E 07 | .29640E-07 | .78280E 07 | .28400E-07 | 28 | 5 | 91 | 2966 |
| .20880E 07 | .27300E-07 | .82400E 07 | .26320E-07 | .84460E 07 | .25430E-07 | 28 | 5 | 91 | 2967 |
| .21820E 07 | .24640E-07 | .88580E 07 | .23920E-07 | .90640E 07 | .23270E-07 | 26 | 5 | 91 | 2968 |
| .22760E 07 | .22620E-07 | .94760E 07 | .22140E-07 | .96820E 07 | .21440E-07 | 28 | 5 | 91 | 2969 |
| .23700E 07 | .21180E-07 | .10090E 08 | .20750E-07 | .10300E 06 | .00000E 00 | 28 | 5 | 91 | 2970 |
| .24640E 00 | .16000E 08 | 0 | 1 | 1 | 52 | 28 | 5 | 91 | 2971 |
| .25580E 00 | 52 | 2 | | | | 28 | 5 | 91 | 2972 |
| .26520E-04 | .00000E 00 | .24600E 06 | .96010E-07 | .49200E 06 | .16020E-06 | 28 | 5 | 91 | 2973 |
| .27460E 06 | .20650E-06 | .96400E 06 | .22320E-06 | .12300E 07 | .23300E-06 | 28 | 5 | 91 | 2974 |
| .28340E 07 | .23360E-06 | .17220E 07 | .22810E-06 | .19680E 07 | .21830E-06 | 28 | 5 | 91 | 2975 |
| .29220E 07 | .20500E-06 | .24600E 07 | .19190E-06 | .27060E 07 | .17740E-06 | 28 | 5 | 91 | 2976 |
| .30100E 07 | .16280E-06 | .31980E 07 | .14660E-06 | .34440E 07 | .13520E-06 | 28 | 5 | 91 | 2977 |
| .31040E 07 | .12260E-06 | .39360E 07 | .11090E-06 | .41820E 07 | .11020E-06 | 28 | 5 | 91 | 2978 |
| .31980E 07 | .90510E-07 | .46740E 07 | .61770E-07 | .49200E 07 | .73930E-07 | 28 | 5 | 91 | 2979 |
| .32920E 07 | .66940E-07 | .54120E 07 | .60720E-07 | .56580E 07 | .50720E-07 | 28 | 5 | 91 | 2980 |
| .33860E 07 | .50360E-07 | .61500E 07 | .46090E-07 | .63960E 07 | .42230E-07 | 28 | 5 | 91 | 2981 |
| .34800E 07 | .39020E-07 | .68880E 07 | .56130E-07 | .71340E 07 | .33590E-07 | 28 | 5 | 91 | 2982 |
| .35740E 07 | .31370E-07 | .76260E 07 | .29420E-07 | .78720E 07 | .27710E-07 | 28 | 5 | 91 | 2983 |
| .36680E 07 | .26210E-07 | .83640E 07 | .24880E-07 | .86100E 07 | .23720E-07 | 28 | 5 | 91 | 2984 |
| .37620E 07 | .22690E-07 | .91020E 07 | .21770E-07 | .93480E 07 | .20950E-07 | 28 | 5 | 91 | 2985 |
| .38560E 07 | .20220E-07 | .98400E 07 | .19560E-07 | .10090E 08 | .18960E-07 | 28 | 5 | 91 | 2986 |
| .39500E 08 | .18420E-07 | .10580E 08 | .17920E-07 | .10820E 08 | .17460E-07 | 26 | 5 | 91 | 2987 |
| .40440E 08 | .17040E-07 | .11320E 08 | .16640E-07 | .11560E 08 | .16760E-07 | 28 | 5 | 91 | 2988 |
| .41380E 08 | .15910E-07 | .12050E 08 | .15570E-07 | .12300E 08 | .15250E-07 | 28 | 5 | 91 | 2989 |
| .42320E 00 | .00000E 00 | .00000E 00 | .00000E 00 | .00000E 00 | .00000E 00 | 28 | 5 | 91 | 2990 |
| .43260E 00 | .20000E 08 | 0 | 1 | 1 | 52 | 26 | 5 | 91 | 2991 |
| .44200E 00 | 52 | 2 | | | | 28 | 5 | 91 | 2992 |
| .45140E-04 | .00000E 00 | .32600E 06 | .97870E-07 | .65200E 06 | .15790E-06 | 28 | 5 | 91 | 2993 |
| .46080E 06 | .19110E-06 | .13040E 07 | .20570E-06 | .16300E 07 | .24790E-06 | 28 | 5 | 91 | 2994 |
| .47020E 07 | .20180E-06 | .22820E 07 | .19070E-06 | .26080E 07 | .17670E-06 | 28 | 5 | 91 | 2995 |
| .47960E 07 | .16150E-06 | .32600E 07 | .14600E-06 | .35860E 07 | .13100E-06 | 28 | 5 | 91 | 2996 |
| .48900E 07 | .11680E-06 | .42380E 07 | .10370E-06 | .45640E 07 | .91550E-07 | 26 | 5 | 91 | 2997 |
| .49840E 07 | .81220E-07 | .52160E 07 | .71790E-07 | .55420E 07 | .63500E-07 | 28 | 5 | 91 | 2998 |
| .50780E 07 | .56250E-07 | .61940E 07 | .49950E-07 | .65200E 07 | .44200E-07 | 28 | 5 | 91 | 2999 |

| | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------|---|----|--------------|
| .66460E 07 | .39750E-07 | .71720E 07 | .35750E-07 | .74980E 07 | .32270E-07 | 28 | 5 | 91 | 3000 |
| .76240E 07 | .29250E-07 | .81500E 07 | .26750E-07 | .84760E 07 | .24550E-07 | 28 | 5 | 91 | 3001 |
| .86020E 07 | .22670E-07 | .91280E 07 | .21050E-07 | .94540E 07 | .19650E-07 | 28 | 5 | 91 | 3002 |
| .97800E 07 | .16440E-07 | .10110E 08 | .17390E-07 | .10430E 08 | .16470E-07 | 28 | 5 | 91 | 3003 |
| .10760E 08 | .15670E-07 | .11000E 08 | .14950E-07 | .11410E 08 | .14310E-07 | 28 | 5 | 91 | 3004 |
| .11740E 08 | .15740E-07 | .12060E 08 | .13220E-07 | .12390E 08 | .12750E-07 | 28 | 5 | 91 | 3005 |
| .12710E 08 | .12320E-07 | .13940E 08 | .11910E-07 | .13370E 08 | .11540E-07 | 28 | 5 | 91 | 3006 |
| .13690E 08 | .11180E-07 | .14620E 08 | .10650E-07 | .14340E 08 | .10530E-07 | 28 | 5 | 91 | 3007 |
| .14670E 08 | .10220E-07 | .15500E 08 | .99250E-08 | .15320E 08 | .96460E-08 | 28 | 5 | 91 | 3008 |
| .15650E 08 | .93720E-08 | .15970E 08 | .91000E-08 | .16300E 08 | .88500E-08 | 28 | 5 | 91 | 3009 |
| .16630E 08 | .80000E 08 | .00000E 00 | .00000E 00 | .00000E 00 | .00000E 00 | 26 | 5 | 91 | 3010 |
| | | | | | | 28 | 5 | 0 | 3011 |
| 0.00000+ 0 | 0.00000+ 0 | | | | | 28 | 0 | 0 | 3012 |
| 2.0000E+04 | 5.8165E+01 | | | | | | | | 2812102 3013 |
| 0. | 0. | | | | | | | | 2812102 3014 |
| | 2 | | | | | | | | 2812102 3015 |
| 1.0000E+05 | 1.4400E+01 | 2.0000E+07 | 4.6400E+00 | | | | | | 2812102 3016 |
| | | | | | | | | | 2812 0 3017 |
| | | | | | | | | | 28 0 0 3018 |
| 2.0000E+04 | 5.8165E+01 | | | | | | | | 2813 3 3019 |
| | | | | | | | | | 2813 3 3020 |
| | | | | | | | | | 2813 3 3021 |
| 1.1920E+06 | 0. | 1.3550E+06 | 1.5877E-02 | 1.4000E+06 | 9.1260E-02 | 2813 | 3 | | 3022 |
| 1.4500E+06 | 1.4513E-01 | 1.4770E+06 | 1.5955E-01 | 1.5000E+06 | 3.2600E-01 | 2813 | 3 | | 3023 |
| 1.5500E+06 | 2.8050E-01 | 1.6000E+06 | 3.0380E-01 | 1.6500E+06 | 4.1470E-01 | 2813 | 3 | | 3024 |
| 1.7600E+06 | 3.7760E-01 | 1.7500E+06 | 4.3450E-01 | 1.8000E+06 | 4.9040E-01 | 2813 | 3 | | 3025 |
| 1.8500E+06 | 4.2130E-01 | 1.9000E+06 | 4.5720E-01 | 2.0000E+06 | 5.9900E-01 | 2813 | 3 | | 3026 |
| 2.1950E+06 | 6.0046E-01 | 2.2000E+06 | 6.1140E-01 | 2.2500E+06 | 6.3537E-01 | 2813 | 3 | | 3027 |
| 2.3240E+06 | 7.1579E-01 | 2.4000E+06 | 8.1530E-01 | 2.5000E+06 | 6.7965E-01 | 2813 | 3 | | 3028 |
| 2.5480E+06 | 9.2259E-01 | 2.6000E+06 | 9.7400E-01 | 2.6700E+06 | 1.0115E+00 | 2813 | 3 | | 3029 |
| 2.6600E+06 | 1.1012E+00 | 2.8220E+06 | 1.1183E+00 | 2.9000E+06 | 1.2369E+00 | 2813 | 3 | | 3030 |
| 3.0000E+06 | 1.3466E+00 | 3.0100E+06 | 1.3547E+00 | 3.1100E+06 | 1.5358E+00 | 2813 | 3 | | 3031 |
| 3.2000E+06 | 1.6376E+00 | 3.2500E+06 | 1.6569E+00 | 3.3250E+06 | 1.6718E+00 | 2813 | 3 | | 3032 |
| 3.4000E+06 | 1.7317E+00 | 3.5000E+06 | 1.8495E+00 | 3.5500E+06 | 1.8546E+00 | 2813 | 3 | | 3033 |
| 3.6000E+06 | 1.8572E+00 | 3.6000E+06 | 1.9126E+00 | 3.7500E+06 | 2.0001E+00 | 2813 | 3 | | 3034 |
| 3.9999E+06 | 2.1519E+00 | 4.0000E+06 | 2.1519E+00 | 6.0000E+06 | 3.6500E+00 | 2813 | 3 | | 3035 |
| 8.0000E+06 | 4.6160E+00 | 1.2000E+07 | 3.7500E+00 | 1.4000E+07 | 2.7500E+00 | 2813 | 3 | | 3036 |
| 2.0000E+07 | 2.7500E+00 | | | | | 2813 | 3 | | 3037 |
| 3.2700E+06 | 0. | | | | | 2 | | | 2813 3 3038 |
| | 5 | | | | | 1 | | | 2813 3 3039 |
| 3.3250E+06 | 0. | 3.5000E+06 | 6.9300E-02 | 3.7500E+06 | 1.0710E-01 | 2813 | 3 | | 3040 |
| 3.9999E+06 | 1.1340E-01 | 4.0000E+06 | 0. | | | 2813 | 3 | | 3041 |
| 2.9600E+06 | 0. | | | | | 2 | | | 2813 3 3042 |
| | 7 | | | | | 1 | | | 2813 3 3043 |
| 3.0100E+06 | 0. | 3.1100E+06 | 5.0000E-03 | 3.2500E+06 | 7.3000E-03 | 2813 | 3 | | 3044 |
| 3.0000E+06 | 9.3000E-03 | 3.7500E+06 | 9.8000E-03 | 3.9999E+06 | 9.3000E-03 | 2813 | 3 | | 3045 |
| 4.0000E+06 | 0. | | | | | 2813 | 3 | | 3046 |
| 2.7750E+06 | 0. | | | | | 2 | | | 2813 3 3047 |
| | 8 | | | | | 1 | | | 2813 3 3048 |
| 2.8220E+06 | 0. | 2.9000E+06 | 2.3000E-03 | 3.0000E+06 | 3.6000E-03 | 2813 | 3 | | 3049 |
| 3.2500E+06 | 5.0000E-03 | 3.5000E+06 | 5.6000E-03 | 3.7500E+06 | 5.6000E-03 | 2813 | 3 | | 3050 |
| 3.9999E+06 | 5.3000E-03 | 4.0000E+06 | 0. | | | 2813 | 3 | | 3051 |
| 2.1740E+06 | 0. | | | | | 2 | | | 2813 3 3052 |
| | 4 | | | | | 1 | | | 2813 3 3053 |
| 3.6890E+06 | 0. | 3.7500E+06 | 8.5000E-03 | 3.9999E+06 | 2.1300E-02 | 2813 | 3 | | 3054 |
| 4.0000E+06 | 0. | | | | | 2813 | 3 | | 3055 |
| 2.1580E+06 | 0. | | | | | 2 | | | 2813 3 3056 |
| | 9 | | | | | 1 | | | 2813 3 3057 |
| 2.1950E+06 | 0. | 2.2000E+06 | 9.0000E-04 | 2.4000E+06 | 5.4000E-03 | 2813 | 3 | | 3058 |
| 2.6000E+06 | 7.2000E-03 | 2.8000E+06 | 9.0000E-03 | 3.0000E+06 | 1.0900E-02 | 2813 | 3 | | 3059 |

| | | | | | | | |
|------------|------------|------------|------------|------------|------------|------|-------------|
| 3.5000E+06 | 1.0600E-02 | 3.9999E+06 | 8.7000E-03 | 4.0000E+06 | 0. | 2813 | 3 3060 |
| 1.8160E+06 | 0. | | | 2 | 1 | 5 | 2813 3 3061 |
| | | 2 | | | | | 2813 3 3062 |
| 3.3250E+06 | 0. | 3.5700E+06 | 4.0700E-02 | 3.7500E+06 | 6.2900E-02 | 2813 | 3 3063 |
| 3.9999E+06 | 6.0600E-02 | 4.0000E+06 | 0. | | | 2813 | 3 3064 |
| 1.5060E+06 | 0. | | | 2 | 1 | 7 | 2813 3 3065 |
| | | 2 | | | | | 2813 3 3066 |
| 3.0100E+06 | 0. | 3.1100E+06 | 9.5000E-02 | 3.2500E+06 | 1.3700E-01 | 2813 | 3 3067 |
| 3.5000E+06 | 1.7560E-01 | 3.7500E+06 | 1.2530E-01 | 3.9999E+06 | 1.7500E-01 | 2813 | 3 3068 |
| 4.0000E+06 | 0. | | | | | 2813 | 3 3069 |
| 1.4540E+06 | 0. | | | 7 | 1 | 22 | 2813 3 3070 |
| | | 2 | | | | | 2813 3 3071 |
| 1.4790E+06 | 0. | 1.5900E+06 | 2.5000E-01 | 1.5500E+06 | 1.1500E-01 | 2813 | 3 3072 |
| 1.4000E+06 | 1.5300E-01 | 1.6500E+06 | 2.6000E-01 | 1.7000E+06 | 2.0000E-01 | 2813 | 3 3073 |
| 1.7500E+06 | 2.6000E-01 | 1.8000E+06 | 3.2000E-01 | 1.8500E+06 | 2.5000E-01 | 2813 | 3 3074 |
| 1.7000E+06 | 2.5000E-01 | 2.0100E+06 | 3.6000E-01 | 2.2500E+06 | 3.7000E-01 | 2813 | 3 3075 |
| 2.4000E+06 | 4.4000E-01 | 2.6000E+06 | 4.8390E-01 | 2.3000E+06 | 5.1000E-01 | 2813 | 3 3076 |
| 3.1000E+06 | 5.5240E-01 | 3.2000E+06 | 7.1570E-01 | 3.4000E+06 | 7.1500E-01 | 2813 | 3 3077 |
| 3.5000E+06 | 7.5690E-01 | 3.6000E+06 | 7.5400E-01 | 3.9999E+06 | 8.8100E-01 | 2813 | 3 3078 |
| 4.0000E+06 | 0. | | | | | 2813 | 3 3079 |
| 1.3330E+06 | 0. | | | 2 | 1 | 21 | 2813 3 3080 |
| | | 2 | | | | | 2813 3 3081 |
| 1.3550E+06 | 0. | 1.4000E+06 | 7.1000E-02 | 1.4500E+06 | 1.2000E-01 | 2813 | 3 3082 |
| 1.5000E+06 | 1.4000E-01 | 1.5500E+06 | 1.3500E-01 | 1.6000E+06 | 1.2000E-01 | 2813 | 3 3083 |
| 1.5500E+06 | 1.2200E-01 | 1.7000E+06 | 1.4400E-01 | 1.7500E+06 | 1.2000E-01 | 2813 | 3 3084 |
| 1.6000E+06 | 1.3500E-01 | 1.6500E+06 | 1.3000E-01 | 1.6000E+06 | 1.7000E-01 | 2813 | 3 3085 |
| 2.1000E+06 | 1.8000E-01 | 2.2000E+06 | 1.8910E-01 | 2.4000E+06 | 2.5000E-01 | 2813 | 3 3086 |
| 2.6000E+06 | 2.9070E-01 | 2.8000E+06 | 3.2100E-01 | 3.0000E+06 | 3.3000E-01 | 2813 | 3 3087 |
| 3.0000E+06 | 3.0200E-01 | 3.9999E+06 | 2.4100E-01 | 4.0000E+06 | 0. | 2813 | 3 3088 |
| 1.3210E+06 | 0. | | | 2 | 1 | 8 | 2813 3 3089 |
| | | 2 | | | | | 2813 3 3090 |
| 2.0220E+06 | 0. | 2.9000E+06 | 5.5700E-02 | 3.0000E+06 | 8.6000E-02 | 2813 | 3 3091 |
| 3.2500E+06 | 1.2000E-01 | 3.5500E+06 | 1.3440E-01 | 3.7500E+06 | 1.3100E-01 | 2813 | 3 3092 |
| 3.9999E+06 | 1.2670E-01 | 4.0000E+06 | 0. | | | 2813 | 3 3093 |
| 1.2920E+06 | 0. | | | 2 | 1 | 6 | 2813 3 3094 |
| | | 2 | | | | | 2813 3 3095 |
| 2.0700E+06 | 0. | 2.8000E+06 | 6.0000E-03 | 3.0000E+06 | 1.5500E-02 | 2813 | 3 3096 |
| 3.5000E+06 | 1.0200E-02 | 3.9999E+06 | 1.5900E-02 | 4.0000E+06 | 0. | 2813 | 3 3097 |
| 1.1730E+06 | 0. | | | 2 | 1 | 9 | 2813 3 3098 |
| | | 2 | | | | | 2813 3 3099 |
| 2.5000E+06 | 0. | 2.6000E+06 | 4.9000E-03 | 2.6000E+06 | 9.9000E-03 | 2813 | 3 3100 |
| 3.0000E+06 | 1.3300E-02 | 3.2000E+06 | 1.5700E-02 | 3.4000E+06 | 1.0990E-02 | 2813 | 3 3101 |
| 3.5000E+06 | 1.7400E-02 | 3.9999E+06 | 1.5700E-02 | 4.0000E+06 | 0. | 2813 | 3 3102 |
| 1.1720E+06 | 0. | | | 2 | 1 | 7 | 2813 3 3103 |
| | | 2 | | | | | 2813 3 3104 |
| 1.1920E+06 | 0. | 1.5300E+06 | 3.0000E-02 | 2.0000E+06 | 3.9000E-02 | 2813 | 3 3105 |
| 2.5000E+06 | 4.0000E-02 | 3.0000E+06 | 3.7000E-02 | 3.9999E+06 | 2.0000E-02 | 2813 | 3 3106 |
| 4.0000E+06 | 0. | | | | | 2813 | 3 3107 |
| 1.1690E+06 | 0. | | | 2 | 1 | 4 | 2813 3 3108 |
| | | 2 | | | | | 2813 3 3109 |
| 3.0690E+06 | 0. | 3.7500E+06 | 4.1500E-02 | 3.9999E+06 | 1.0360E-01 | 2813 | 3 3110 |
| 4.0000E+06 | 0. | | | | | 2813 | 3 3111 |
| 1.0050E+06 | 0. | | | 2 | 1 | 9 | 2813 3 3112 |
| | | 2 | | | | | 2813 3 3113 |
| 2.5000E+06 | 0. | 2.6000E+06 | 2.5900E-02 | 2.8000E+06 | 5.5000E-02 | 2813 | 3 3114 |
| 3.0000E+06 | 6.6000E-02 | 3.2000E+06 | 7.9700E-02 | 3.4000E+06 | 8.5000E-02 | 2813 | 3 3115 |
| 3.0000E+06 | 6.7000E-02 | 3.9999E+06 | 1.6200E-01 | 4.0000E+06 | 0. | 2813 | 3 3116 |
| 9.5300E+06 | 0. | | | 2 | 1 | 8 | 2813 3 3117 |
| | | 2 | | | | | 2813 3 3118 |
| 2.3240E+06 | 0. | 2.4000E+06 | 2.0000E-02 | 2.6000E+06 | 4.2000E-02 | 2813 | 3 3119 |

| | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------|-----|------|
| 2.5000E+05 | 5.5000E+02 | 3.0000E+06 | 5.5000E+02 | 3.5000E+06 | 5.4000E+02 | 2613 | 3 | 3120 |
| 3.9999E+05 | 4.0000E+02 | 4.0000E+06 | 0. | | | 2613 | 3 | 3121 |
| 0.2500E+05 | 0. | | | | | 2613 | 3 | 3122 |
| | 2 | | | | | 2613 | 3 | 3123 |
| 2.1950E+05 | 0. | 2.2000E+06 | 1.0000E+02 | 2.4000E+06 | 6.0000E+02 | 2613 | 3 | 3124 |
| 2.0000E+05 | 6.0000E+02 | 2.6000E+06 | 9.0000E+02 | 3.0000E+06 | 1.2600E+01 | 2613 | 3 | 3125 |
| 3.0000E+05 | 1.0000E+01 | 3.9999E+06 | 0.6400E+02 | 4.0000E+06 | 0. | 2613 | 3 | 3126 |
| 4.0000E+05 | 0. | | 2 | | | 2613 | 3 | 3127 |
| | 2 | | | | | 2613 | 3 | 3128 |
| 2.6700E+05 | 0. | 2.6000E+06 | 1.4000E+02 | 3.0000E+06 | 3.1500E+02 | 2613 | 3 | 3129 |
| 3.5000E+05 | 3.0000E+02 | 3.9999E+06 | 3.7000E+02 | 4.0000E+06 | 0. | 2613 | 3 | 3130 |
| 0. | 0. | | | | | 2613 | 3 | 3131 |
| | 7 | | | | | 2613 | 3 | 3132 |
| 3.9999E+05 | 0. | 4.0000E+06 | 2.1500E+01 | 6.0000E+06 | 3.0000E+06 | 2613 | 3 | 3133 |
| 0.0000E+05 | 4.6100E+05 | 1.2000E+07 | 3.7500E+05 | 1.4000E+07 | 2.7600E+00 | 2613 | 3 | 3134 |
| 2.0000E+07 | 2.7500E+00 | | | | | 2613 | 3 | 3135 |
| | | | | | | 2613 | 0 | 3136 |
| | | | | | | 2613 | 0 | 3137 |
| 2.0000E+04 | 5.5185E+01 | | 1 | | 19 | 2614 | 0 | 3138 |
| | | | | | | 2614 | 0 | 3139 |
| 2.0000E+04 | 5.5185E+01 | | 1 | | 1 | 2614 | 102 | 3140 |
| | | | | | | 2614 | 0 | 3141 |
| | | | | | | 2614 | 0 | 3142 |
| 2.0000E+04 | 5.5185E+01 | | | 1 | | 2615 | 3 | 3143 |
| 0. | | 0 | | 1 | | 2615 | 3 | 3144 |
| | 2 | | | | | 2615 | 3 | 3145 |
| 3.9999E+05 | 1.0000E+00 | 2.0000E+07 | 1.0000E+00 | | | 2615 | 3 | 3146 |
| | | | | | | 2615 | 3 | 3147 |
| | 0 | | | | | 2615 | 3 | 3148 |
| 0. | 3.9999E+05 | | 0 | | | 2615 | 3 | 3149 |
| | 10 | | | | | 2615 | 3 | 3150 |
| 7.5000E+05 | 6.3800E+07 | 1.0000E+06 | 5.7500E+07 | 1.2500E+06 | 1.0000E+06 | 2615 | 3 | 3151 |
| 1.5000E+05 | 2.0000E+07 | 1.7500E+06 | 1.6366E+07 | 2.0000E+06 | 9.4166E+08 | 2615 | 3 | 3152 |
| 2.5000E+05 | 4.2212E+06 | 3.0000E+06 | 6.7216E+06 | 3.5000E+06 | 2.2000E+06 | 2615 | 3 | 3153 |
| 4.0000E+05 | 0. | | | | | 2615 | 3 | 3154 |
| 0. | 6.0000E+06 | | 0 | | | 2615 | 3 | 3155 |
| | 14 | | | | | 2615 | 3 | 3156 |
| 2.5000E+05 | 1.3630E+07 | 5.0000E+05 | 2.7261E+07 | 7.5000E+05 | 5.1796E+07 | 2615 | 3 | 3157 |
| 1.0000E+05 | 5.4796E+07 | 1.2500E+06 | 1.2526E+06 | 1.5000E+06 | 2.4760E+07 | 2615 | 3 | 3158 |
| 1.7500E+05 | 1.0000E+07 | 2.0000E+06 | 1.2336E+07 | 2.5000E+06 | 1.0000E+07 | 2615 | 3 | 3159 |
| 3.0000E+05 | 9.1324E+06 | 3.5000E+06 | 3.6000E+06 | 4.0000E+06 | 2.3000E+06 | 2615 | 3 | 3160 |
| 4.0000E+05 | 7.4960E+09 | 5.0000E+06 | 5.2475E+09 | 5.5000E+06 | 2.5598E+09 | 2615 | 3 | 3161 |
| 6.0000E+04 | 0. | | | | | 2615 | 3 | 3162 |
| 0. | 6.0000E+06 | | 0 | | | 2615 | 3 | 3163 |
| | 20 | | | | | 2615 | 3 | 3164 |
| 2.5000E+05 | 1.1730E+07 | 5.0000E+05 | 2.3460E+07 | 7.5000E+05 | 4.1076E+07 | 2615 | 3 | 3165 |
| 1.0000E+05 | 1.1044E+07 | 1.2500E+06 | 9.7592E+07 | 1.5000E+06 | 2.4730E+07 | 2615 | 3 | 3166 |
| 1.7500E+05 | 1.9472E+07 | 2.0000E+06 | 1.4193E+07 | 2.5000E+06 | 1.4562E+07 | 2615 | 3 | 3167 |
| 3.0000E+05 | 1.1554E+07 | 3.5000E+06 | 7.1000E+06 | 4.0000E+06 | 4.0000E+06 | 2615 | 3 | 3168 |
| 4.0000E+05 | 3.0000E+06 | 5.0000E+06 | 2.1756E+06 | 5.5000E+06 | 1.0000E+06 | 2615 | 3 | 3169 |
| 6.0000E+05 | 1.4076E+08 | 6.5000E+06 | 6.3342E+09 | 7.0000E+06 | 4.9652E+09 | 2615 | 3 | 3170 |
| 7.0000E+05 | 2.0000E+09 | 8.0000E+06 | 0. | | | 2615 | 3 | 3171 |
| 0. | 1.2000E+07 | | 0 | | | 2615 | 3 | 3172 |
| | 1 | | | | | 2615 | 3 | 3173 |
| 2.5000E+05 | 1.0000E+07 | 5.0000E+05 | 2.6710E+07 | 7.5000E+05 | 3.8596E+07 | 2615 | 3 | 3174 |
| 1.0000E+05 | 5.0000E+07 | 1.2500E+06 | 7.6928E+07 | 1.5000E+06 | 2.3238E+07 | 2615 | 3 | 3175 |
| 1.7500E+05 | 1.6560E+07 | 2.0000E+06 | 1.2954E+07 | 2.5000E+06 | 1.2687E+07 | 2615 | 3 | 3176 |
| 3.0000E+05 | 1.1000E+07 | 3.5000E+06 | 7.0782E+08 | 4.0000E+06 | 6.3504E+08 | 2615 | 3 | 3177 |
| 4.0000E+05 | 4.6814E+08 | 5.0000E+06 | 4.1200E+08 | 5.5000E+06 | 4.1400E+08 | 2615 | 3 | 3178 |
| 6.0000E+05 | 3.6126E+08 | 6.5000E+06 | 2.6978E+09 | 7.0000E+06 | 2.6110E+08 | 2615 | 3 | 3179 |

| | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|---------|---------|------|------|
| 7.2000E+06 | 1.0894E-08 | 3.0000E+06 | 1.4156E-08 | 8.5000E+06 | 4.7410E-09 | 2815 | 3 | 3180 | |
| 9.0000E+06 | 4.0066E-09 | 9.5000E+06 | 0. | | | 2815 | 3 | 3181 | |
| 0. | 1.4000E+07 | 0 | | | 1 | 24 | 2815 | 3 | 3182 |
| | 24 | 1 | | | | | 2815 | 3 | 3183 |
| 2.2000E+05 | 1.8185E-07 | 5.0000E+05 | 3.6370E-07 | 7.5000E+05 | 3.9826E-07 | 2815 | 3 | 3184 | |
| 1.0000E+06 | 5.3528E-07 | 1.2500E+06 | 8.0560E-07 | 1.5000E+06 | 2.4732E-07 | 2815 | 3 | 3185 | |
| 1.7500E+06 | 1.7876E-07 | 2.0000E+06 | 1.2082E-07 | 2.5000E+06 | 1.0520E-07 | 2815 | 3 | 3186 | |
| 3.0000E+06 | 1.0093E-07 | 3.5000E+06 | 5.8556E-08 | 4.0000E+06 | 3.9370E-08 | 2815 | 3 | 3187 | |
| 4.0000E+06 | 4.7404E-08 | 5.0000E+06 | 2.7186E-08 | 5.5000E+06 | 3.4278E-08 | 2815 | 3 | 3188 | |
| 6.0000E+06 | 3.4460E-08 | 6.5000E+06 | 1.6456E-08 | 7.0000E+06 | 1.9913E-08 | 2815 | 3 | 3189 | |
| 7.0000E+06 | 1.4730E-08 | 8.0000E+06 | 1.4730E-08 | 8.5000E+06 | 3.124E-09 | 2815 | 3 | 3190 | |
| 9.0000E+06 | 2.9096E-09 | 9.5000E+06 | 2.7276E-09 | 1.0000E+07 | 0. | 2815 | 3 | 3191 | |
| 0. | 2.0000E+07 | 0 | | | 1 | 24 | 2815 | 3 | 3192 |
| | 24 | 1 | | | | | 2815 | 3 | 3193 |
| 2.2000E+05 | 1.8111E-07 | 5.0000E+05 | 3.6222E-07 | 7.5000E+05 | 4.8900E-07 | 2815 | 3 | 3194 | |
| 1.0000E+06 | 6.3268E-07 | 1.2500E+06 | 7.8059E-07 | 1.5000E+06 | 3.0789E-07 | 2815 | 3 | 3195 | |
| 1.7500E+06 | 2.276E-07 | 2.0000E+06 | 1.2497E-07 | 2.5000E+06 | 1.2134E-07 | 2815 | 3 | 3196 | |
| 3.0000E+06 | 6.7305E-08 | 3.5000E+06 | 4.7270E-08 | 4.0000E+06 | 2.8706E-08 | 2815 | 3 | 3197 | |
| 4.0000E+06 | 2.2458E-08 | 5.0000E+06 | 2.3364E-08 | 5.5000E+06 | 1.3255E-08 | 2815 | 3 | 3198 | |
| 6.0000E+06 | 2.0466E-08 | 6.5000E+06 | 1.3493E-08 | 7.0000E+06 | 5.5238E-09 | 2815 | 3 | 3199 | |
| 7.0000E+06 | 6.7910E-09 | 8.0000E+06 | 6.4294E-09 | 8.5000E+06 | 6.2484E-09 | 2815 | 3 | 3200 | |
| 9.0000E+06 | 1.1772E-09 | 9.5000E+06 | 7.2443E-10 | 1.0000E+07 | 0. | 2815 | 3 | 3201 | |
| | | | | | | 2815 | 0 | 3202 | |
| 2.2000E+04 | 5.8185E+02 | | | | 1 | | 2815102 | 3203 | |
| 0. | | 0 | | 1 | 1 | 2 | 2815102 | 3204 | |
| | 2 | 2 | | | | | 2815102 | 3205 | |
| 1.0000E+05 | 1.0000E+00 | 2.0000E+07 | 1.0000E+00 | | | | 2815102 | 3206 | |
| | | | | | 1 | 2 | 2815102 | 3207 | |
| | 2 | 2 | | | | | 2815102 | 3208 | |
| 0. | 1.0000E+05 | 0 | | | 1 | 36 | 2815102 | 3209 | |
| | 36 | 1 | | | | | 2815102 | 3210 | |
| 2.5000E+05 | 5.9092E-07 | 5.0000E+05 | 0. | 7.5000E+05 | 1.3659E-07 | 2815102 | 3211 | | |
| 1.0000E+06 | 4.1812E-08 | 1.2500E+06 | 3.9024E-08 | 1.5000E+06 | 1.9512E-08 | 2815102 | 3212 | | |
| 1.7500E+06 | 8.3624E-08 | 2.0000E+06 | 4.1812E-08 | 2.2500E+06 | 1.3937E-08 | 2815102 | 3213 | | |
| 2.5000E+06 | 5.5748E-08 | 2.7500E+06 | 5.5748E-08 | 3.0000E+06 | 2.7875E-08 | 2815102 | 3214 | | |
| 3.2500E+06 | 2.5087E-08 | 3.5000E+06 | 2.7875E-08 | 3.7500E+06 | 1.9512E-08 | 2815102 | 3215 | | |
| 4.0000E+06 | 1.6725E-08 | 4.2500E+06 | 1.6725E-08 | 4.5000E+06 | 2.5887E-08 | 2815102 | 3216 | | |
| 4.7500E+06 | 4.4600E-08 | 5.0000E+06 | 2.2309E-08 | 5.2500E+06 | 5.5748E-08 | 2815102 | 3217 | | |
| 5.5000E+06 | 2.7875E-08 | 5.7500E+06 | 1.0035E-07 | 6.0000E+06 | 6.9684E-08 | 2815102 | 3218 | | |
| 6.2500E+06 | 2.5087E-08 | 6.5000E+06 | 6.9684E-08 | 6.7500E+06 | 3.1220E-07 | 2815102 | 3219 | | |
| 7.0000E+06 | 0. | 7.2500E+06 | 5.5748E-09 | 7.5000E+06 | 1.5889E-07 | 2815102 | 3220 | | |
| 7.7500E+06 | 2.2857E-07 | 8.0000E+06 | 9.4772E-08 | 8.2500E+06 | 5.5748E-09 | 2815102 | 3221 | | |
| 8.5000E+06 | 4.7388E-07 | 8.7500E+06 | 1.0676E-08 | 9.0000E+06 | 0. | 2815102 | 3222 | | |
| 0. | 2.0000E+07 | 0 | | | 1 | 36 | 2815102 | 3223 | |
| | 36 | 1 | | | | | 2815102 | 3224 | |
| 2.5000E+05 | 5.9092E-07 | 5.0000E+05 | 0. | 7.5000E+05 | 1.3659E-07 | 2815102 | 3225 | | |
| 1.0000E+06 | 4.1812E-08 | 1.2500E+06 | 3.9024E-08 | 1.5000E+06 | 1.9512E-08 | 2815102 | 3226 | | |
| 1.7500E+06 | 8.3624E-08 | 2.0000E+06 | 4.1812E-08 | 2.2500E+06 | 1.3937E-08 | 2815102 | 3227 | | |
| 2.5000E+06 | 5.5748E-08 | 2.7500E+06 | 5.5748E-08 | 3.0000E+06 | 2.7875E-08 | 2815102 | 3228 | | |
| 3.2500E+06 | 2.5087E-08 | 3.5000E+06 | 2.7875E-08 | 3.7500E+06 | 1.9512E-08 | 2815102 | 3229 | | |
| 4.0000E+06 | 1.6725E-08 | 4.2500E+06 | 1.6725E-08 | 4.5000E+06 | 2.5887E-08 | 2815102 | 3230 | | |
| 4.7500E+06 | 4.4600E-08 | 5.0000E+06 | 2.2309E-08 | 5.2500E+06 | 5.5748E-08 | 2815102 | 3231 | | |
| 5.5000E+06 | 2.7875E-08 | 5.7500E+06 | 1.0035E-07 | 6.0000E+06 | 6.9684E-08 | 2815102 | 3232 | | |
| 6.2500E+06 | 2.5087E-08 | 6.5000E+06 | 6.9684E-08 | 6.7500E+06 | 3.1220E-07 | 2815102 | 3233 | | |
| 7.0000E+06 | 0. | 7.2500E+06 | 5.5748E-09 | 7.5000E+06 | 1.5889E-07 | 2815102 | 3234 | | |
| 7.7500E+06 | 2.2857E-07 | 8.0000E+06 | 9.4772E-08 | 8.2500E+06 | 5.5748E-09 | 2815102 | 3235 | | |
| 8.5000E+06 | 4.7388E-07 | 8.7500E+06 | 1.0676E-08 | 9.0000E+06 | 0. | 2815102 | 3236 | | |
| | | | | | | 2815 | 0 | 3237 | |
| | | | | | | 28 | 0 | 0 | 3238 |
| | | | | | | 28 | 0 | 0 | 3239 |

