<u>ANL/NECT-11</u> MEASURED AND EVALUATED FAST NEUTRON CROSS SECTIONS OF ELEMENTAL NICKEL by P. Guenther, A. Smith, D. Smith and J. Whalen Argonne Mational Laboratory and P. 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.

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MEASURED AND EVALUATED FAST NEUTRON CROSS SECTIONS OF ELEMENTAL NICKEL

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ABSTRACT

Fast neutron total and scattering cross sections of elemental nickel are reasured. 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.

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L. 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 aplied 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 $\frac{58}{N_i}$ and $\frac{60}{N_i}$. They are in the region of strong 1=0 strength functions where resonance width-fluctuation and correlation corrections to the liauser-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 energyaveraged 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

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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.

11. 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 megligible chemical impurities.

Throughout the measurements the 7 Li(p;n) 7 Be reaction was employed as a neutron source with the metalliclithium 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_2

neutron detectors (8). The second set of measurements extended from 0.00 to 1.50 MeV. The method was essentially the same as that of the first set with a protonrecoil scintillator replacing the BF, detectors. The recoil sciutillator was biased to reject the second (minority) neutron group from the source reaction and garma-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-offlight 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 angle detection syster (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 deg. At incident energies of -1.5 MeV measurements were rade at 8 to 10 scattering angles distributed over the angular range. At higher incluent 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 H(n,n) process at energies > 1.5 MeV (11) and relative to the 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-

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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 cornalization 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 Ferey et al. (2), considering that the latter have appreciably better resolution with correspondingly greater maxima. The present values may tend to have slightly lover 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 Lross Sections

The differential elastic scattering cross sections were measured from 0.5 to 4.0 MeV. Below \sim 1.5 MeV the incident neutron energy resolution was \sim 20 keV and the measurements were made at intervals of $\stackrel{>}{\sim}$ 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 diff-rential 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 $\stackrel{<}{\sim}$ 10 percent with the better accuracies corresponding to the higher

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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 stooth behavior at 4.0 MeV. Selow 1.5 MeV. these fluctuations were so prenounced that it was difficult to correlate reasurements made with slightly different experimental incident energies and/or resolutions or to compare the present results with those reported elsewhere. Therefore the experimental differential discributions were averaged over incident energy intervals of $\stackrel{>}{\sim}$ 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 horzh et al. (17). Cox (18) and walt and parschall (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

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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 newtrons 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 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 $\sqrt[3]{0.7}$ HeV. 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

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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), Ferey et al. (26) and Cranberg 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 ⁵⁶Fe).

The excitation of the 2.136±0.13 and 2.255±0.030 MeV states was primarily attributed to reported levels in 60 Mi (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 Mi that would not have been resolved from the primary 60 Mi 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-

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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', γ) 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

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and more emphasis was given to energies above $\frac{1}{2}$ 2.0 MeV where the fluctuations were less pronounced.

An initial attempt to select optical potencial parameters from X-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 Holuqvist 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 Fiedeldey (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

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type of potential (relatively large real depth, $^{\infty}$ 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, $^{\infty}$ 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 4=0 strength functions of $^{\infty}$ 5 x 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 Holdauer (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-

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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 directreactions 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 conséderations 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

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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 ⁶⁰Ni and ⁵⁸Ni, respectively. Their calculated excitation functions are similar up to 🗸 2.2 NeV 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

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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 04 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 $58_{\rm Ni}(2.46$ MeV,4+) and $60_{\rm Ni}(2.51$ MeV,4+) contributions. Calculations based upon this premise gave results consistent with the experimentally observed cross sections of the present experiment to energies of 24.0 KeV. At higher energies the calculated results becaue 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 Ni(2.63 MeV,3+) and 58 Ni(2.77 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. Nowever, 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, $\beta_{ij} = 0.187$ and a vibrational coupling of ground

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(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 HeV were consistent with the results of the coupled-channel calculations.

All of the above compound-nucleus calculations, for both elastic and inelastic scattering, exployed 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 wought, 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.

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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 (b). The objective was to make wailable 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/E-IV formulated by M. Bhat in addition to the general elemental file, selected (6). 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 emergy-averaged magnitudes of that work were verified by the present measurements and those reported in Refs. 15,53 and 54. Data from Ref. 55

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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 energyaverages 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 baced on data from experiments to ~ 8 MeV and near 14 MeV. Theory was used to extrapolate and interpolate where necessary, particularly from 8 to 14 HeV and 14 to 20 MeV. Below 0.3 MeV, the recent experimental

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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 comstructed from the measured values of Perey et al. (26), Boschung et al. (24), Holmqvist and Wiedling (20), Clark and Cross (41), Kanmerdiener (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

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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 manadatory 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 \neq coefficients where

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

and P_{g} 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 $\stackrel{>}{\sim}$ 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 angleintegrated elastic scattering cross sections are 5 to 10% up to 8.0 MeV and near 14.0 MeV, regions where there is

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experimental information available. The uncertainties may be larger in the regions of theoretical interpolstion and extrapolation (i.e., 8.0-14.0 MeV and > 14.0MeV). 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:

$E_{\chi} = 1.172 \text{ MeV}, \frac{62}{Ni}$

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 \leq 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 Ni and 60 Ni. The neutron emission is assumed isotropic to 4.0 MeV and then becomes anisotropic as direct reactions become appreciable. The degree

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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 crosssection uncertainties for the excitation of this state are relatively large, 30-50%, but the absolute-uncertainty magnitudes are small, $\stackrel{<}{\sim}$ 20 mb.

 $E_{\rm X} = 1.333 \text{ MeV}, {}^{60}\text{N1}$

The excitation of this state has been observed experimentally to $\stackrel{\sim}{\sim}$ 5.0 MeV and at $\stackrel{\sim}{\sim}$ 14 MeV in both (n:n') and (n:n', y) 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 $\sqrt[7]{2.0}$ 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 HeV using theory adjusted to be consistent with the $\stackrel{\sim}{\sim}$ 14