•EFF

26 0 0 3240
26 0 0 3241
26 0 0 3242
26 0 0 3243
26 0 0 3244
26 0 0 3245
26 3 16 3246
26 3 16 3247
26 3 16 3248
26 3 16 3249
26 3 16 3250
26 3 16 3251
26 3 16 3252
26 3 16 3253
26 3 16 3254
26 3 0 3255
26 3 28 3256
26 3 28 3257
26 3 28 3258
26 3 28 3259
26 3 28 3260
26 3 28 3261
26 3 0 3262
26 3103 3263
26 3103 3264
26 3103 3265
26 3103 3266
26 3103 3267
26 3103 3268
26 3103 3269
26 3103 3270
26 3103 3271
26 3103 3272
26 3103 3273
26 3103 3274
26 3103 3275
26 3103 3276
26 3103 3277
26 3103 3278
26 3103 3279
26 3103 3280
26 3103 3281
26 3103 3282
26 3102 3283
26 3103 3284
26 3103 3285
26 3103 3286
26 3103 3287
26 3103 3288
26 3103 3289
26 3103 3290
26 3103 3291
26 3103 3292
26 3103 3293
26 3103 3294
26 3103 3295
26 3 0 3296
26 3104 3297
26 3104 3298
26 3104 3299

***** ISOTOPIC REACTION FILES *****

***** NI-58 ISOTOPIC REACTION FILE *****

2.60000+ 4 5.30000+ 1 0 99 0 0
0.00000E+00-1.2203E+07 0 0 1 16
16 2 0 0 0
.12410E 08 .00000E 00 .13000E 08 .46000E-02 .13500E 08 .13000E-01 26 3 16 3246
.14000E 08 .23000E-01 .14500E 06 .31000E-01 .15000E 08 .38000E-01 26 3 16 3247
.15500E 08 .42500E-01 .16000E 08 .46000E-01 .16500E 08 .49000E-01 26 3 16 3248
.17000E 08 .51500E-01 .17000E 08 .54000E-01 .18000E 08 .56500E-01 26 3 16 3249
.18500E 08 .58000E-01 .19000E 08 .61000E-01 .19500E 08 .63600E-01 26 3 16 3250
.20000E 06 .66000E-01 .00000E 00 .00000E 00 .00000E 00 .00000E 00 26 3 16 3251
2.60000+ 4 5.30000+ 1 0 99 0 0
0.00000E+00-8.1772E+06 0 0 1 7
7 2 0 0 0
.63190E 07 .00000E 00 .10000E 08 .10000E 09 .12000E 08 .28400E 00 26 3 28 3256
.14500E 08 .55000E 00 .16000E 08 .68000E 09 .18000E 08 .80000E 00 26 3 28 3257
.20000E 08 .88000E 00 .11500E 08 .16400E-01 .12000E 08 .21000E-01 26 3 28 3258
.00000E 00 .00000E 00 26 3 0 3259
2.60000+ 4 5.30000+ 1 0 99 0 0
0.00000+ 0 3.74700+ 5 0 0 1 66
86 2
.10000E 01 .00000E 00 .10000E 06 .26000E-05 .65000E 06 .28000E-05 26 3103 3263
.67000E 06 .12000E-04 .68000E 06 .23000E-04 .69000E 06 .34000E-04 26 3103 3264
.70000E 06 .44000E-04 .73000E 06 .61000E-04 .75000E 06 .11000E-03 26 3103 3265
.80000E 06 .19000E-03 .85000E 06 .30000E-03 .90000E 06 .46000E-03 26 3103 3266
.95000E 06 .63000E-03 .10000E 07 .10000E-02 .10400E 07 .15000E-02 26 3103 3267
.11000E 07 .20000E-02 .11400E 07 .33000E-02 .12000E 07 .42000E-02 26 3103 3268
.12600E 07 .50000E-02 .13000E 07 .55000E-02 .13400E 07 .65000E-02 26 3103 3269
.13600E 07 .75000E-02 .14000E 07 .90000E-02 .15000E 07 .12000E-01 26 3103 3270
.16000E 07 .15000E-01 .17000E 07 .20000E-01 .18000E 07 .26000E-01 26 3103 3271
.19000E 07 .33000E-01 .20000E 07 .39000E-01 .21000E 07 .46000E-01 26 3103 3272
.21900E 07 .53000E-01 .23000E 07 .75000E-01 .24000E 07 .90000E-01 26 3103 3273
.25000E 07 .10000E 00 .26000E 07 .11500E 00 .27000E 07 .13700E 00 26 3103 3274
.25000E 07 .15200E 00 .29000E 07 .17500E 00 .29400E 07 .19300E 00 26 3103 3275
.29600E 07 .19800E 00 .29000E 07 .19900E 00 .30000E 07 .19300E 00 26 3103 3276
.30400E 07 .18300E 00 .30000E 07 .18100E 00 .31200E 07 .18300E 00 26 3103 3277
.32000E 07 .21500E 00 .32600E 07 .23100E 00 .32800E 07 .23000E 00 26 3103 3278
.33200E 07 .22300E 00 .33400E 07 .22100E 00 .34000E 07 .24000E 00 26 3103 3279
.35000E 07 .27300E 00 .36000E 07 .30000E 00 .37000E 07 .31700E 00 26 3102 3280
.36000E 07 .33000E 00 .39000E 07 .34500E 00 .40000E 07 .35000E 00 26 3103 3281
.41000E 07 .36300E 00 .42000E 07 .36500E 00 .43000E 07 .40000E 00 26 3103 3282
.44000E 07 .41000E 00 .47000E 07 .41000E 00 .46000E 07 .42500E 00 26 3103 3283
.50000E 07 .45700E 00 .53000E 07 .50000E 00 .54000E 07 .52000E 00 26 3103 3284
.58000E 07 .56000E 00 .59000E 07 .57000E 00 .61000E 07 .58500E 00 26 3103 3285
.63000E 07 .65000E 00 .64000E 07 .61000E 00 .66000E 07 .62000E 00 26 3103 3286
.70000E 07 .63000E 00 .75000E 07 .63500E 00 .85000E 07 .63500E 00 26 3103 3287
.95000E 07 .63000E 00 .10500E 08 .61500E 00 .11500E 08 .56000E 00 26 3103 3288
.12250E 08 .53000E 00 .13000E 08 .45000E 00 .13500E 08 .39500E 00 26 3103 3289
.14000E 08 .33700E 00 .15000E 08 .24800E 00 .16000E 08 .18000E 00 26 3103 3290
.17000E 08 .16800E 00 .18000E 08 .15700E 00 .19000E 08 .15200E 00 26 3103 3291
.20000E 08 .15000E 00 .00000E 00 .00000E 00 .60000E 00 .00000E 00 26 3103 3292
.00000E 00 .00000E 00 26 3 0 3293
2.60000+ 4 5.80000+ 1 0 99 0 0
0.00000E+00-5.9520E+06 0 0 1 9
9 2 0 0 0
26 3104 3294
26 3104 3295

| | | | | | | | | |
|------------|-------------|-----------|------------|------------|------------|----|------|---------|
| .6150E 07 | .6300E 00 | .7500E 07 | .3100E-05 | .6000E 07 | .9300E-03 | 28 | 3104 | 3301 |
| .1300E 06 | .3520E-01 | .1400E 06 | .1770E-01 | .1500E 06 | .1200E-01 | 28 | 3104 | 3301 |
| .1600E 06 | .1990E-01 | .1600E 06 | .2050E-01 | .2000E 06 | .2100E-01 | 26 | 3104 | 3302 |
| .0000E 06 | .0000E 00 | 0 | .99 | 0 | 0 | 26 | 3 | 0 3303 |
| 2.5000+ 4 | 5.3000+ 1 | 0 | 0 | 0 | 0 | 26 | 3107 | 3305 |
| 0.0000+ 0 | 2.6000+ 6 | 0 | 0 | 1 | 31 | 26 | 3107 | 3306 |
| 1.000E 01 | .6000E 00 | .1000E 07 | .4600E-02 | .2000E 07 | .9000E-02 | 26 | 3107 | 3307 |
| .3000E 07 | .3500E-01 | .3500E 07 | .2000E-01 | .4000E 07 | .2000E-01 | 26 | 3107 | 3307 |
| .4000E 07 | .1200E-01 | .5000E 07 | .4000E-01 | .5500E 07 | .5000E-01 | 28 | 3107 | 3309 |
| .6000E 07 | .6500E-01 | .7000E 07 | .8500E-01 | .7500E 07 | .9000E-01 | 28 | 3107 | 3310 |
| .8000E 07 | .1300E 00 | .9000E 07 | .1100E 00 | .1000E 06 | .11700E 06 | 28 | 3107 | 3311 |
| .1100E 06 | .1200E 00 | .1200E 06 | .1200E 00 | .1250E 06 | .11950E 06 | 28 | 3107 | 3312 |
| .1300E 06 | .11900E 00 | .1350E 06 | .11600E 00 | .1400E 06 | .11800E 06 | 28 | 3107 | 3313 |
| .1450E 06 | .1000E 00 | .1500E 06 | .11100E 00 | .16500E 06 | .8000E-01 | 28 | 3107 | 3315 |
| .1700E 06 | .1700E-01 | .1750E 06 | .6600E-01 | .1600E 06 | .6100E-01 | 28 | 3107 | 3316 |
| .1850E 06 | .5300E-01 | .1900E 06 | .5000E-01 | .1950E 06 | .4500E-01 | 28 | 3107 | 3316 |
| .2000E 06 | .4000E-01 | .0000E 00 | .0000E 00 | .0000E 00 | .0000E 00 | 28 | 3 | 0 3317 |
| .0000E 00 | .0000E 00 | .0000E 00 | .0000E 00 | .0000E 00 | .0000E 00 | 26 | 0 | 0 3319 |
| .0000E 00 | .0000E 00 | .0000E 00 | .0000E 00 | .0000E 00 | .0000E 00 | 28 | 0 | 0 3320 |
| .0000E 00 | .0000E 00 | .0000E 00 | .0000E 00 | .0000E 00 | .0000E 00 | 28 | 0 | 0 3321 |
| ***** | ***** | ***** | ***** | ***** | ***** | 26 | 0 | 0 3322 |
| 2.8000+ 4 | 6.0000+ 1 | 0 | .99 | 0 | 0 | 26 | 3 | 16 3323 |
| 0.000E+00 | -1.130E+07 | 0 | 0 | 1 | 7 | 26 | 3 | 16 3324 |
| 0.0000+ 7 | 0 | 0 | 0 | 0 | 0 | 28 | 3 | 16 3325 |
| .1150E 06 | .0000E 00 | .1200E 06 | .5600E-01 | .1300E 06 | .1750E 00 | 28 | 3 | 16 3326 |
| .1400E 06 | .2950E 00 | .1500E 06 | .3650E 00 | .1600E 06 | .4450E 00 | 28 | 3 | 16 3327 |
| .2000E 06 | .5900E 00 | .0000E 00 | .0000E 00 | .0000E 00 | .0000E 00 | 26 | 3 | 16 3327 |
| .0000E 00 | .0000E 00 | 0 | 0 | 0 | 0 | 28 | 3 | 0 3329 |
| 2.0000+ 4 | 6.0000+ 1 | 0 | .99 | 0 | 0 | 28 | 3 | 28 3330 |
| 0.000E+00 | -9.532E+06 | 0 | 0 | 1 | 6 | 28 | 3 | 28 3331 |
| 0.0000+ 6 | 0 | 0 | 0 | 0 | 0 | 28 | 3 | 28 3332 |
| .7502E 07 | .0000E 00 | .1200E 06 | .8390E-01 | .1450E 06 | .6500E-01 | 28 | 3 | 28 3333 |
| .1600E 06 | .8000E-01 | .1800E 06 | .9300E-01 | .2000E 06 | .1000E 00 | 28 | 3 | 28 3334 |
| .0000E 00 | .0000E 00 | 0 | 0 | 0 | 0 | 28 | 3 | 28 3335 |
| 2.0000+ 4 | 6.0000+ 1 | 0 | .99 | 0 | 0 | 28 | 3103 | 3336 |
| 0.0000+ 0 | -2.6400-06 | 0 | 0 | 1 | 32 | 28 | 3103 | 3337 |
| 0.0000+ 32 | 0 | 0 | 0 | 0 | 0 | 28 | 3103 | 3336 |
| .2170E 07 | .0000E 00 | .2100E 07 | .6000E-03 | .2200E 07 | .1400E-02 | 26 | 3103 | 3339 |
| .2300E 07 | .2200E-02 | .2500E 07 | .4000E-02 | .3000E 07 | .6000E-02 | 26 | 3103 | 3340 |
| .3500E 07 | .1100E-01 | .4000E 07 | .1600E-01 | .4500E 07 | .1000E-01 | 28 | 3103 | 3341 |
| .5000E 07 | .2300E-01 | .5500E 07 | .2760E-01 | .6000E 07 | .3000E-01 | 28 | 3103 | 3342 |
| .6500E 07 | .4700E-01 | .7000E 07 | .6400E-01 | .7500E 07 | .7000E-01 | 26 | 3103 | 3343 |
| .8000E 07 | .9500E-01 | .8500E 07 | .11900E 00 | .9000E 07 | .1400E 00 | 26 | 3103 | 3344 |
| .9500E 07 | .1500E 00 | .1000E 06 | .1660E 00 | .10500E 06 | .16100E 00 | 28 | 3103 | 3345 |
| .1100E 06 | .1600E 00 | .1150E 06 | .1580E 00 | .12000E 06 | .15300E 00 | 28 | 3103 | 3346 |
| .1300E 06 | .1420E 00 | .1460E 06 | .1260E 00 | .15000E 06 | .11900E 00 | 28 | 3103 | 3347 |
| .1600E 06 | .9200E-01 | .1700E 06 | .8100E-01 | .18000E 06 | .71000E-01 | 28 | 3103 | 3348 |
| .1900E 06 | .6400E-01 | .2000E 06 | .5600E-01 | .0000E 00 | .0000E 00 | 28 | 3 | 0 3349 |
| .0000E 00 | .0000E 00 | 0 | 0 | 0 | 0 | 28 | 3 | 0 3350 |
| 2.0000+ 4 | 6.0000+ 1 | 0 | .99 | 0 | 0 | 28 | 3104 | 3351 |
| 0.000E+00 | -7.3070E+06 | 0 | 0 | 1 | 9 | 28 | 3104 | 3352 |
| 0.0000+ 9 | 0 | 0 | 0 | 0 | 0 | 28 | 3104 | 3353 |
| .7430E 07 | .0000E 00 | .7500E 07 | .5200E-03 | .8000E 07 | .15700E-02 | 28 | 3104 | 3354 |
| .1300E 06 | .3500E-01 | .1400E 06 | .3660E-01 | .1500E 06 | .32400E-01 | 28 | 3104 | 3355 |
| .1600E 06 | .3340E-01 | .1800E 06 | .3460E-01 | .26000E 06 | .35400E-01 | 26 | 3 | 0 3357 |
| .0000E 00 | .0000E 00 | 0 | 0 | 0 | 0 | 26 | 3 | 0 3357 |
| 2.0000+ 4 | 6.0000+ 1 | 0 | .99 | 0 | 0 | 26 | 3107 | 3356 |
| 0.0000+ 0 | 1.35200+ 6 | 0 | 0 | 1 | 9 | 26 | 3107 | 3359 |

Fig. 1

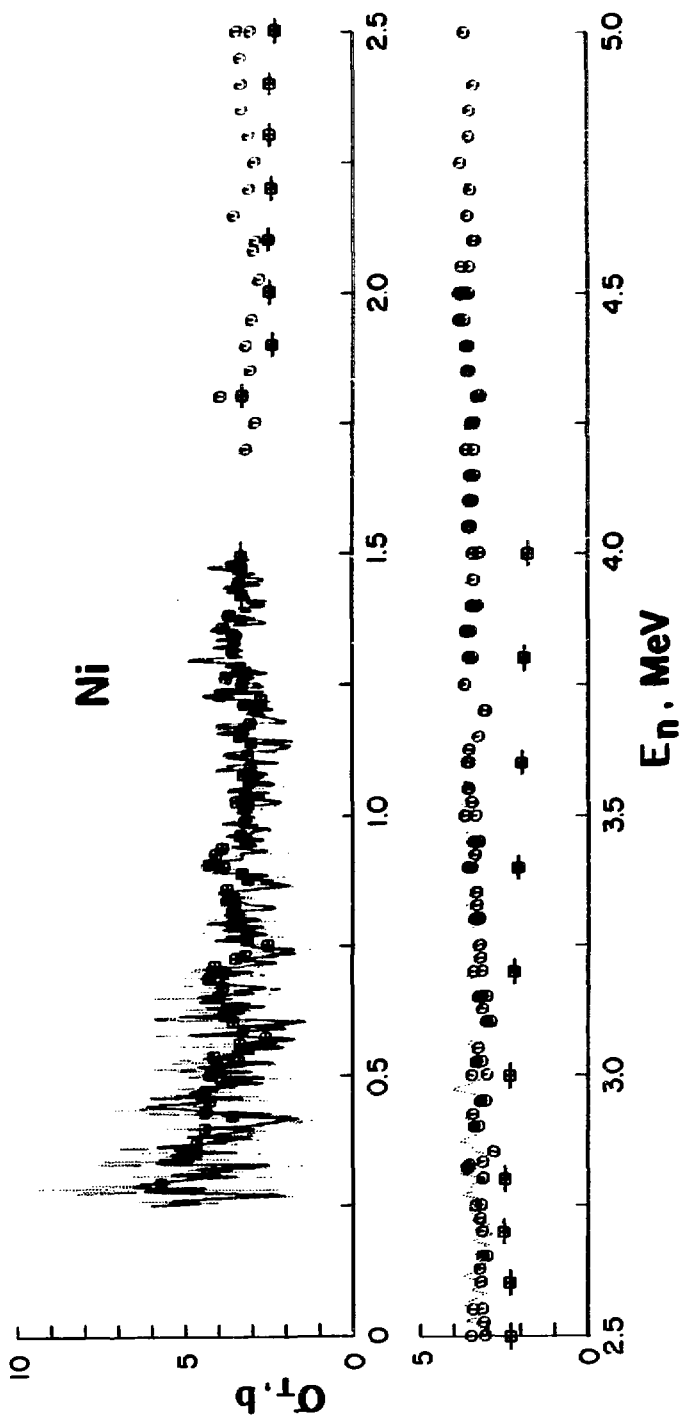


Fig. 2

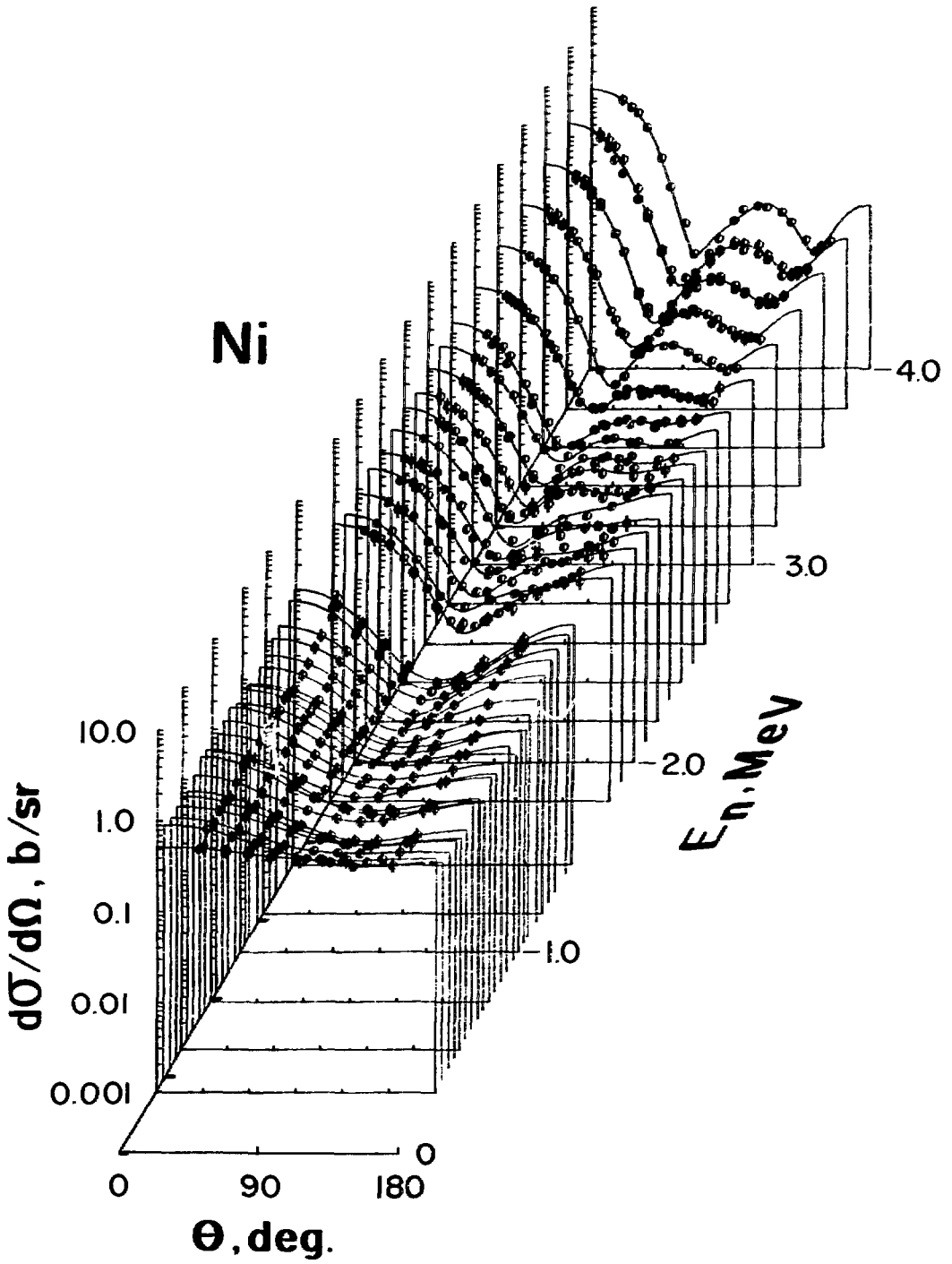


Fig. 3

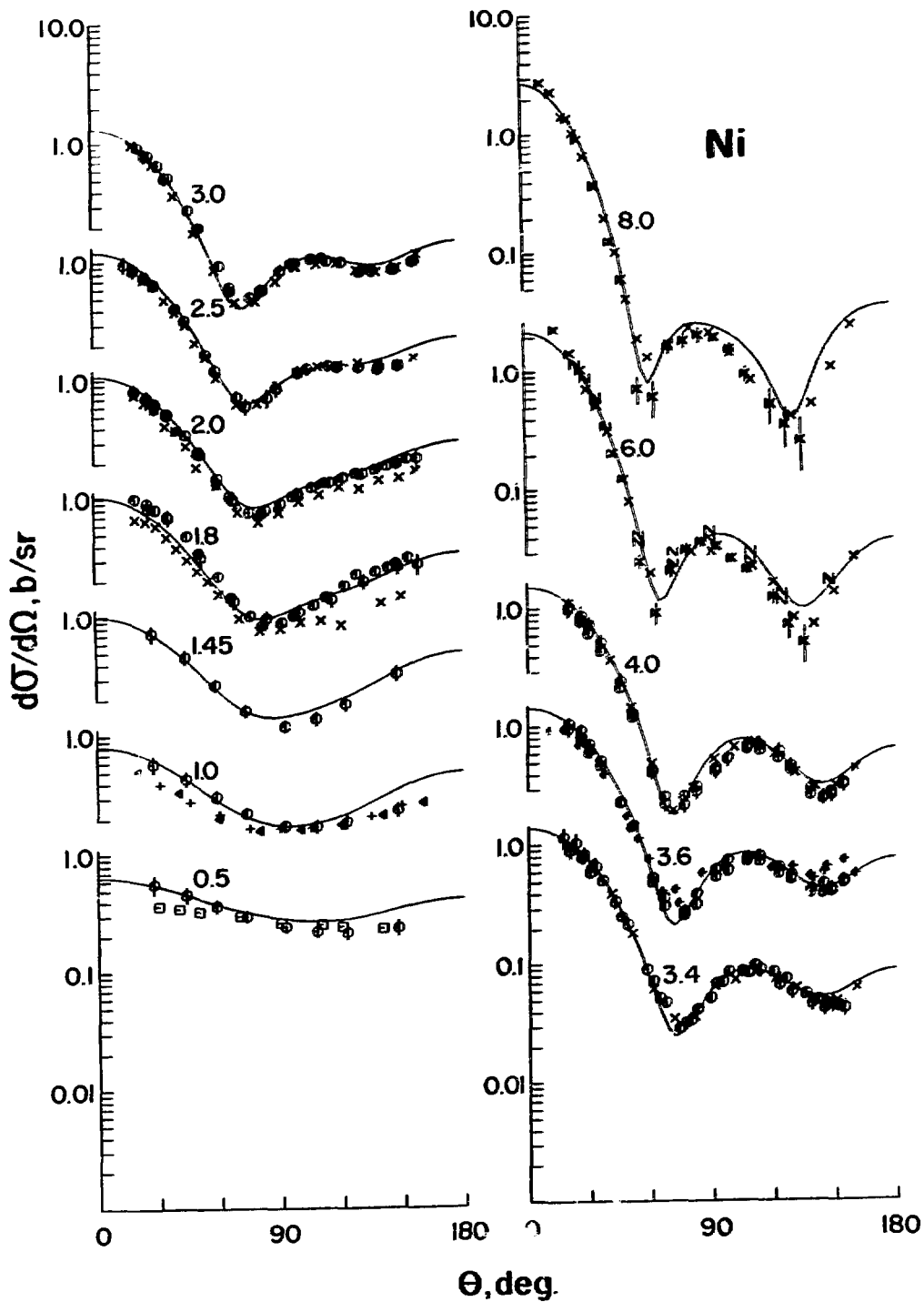


Fig. 4

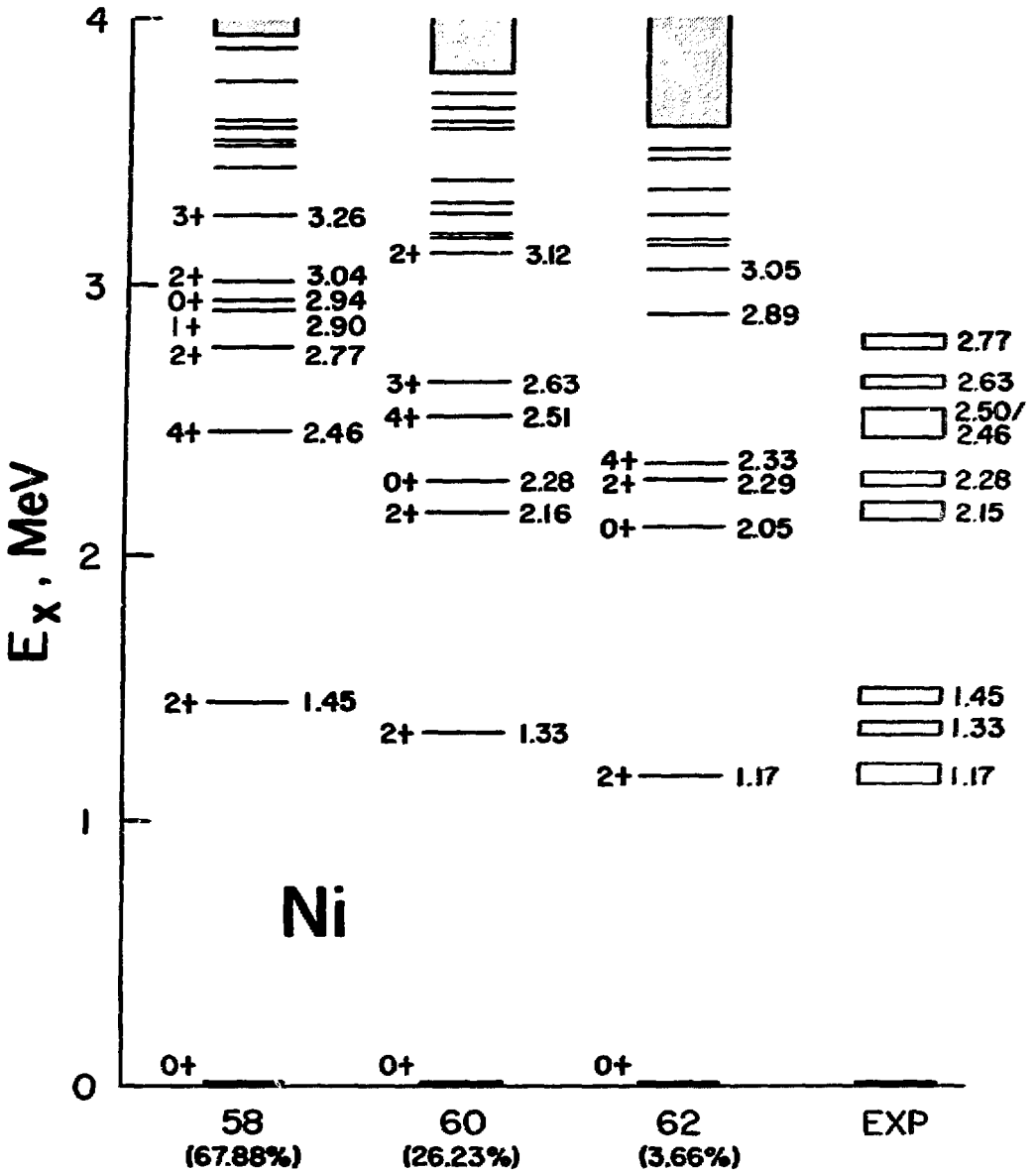


Fig. 5

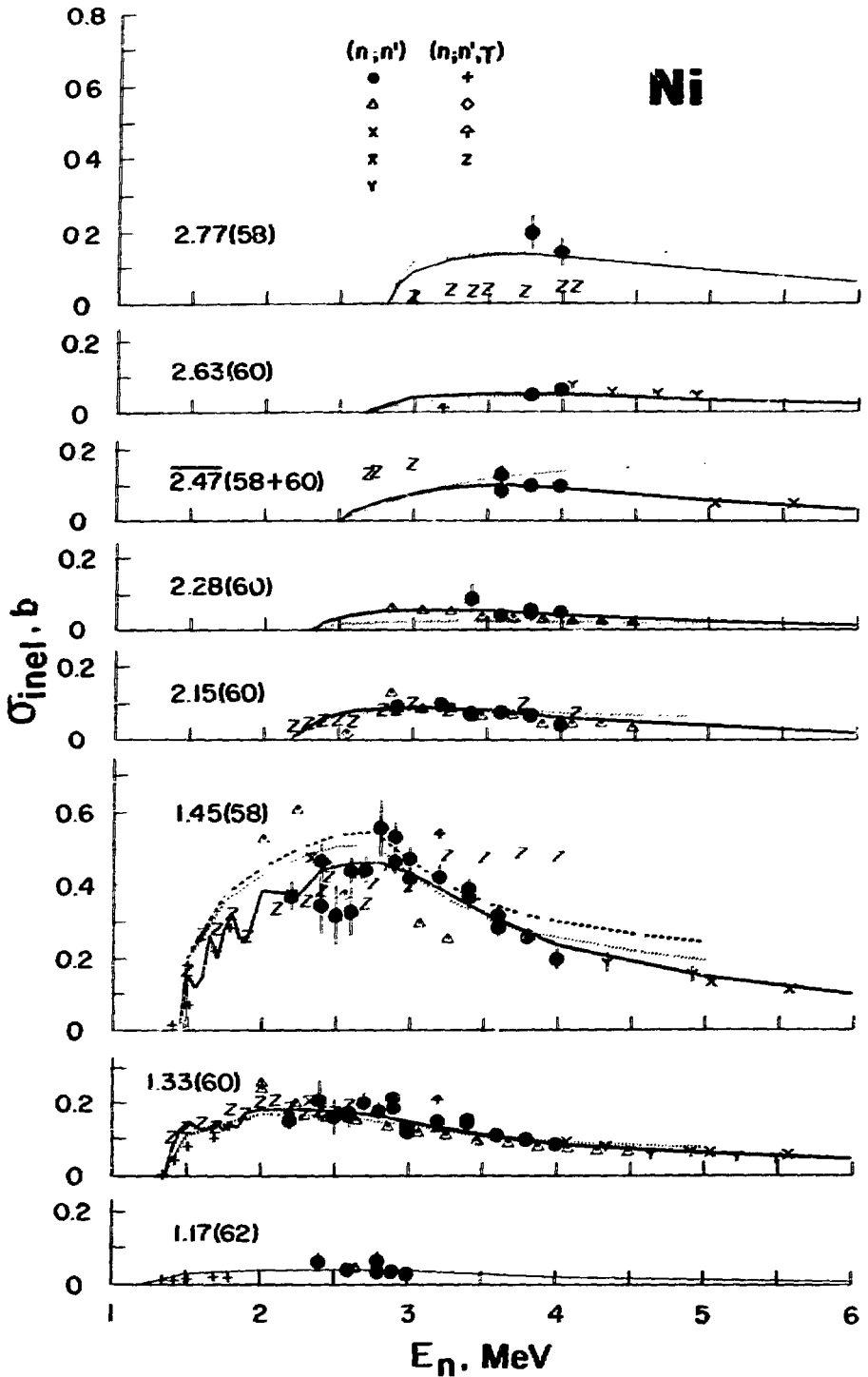


Fig. 6

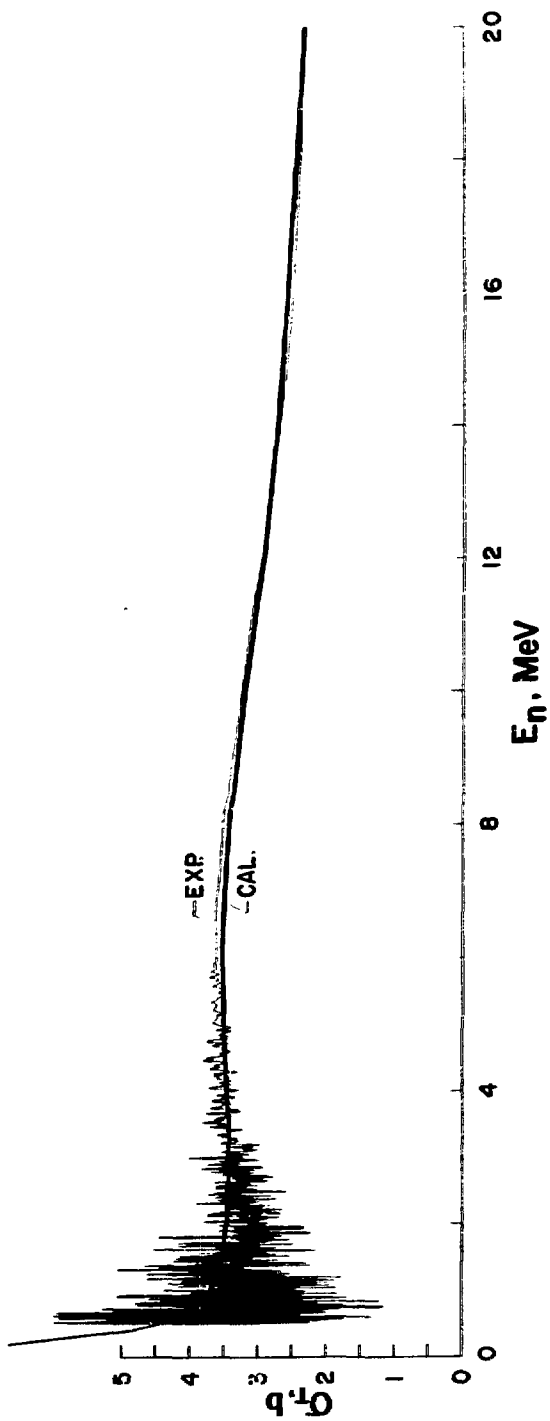
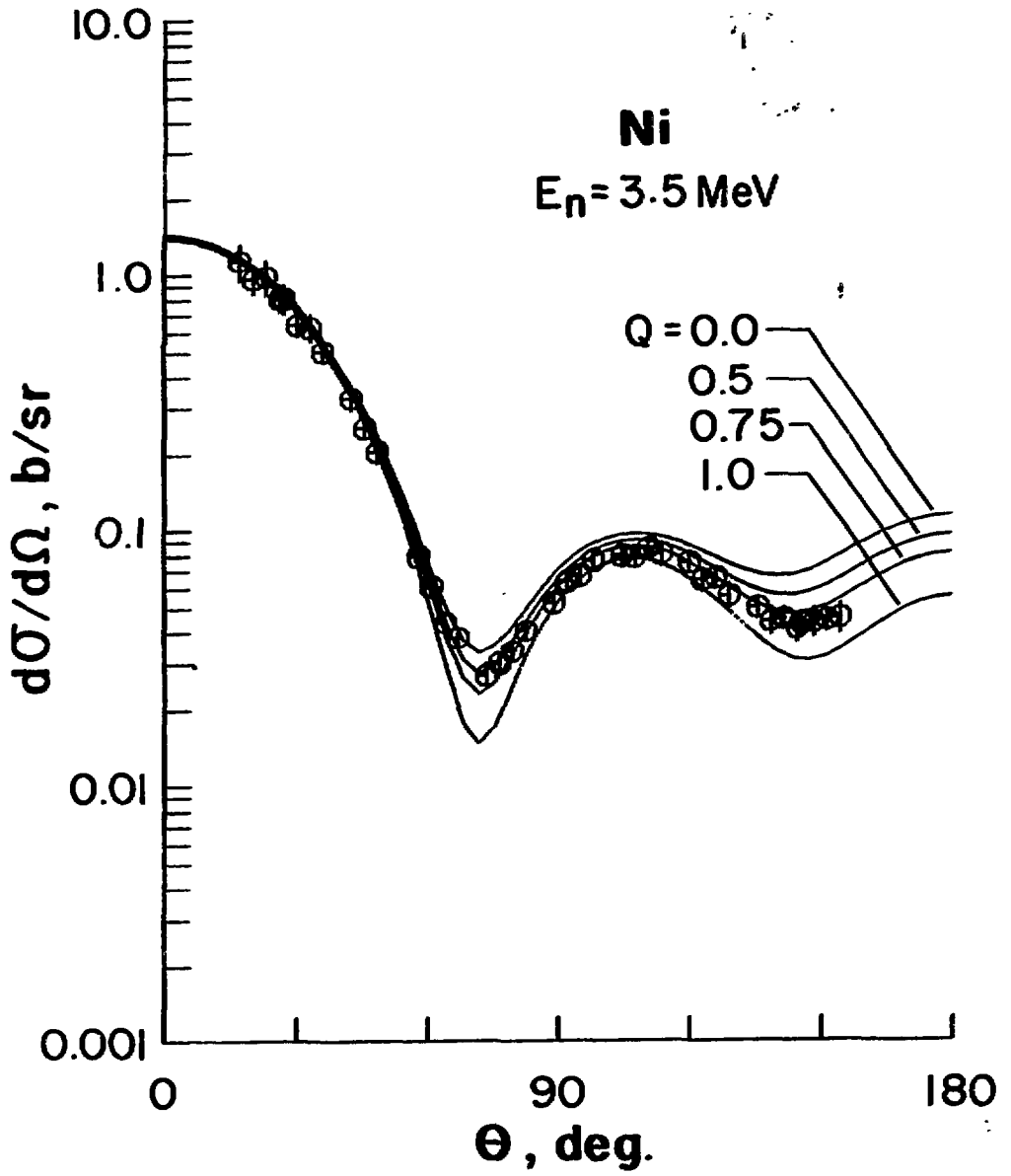


Fig. 7



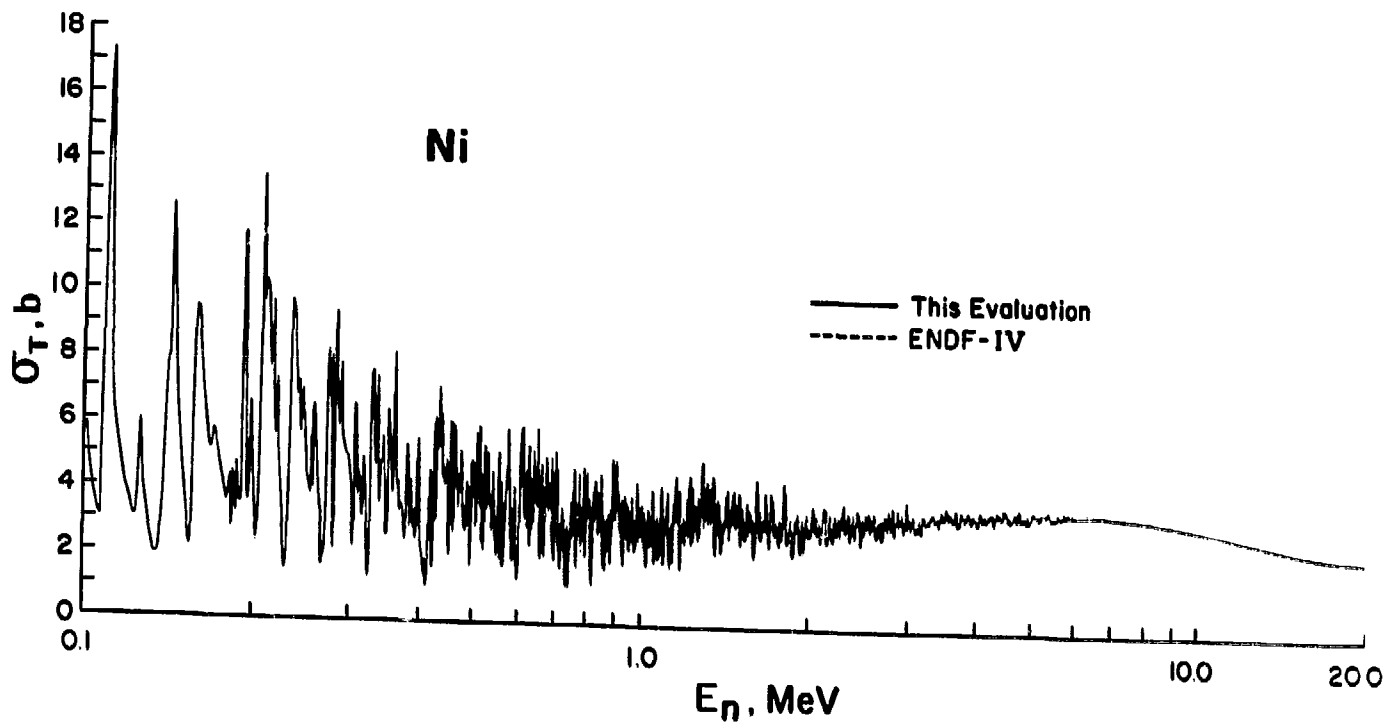


Fig. 8

Fig. 9

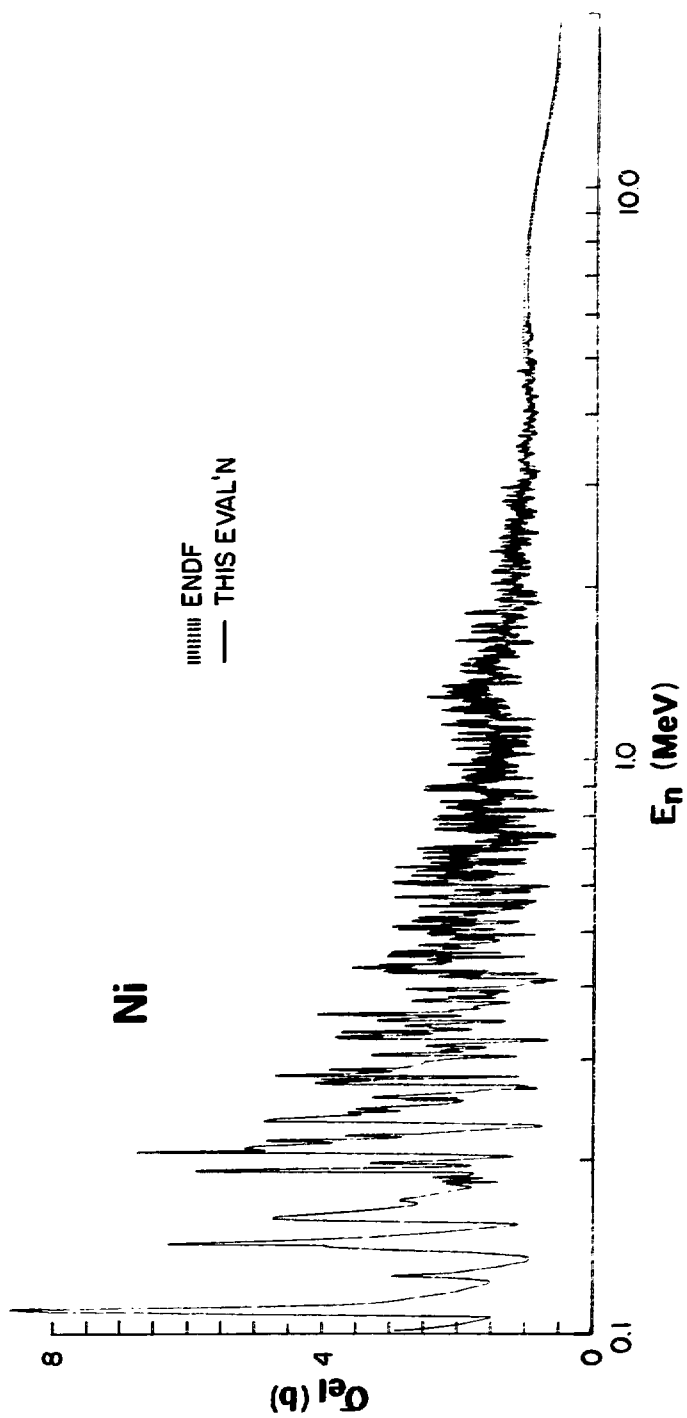


Fig. 10

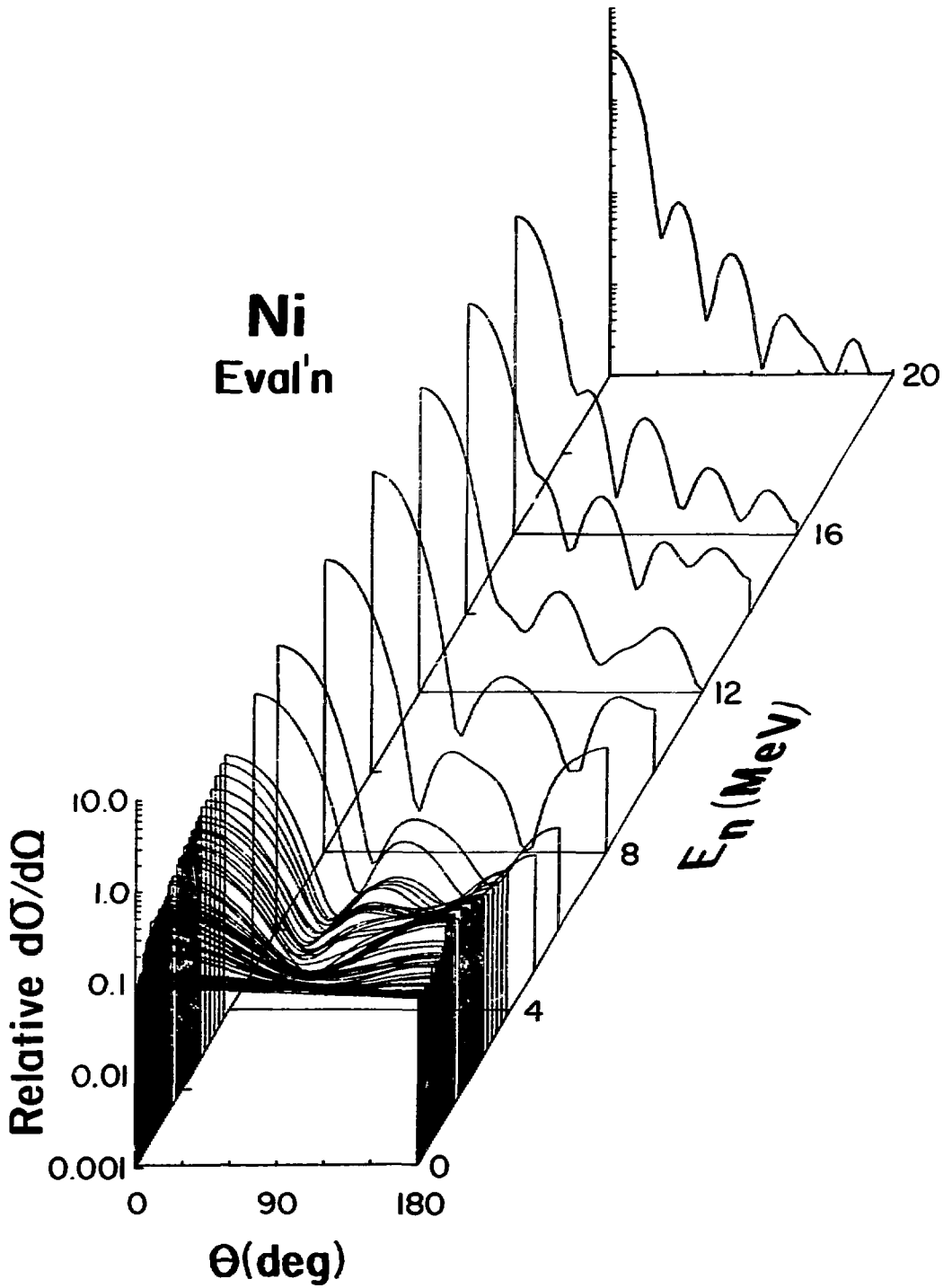
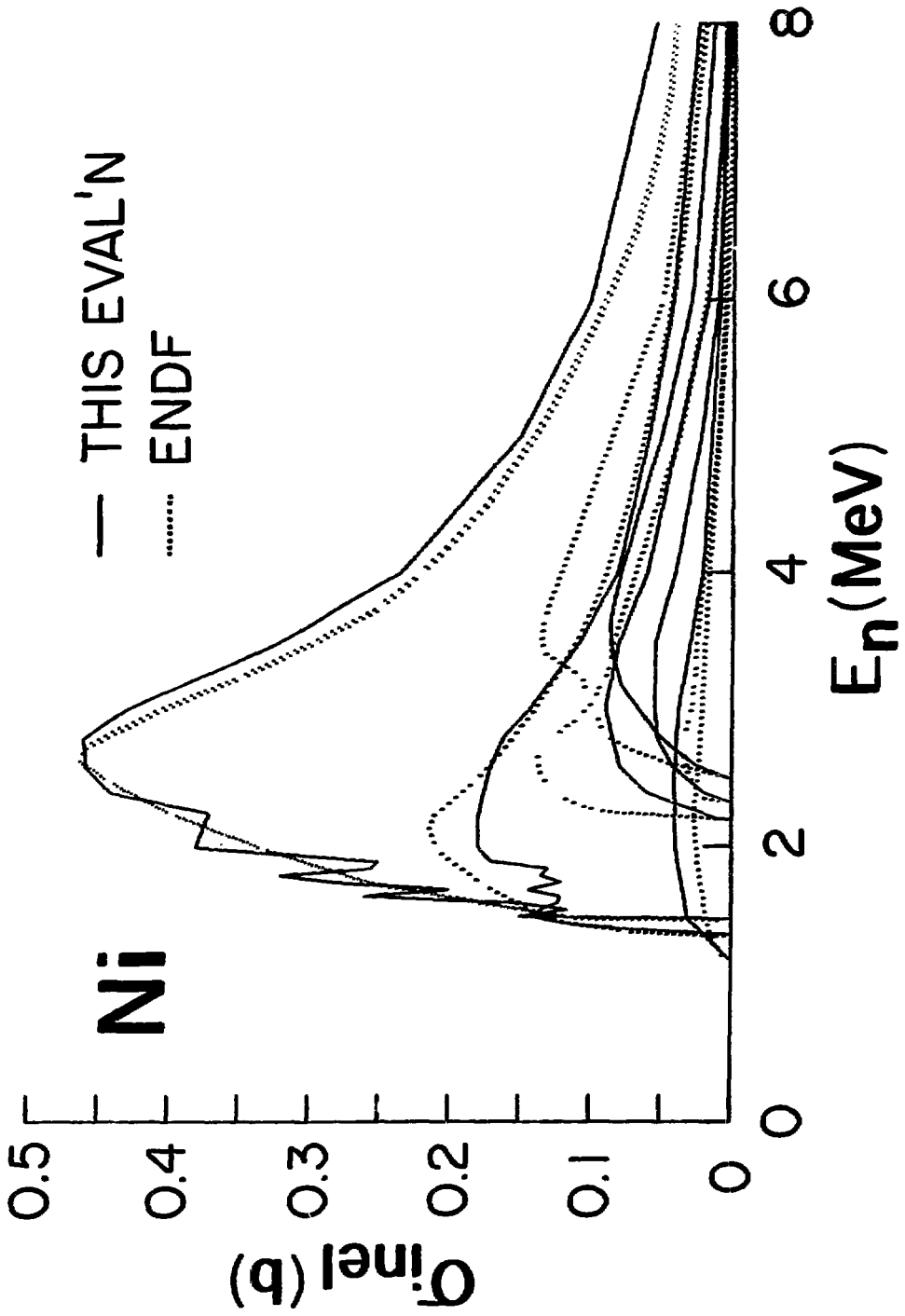


Fig. 11



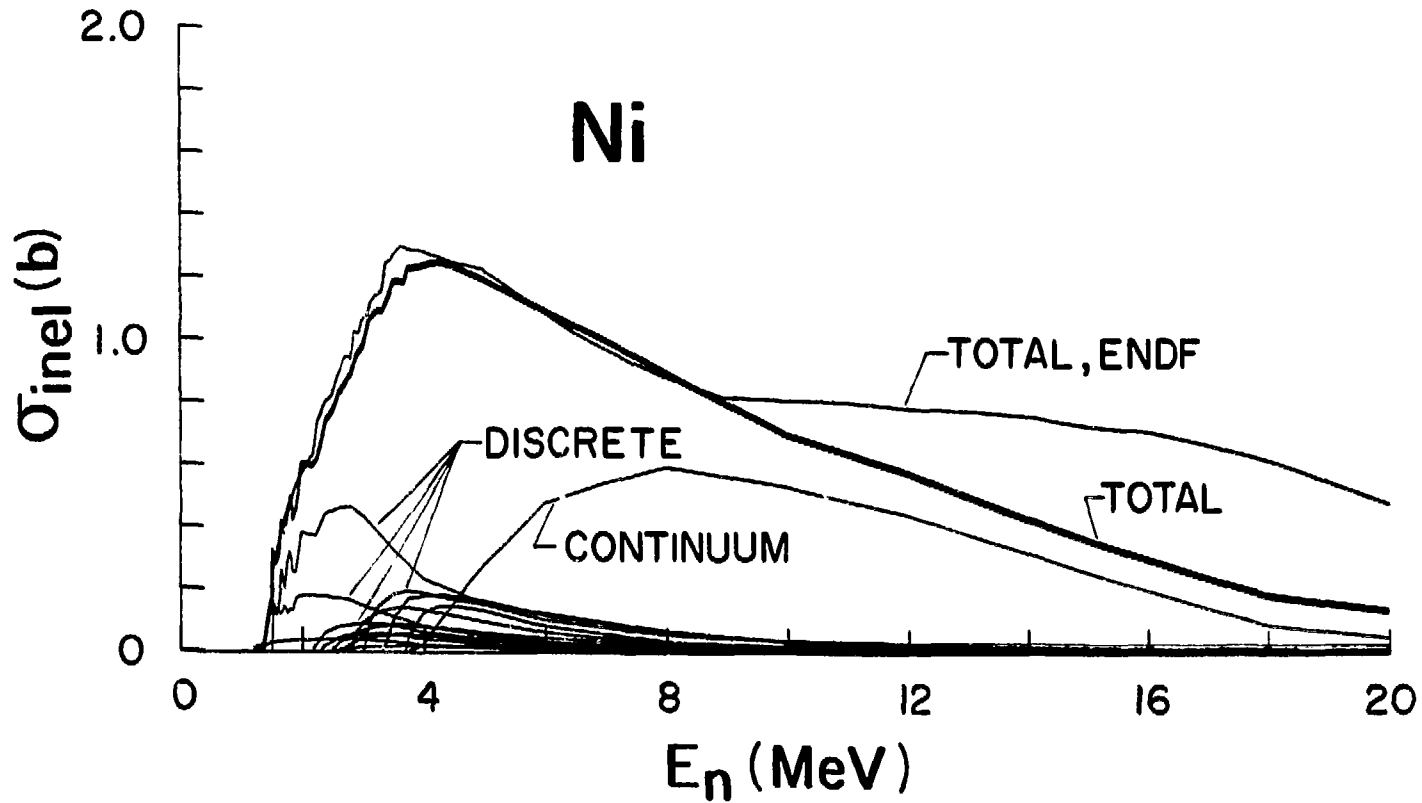


FIG. 12

Fig. 13

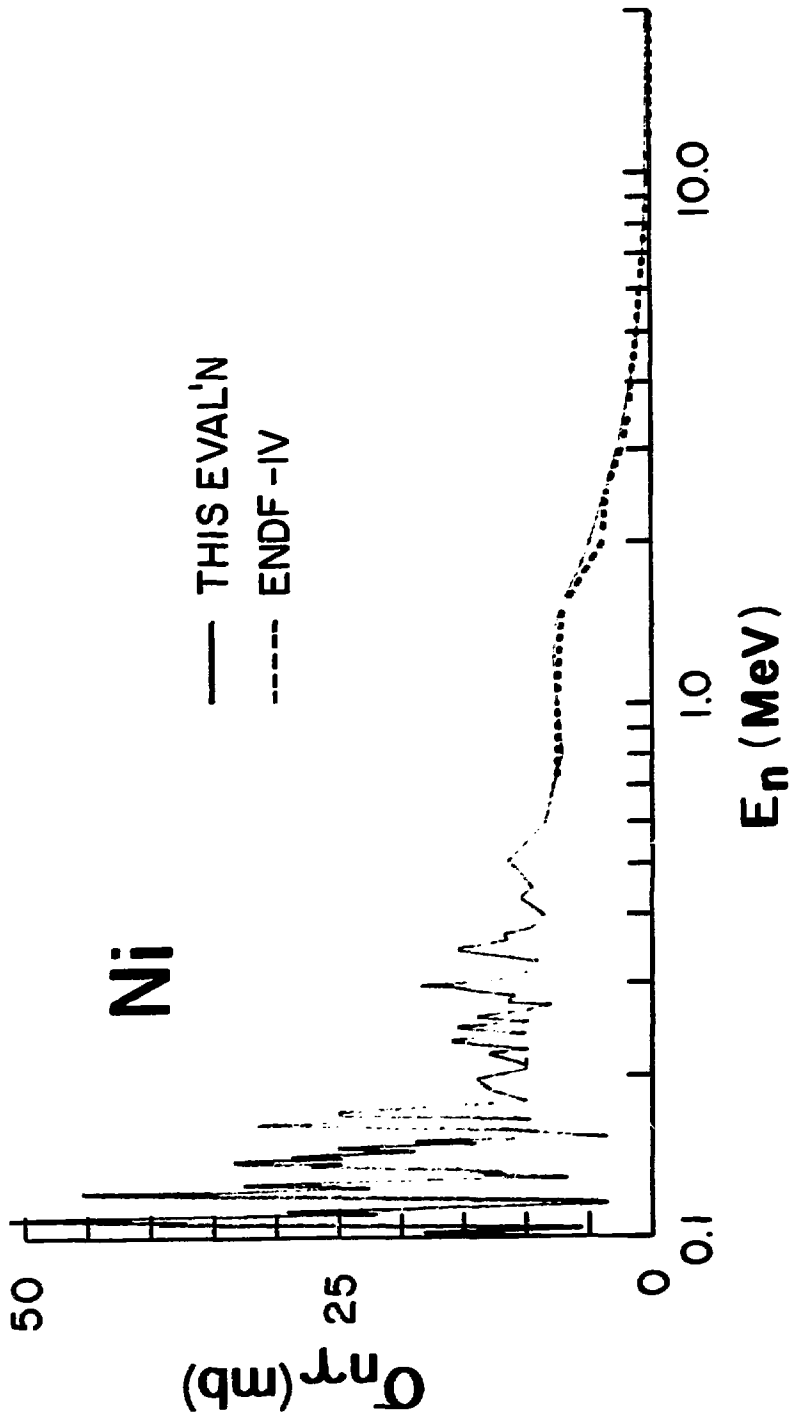


Fig. 14

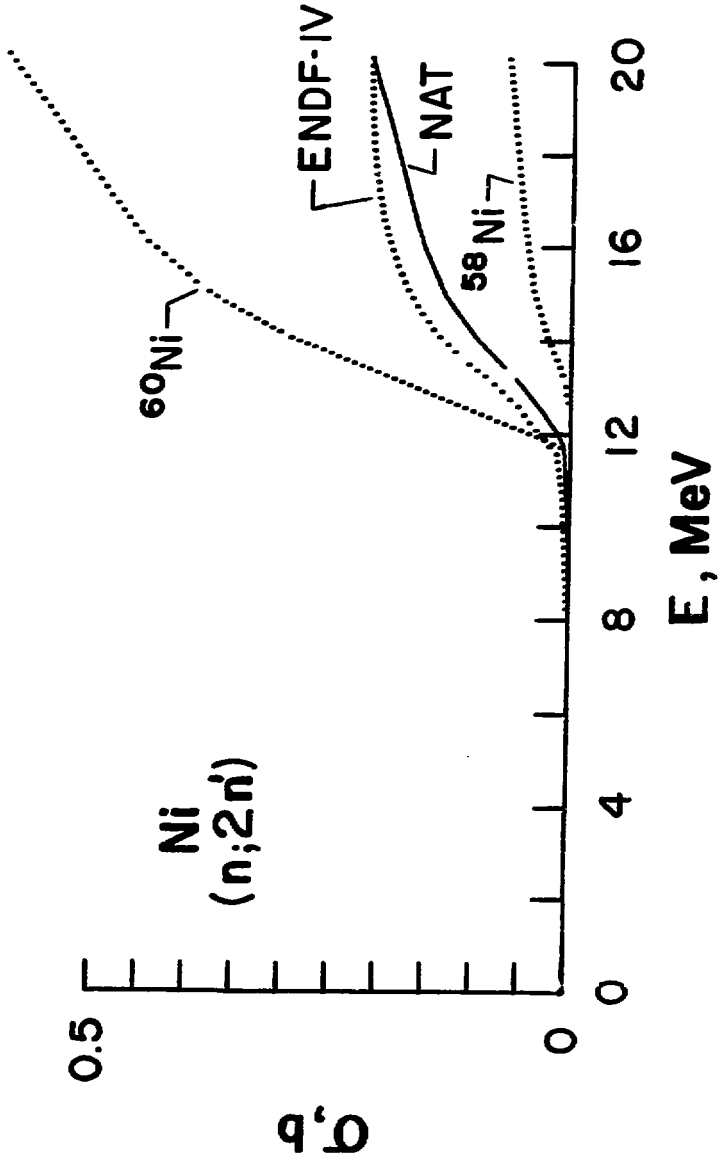


Fig. 15

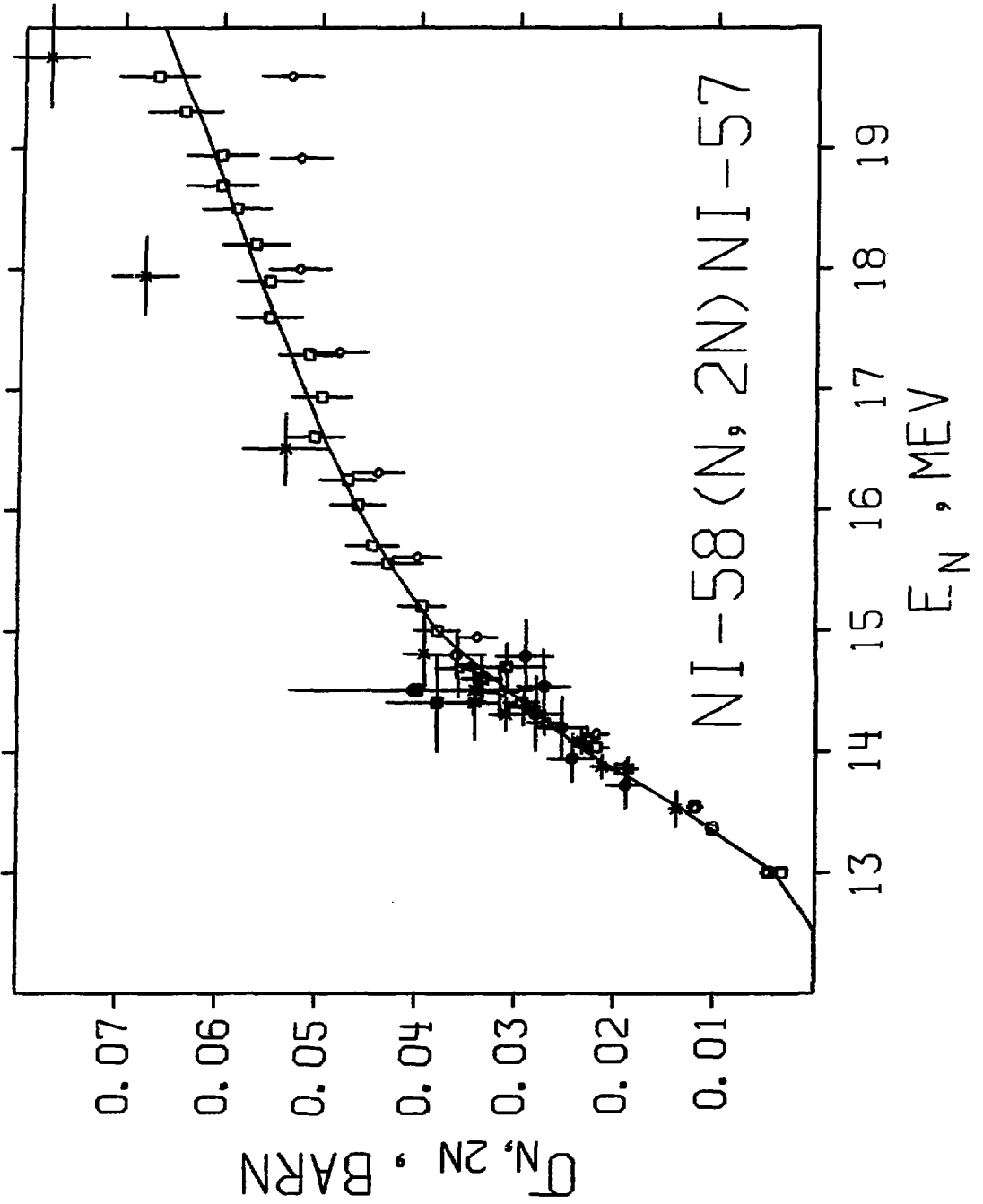


Fig. 16

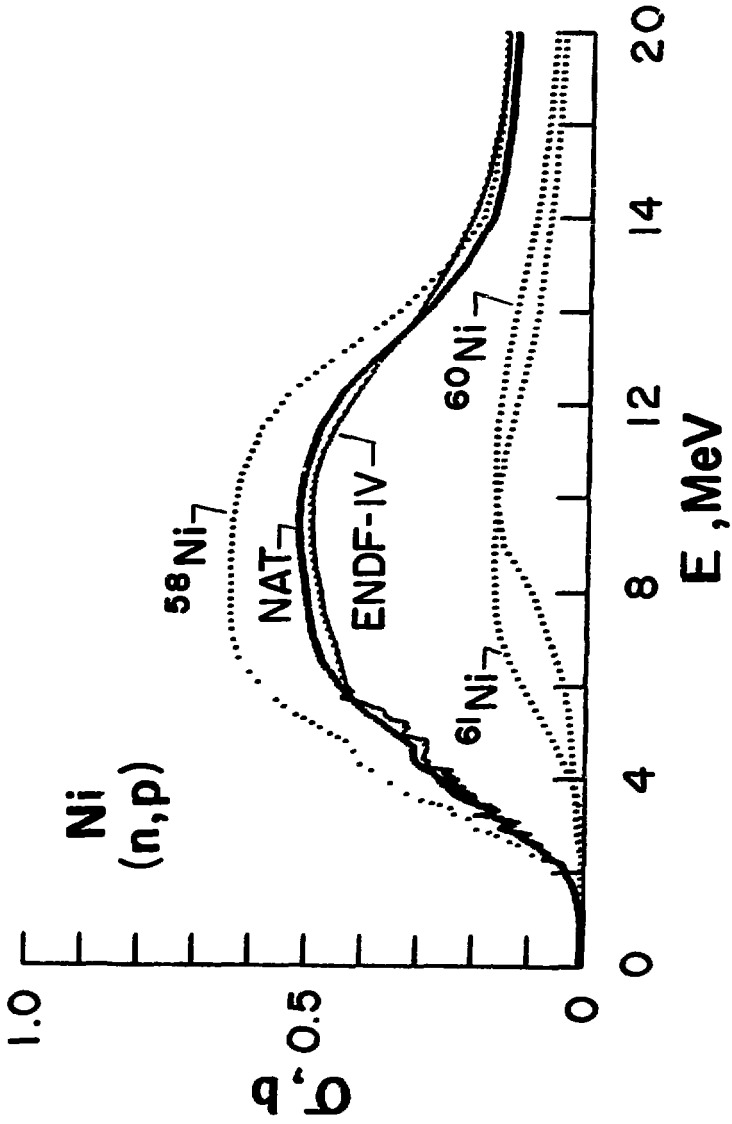


Fig. 17

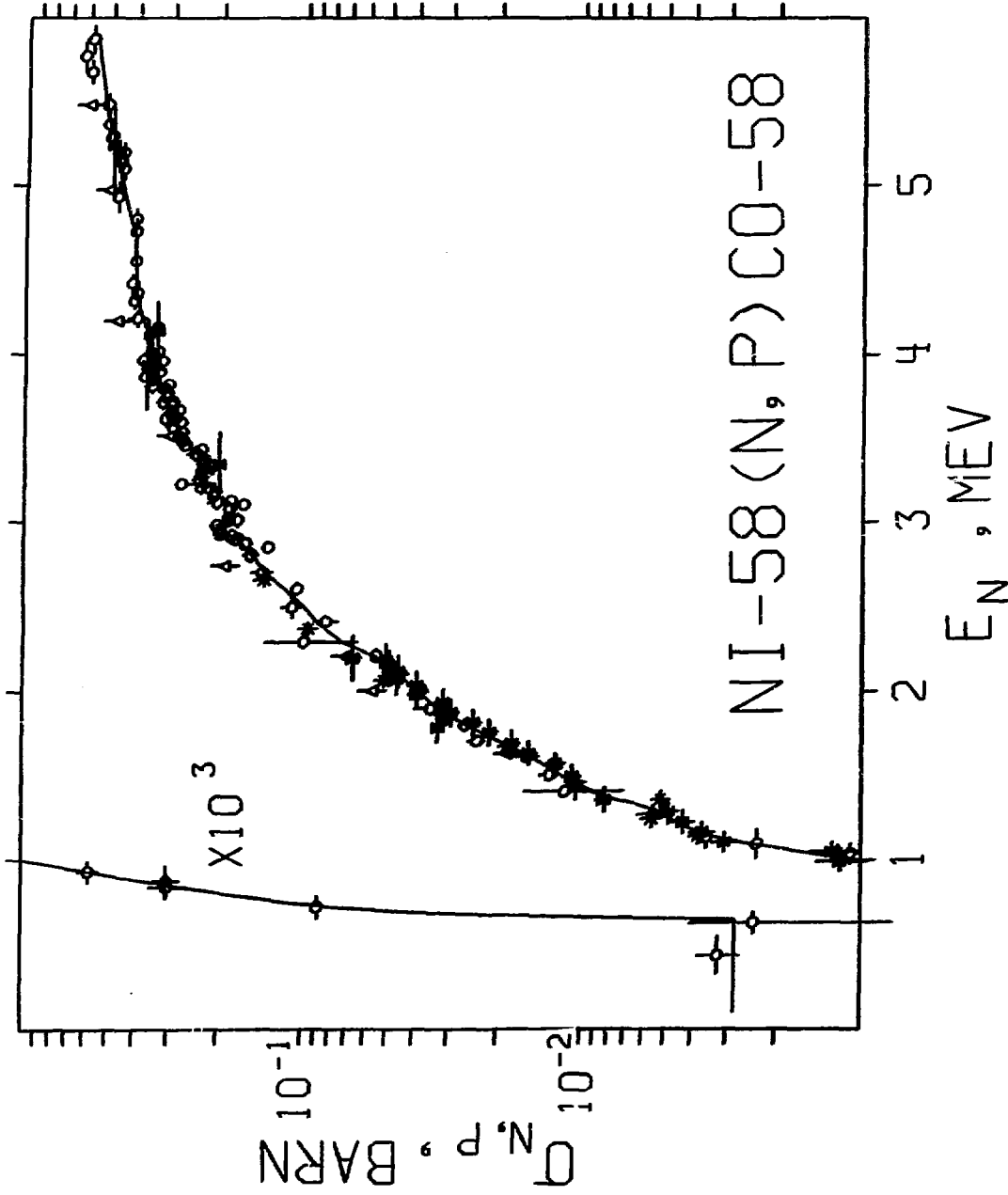


Fig. 18

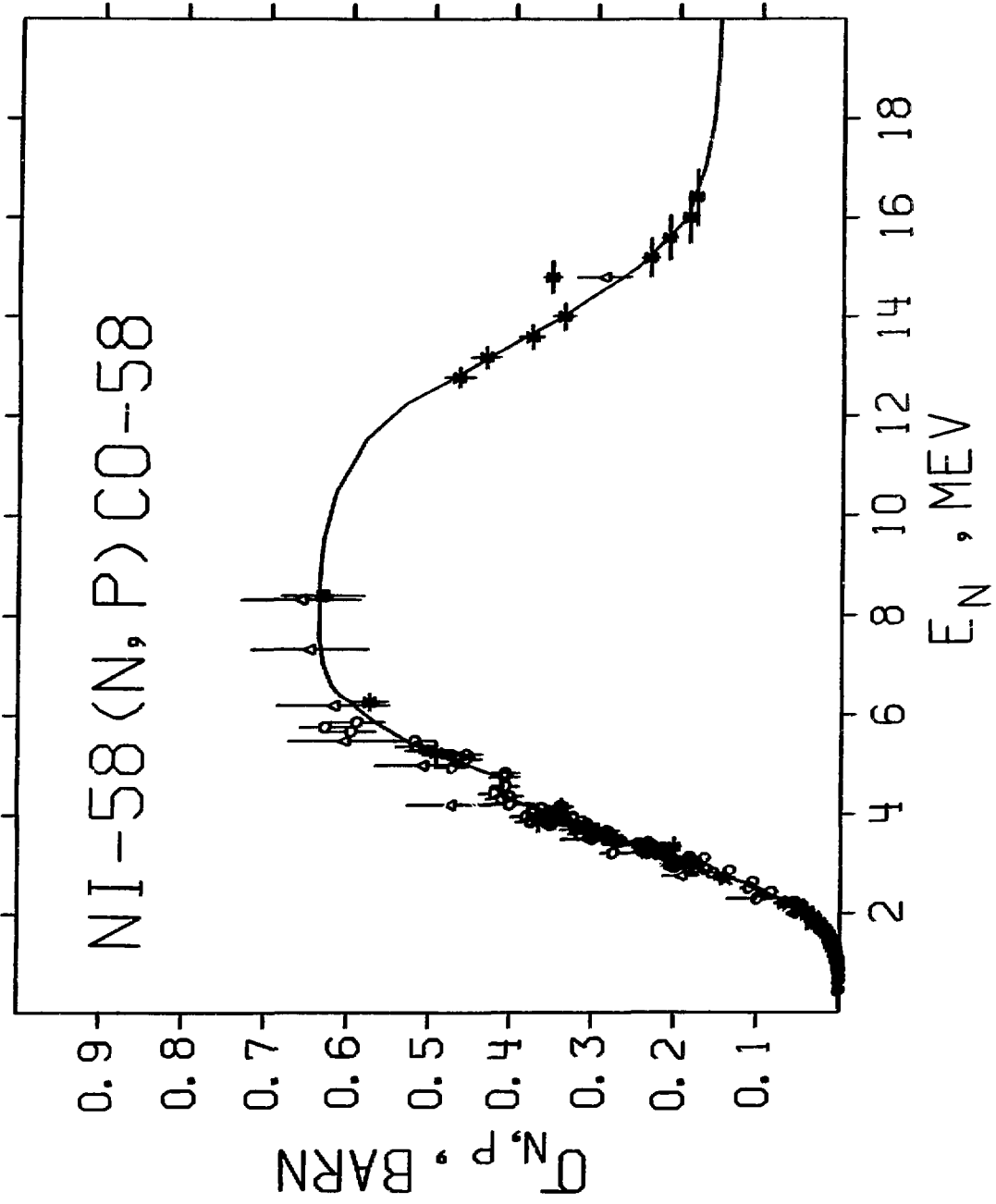


Fig. 19

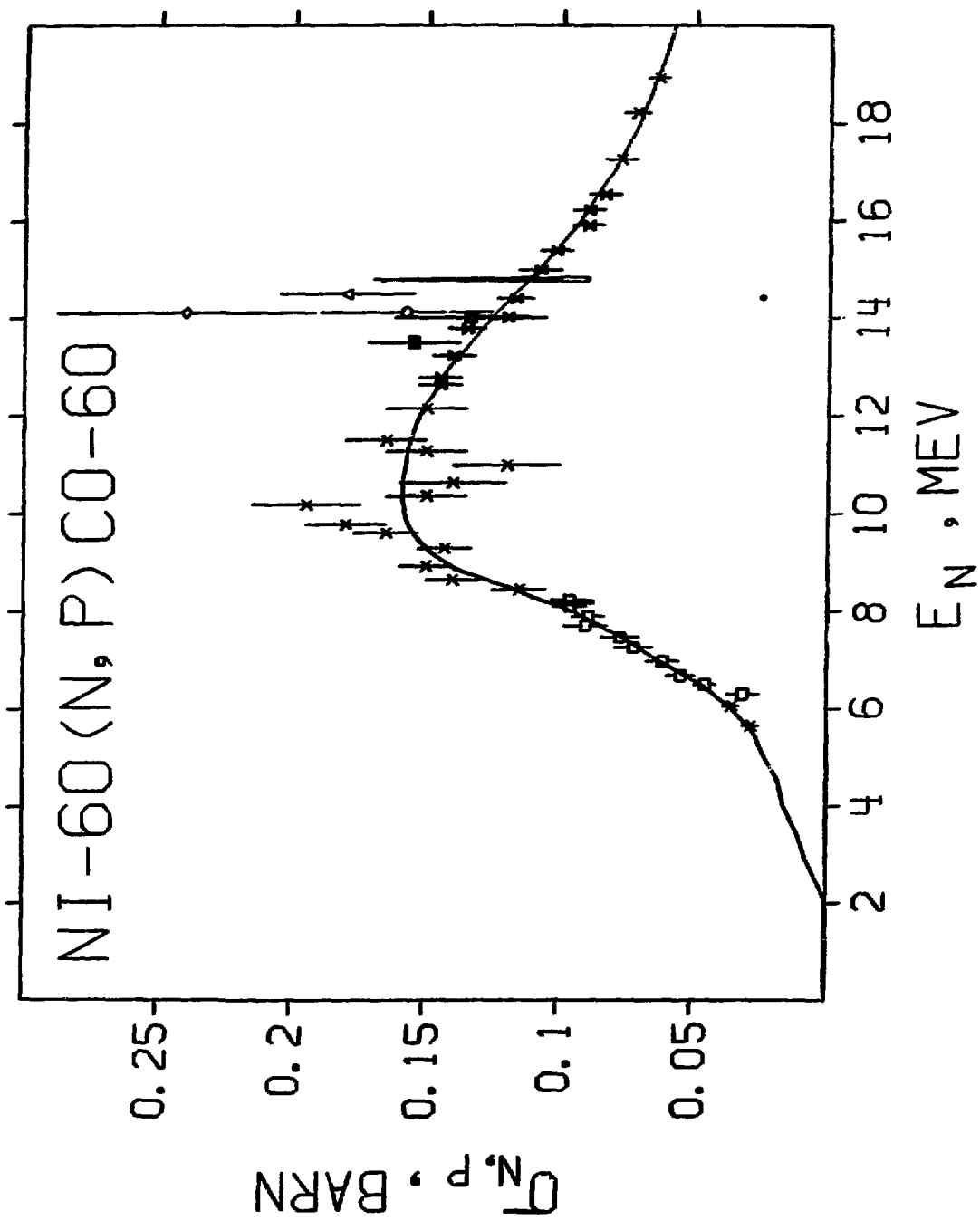


Fig. 20

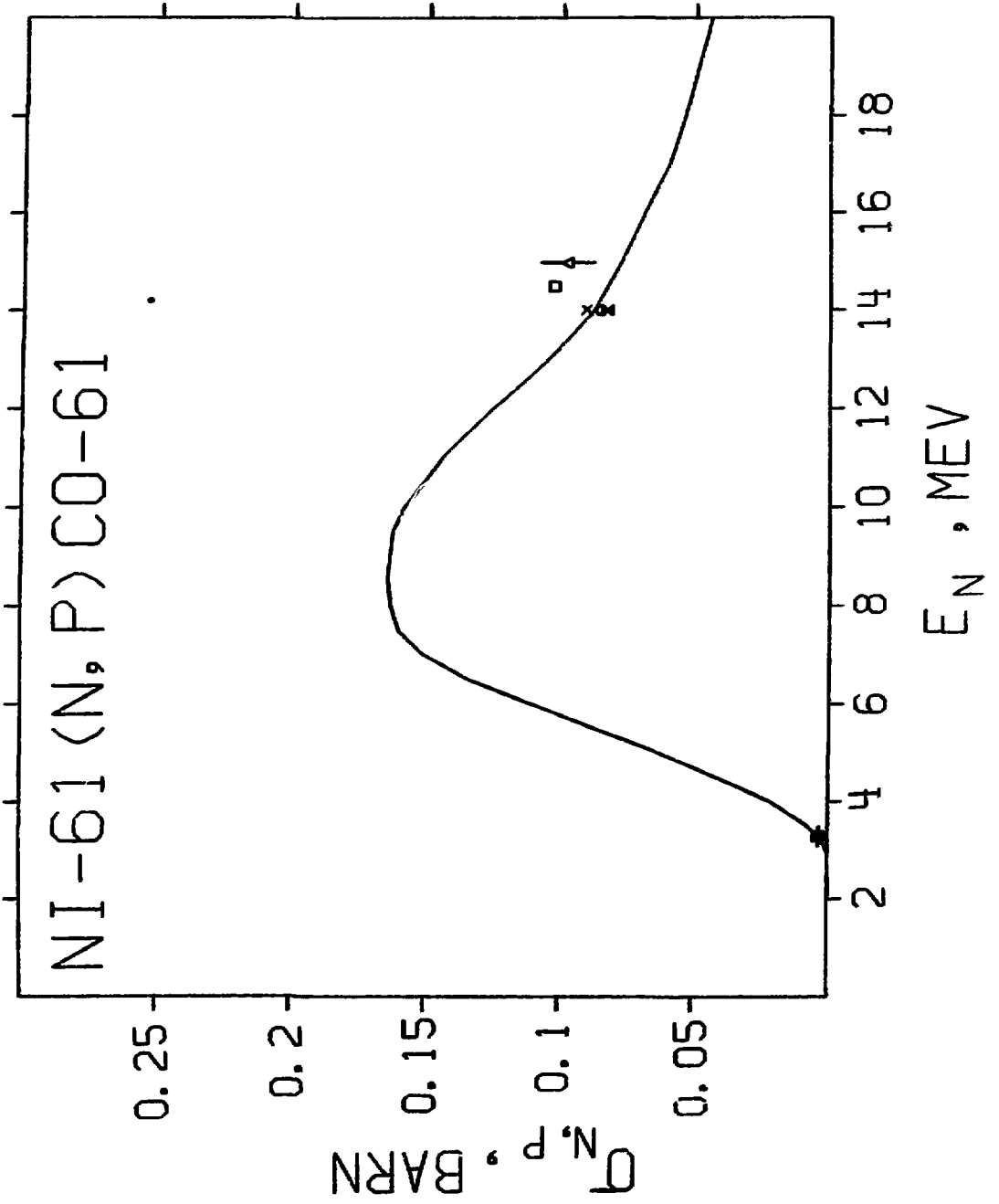
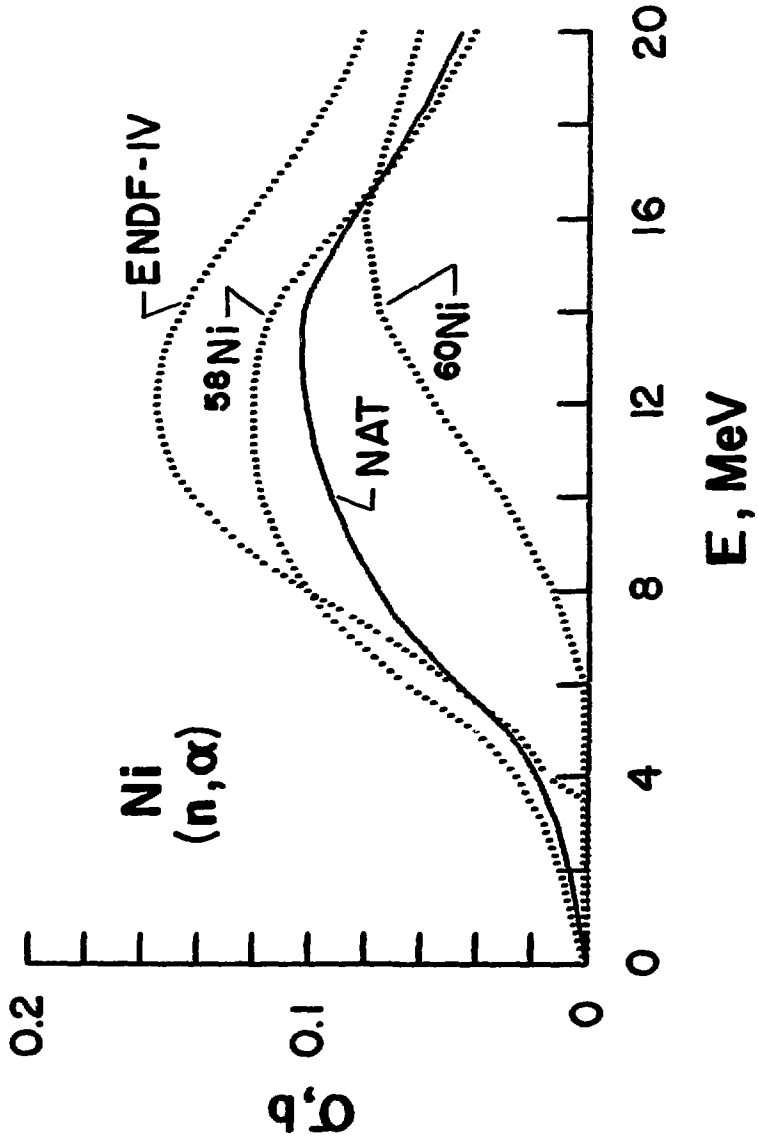


Fig. 21



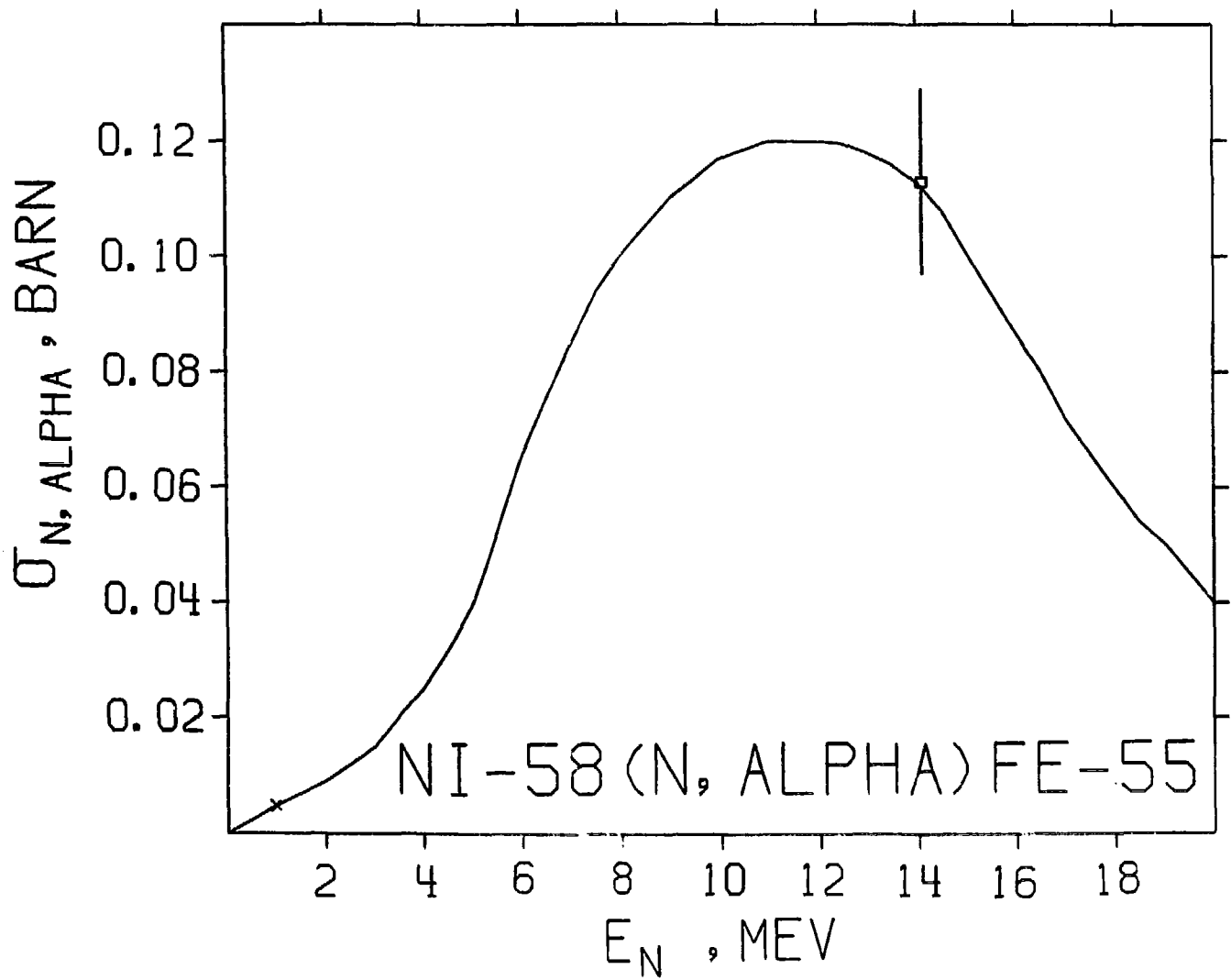


FIG. 22

Fig. 23

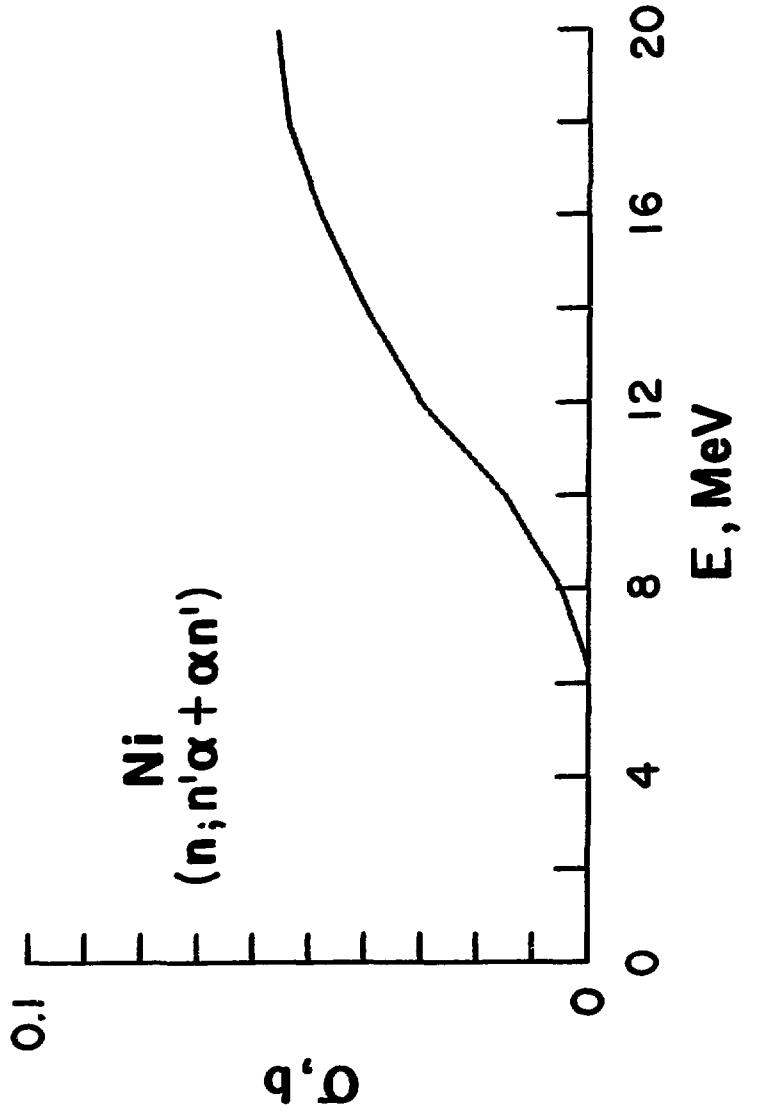


Fig. 24

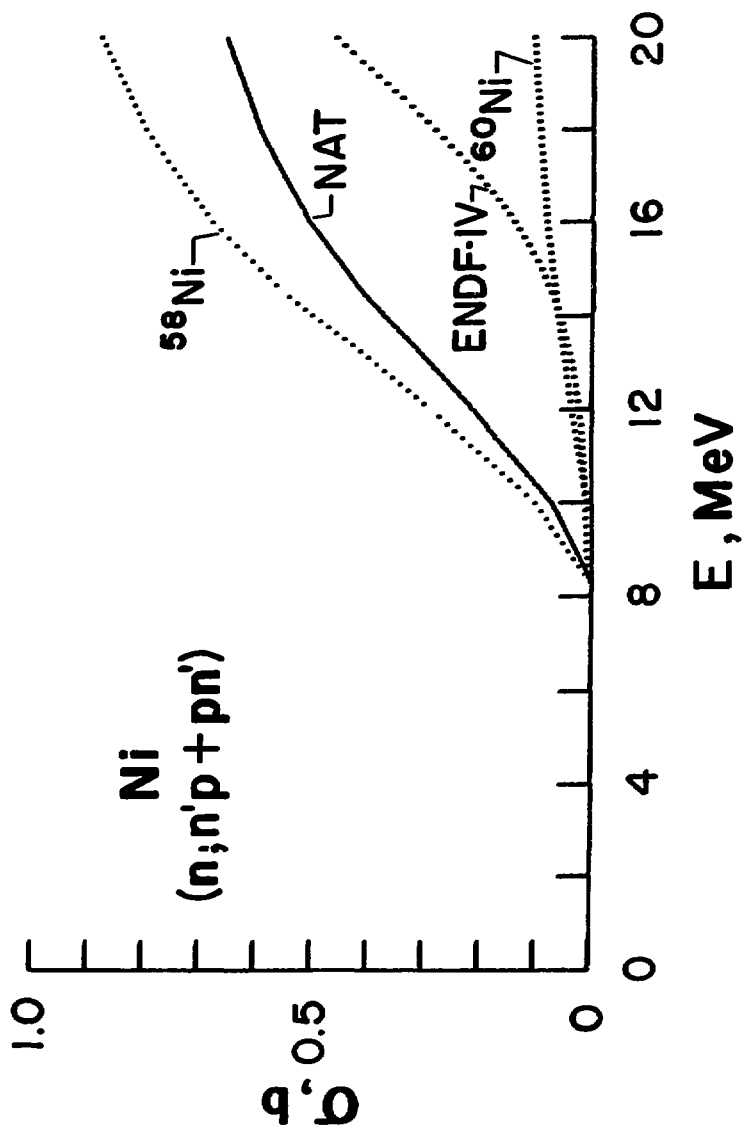


Fig. 25

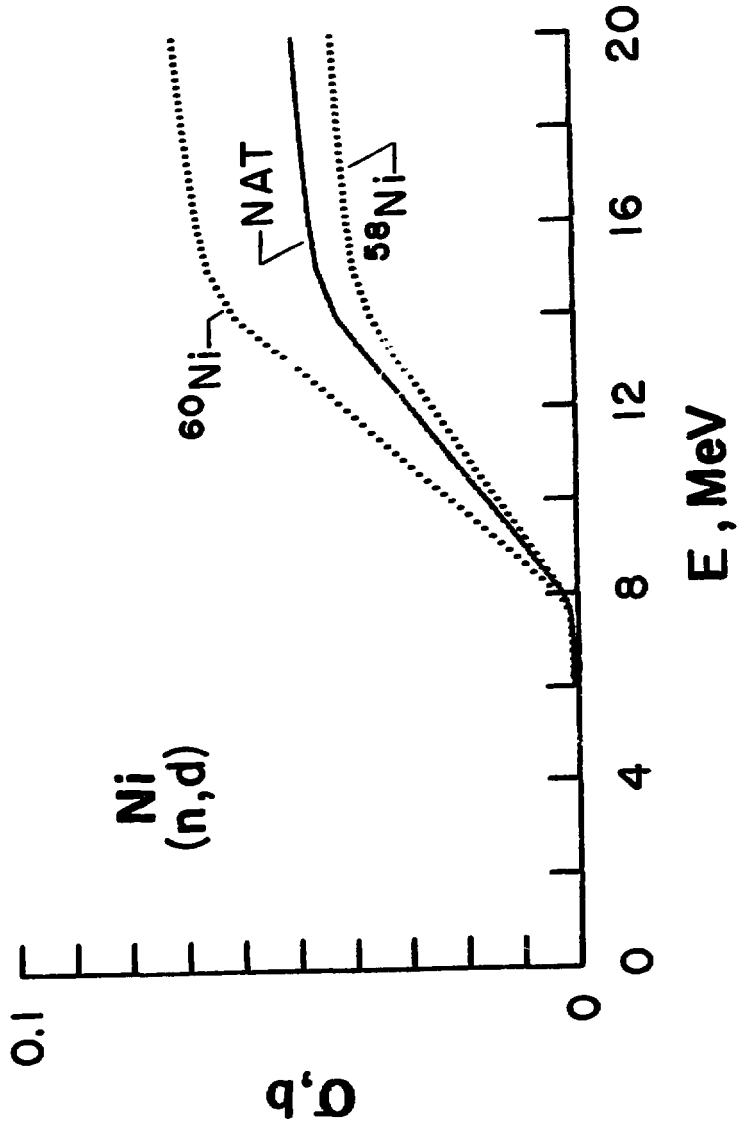


Fig. 26

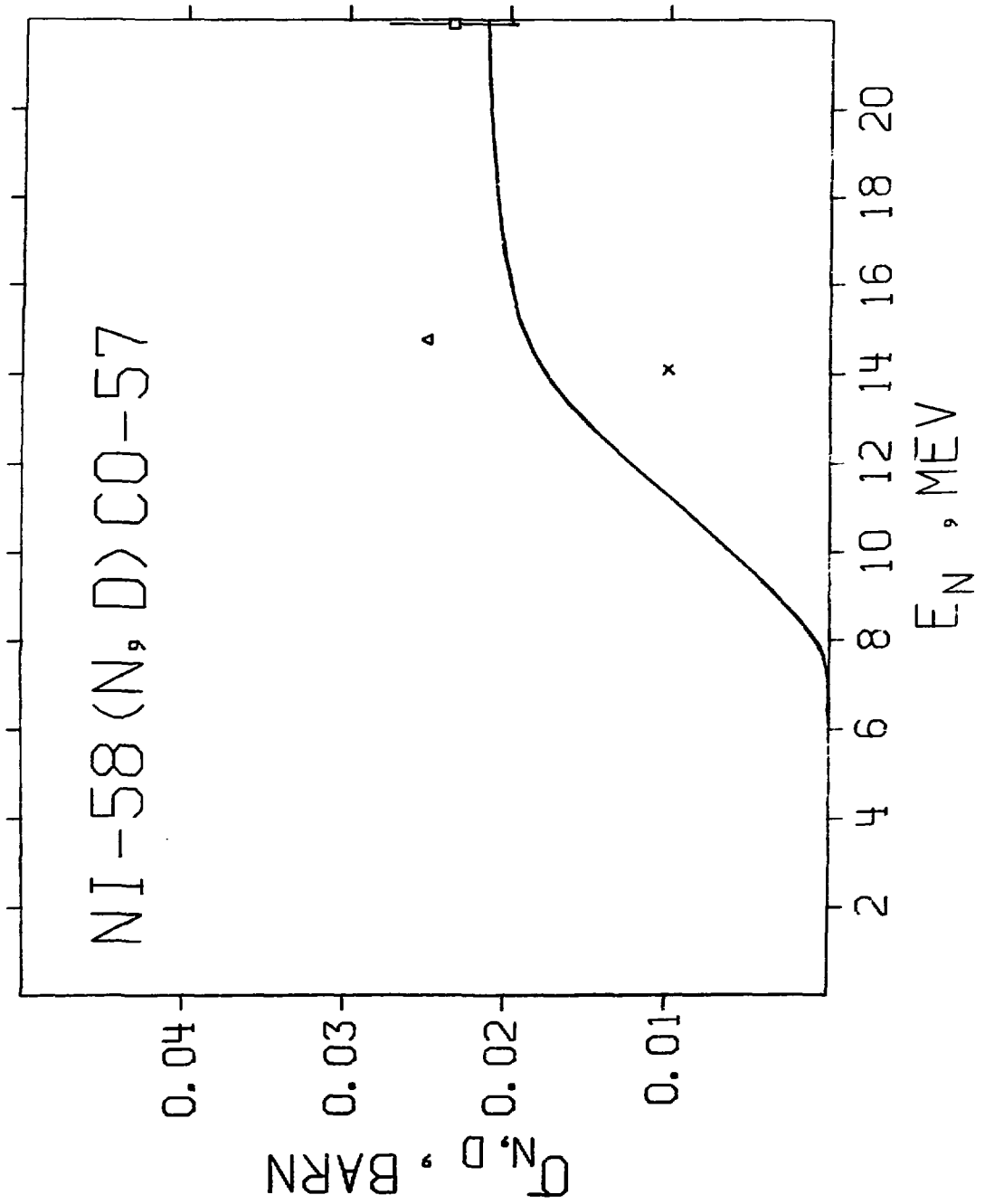


Fig. 27

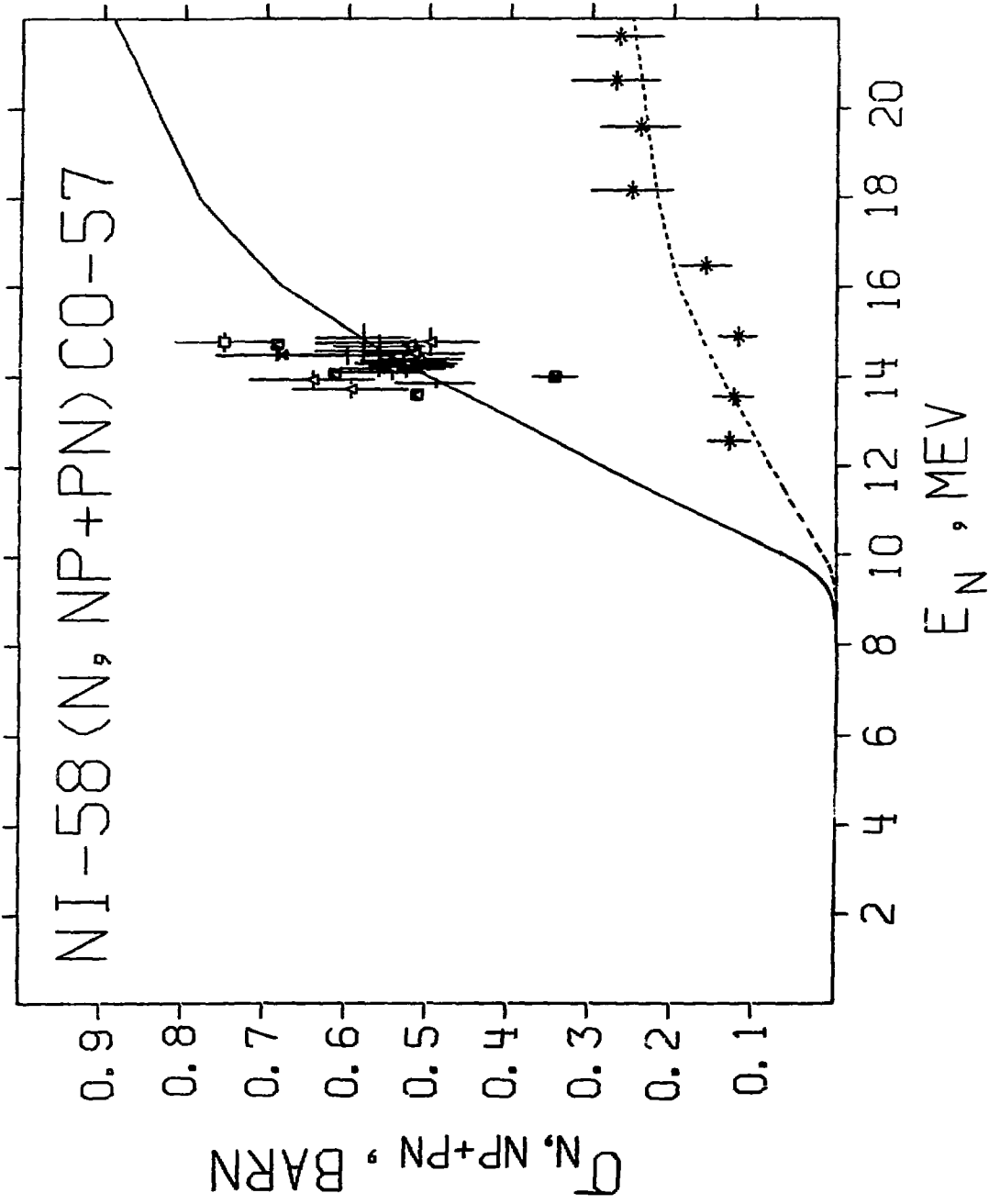
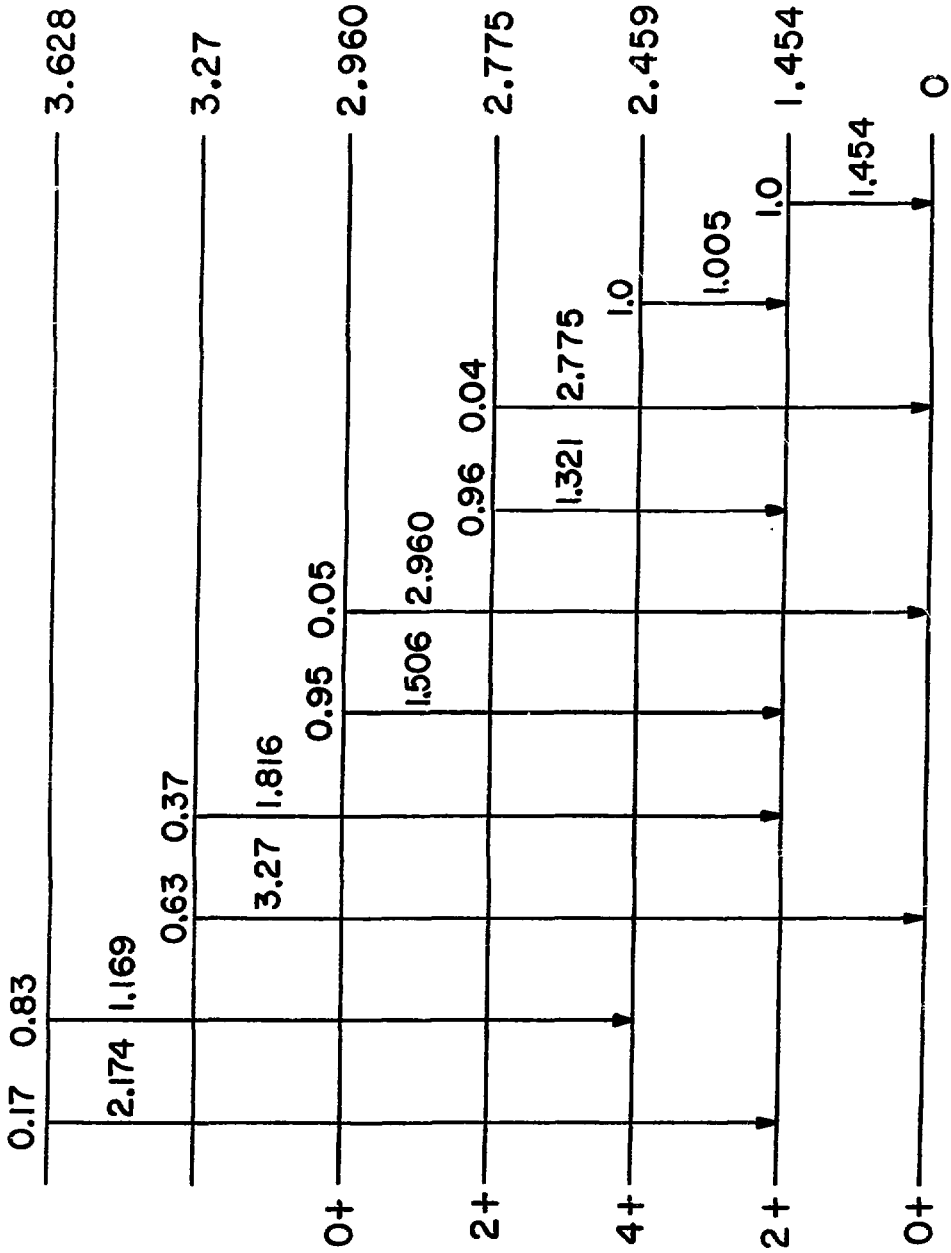
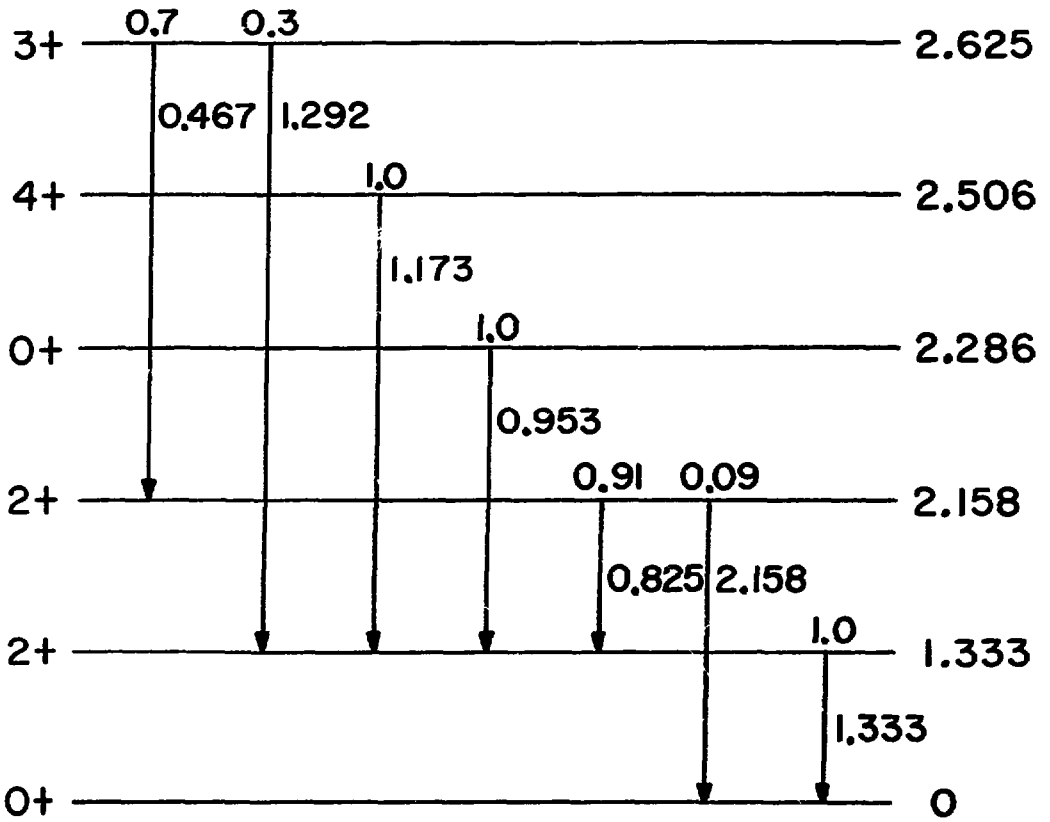


Fig. 28



^{58}Ni
28

Fig. 29



$^{60}_{28}\text{Ni}$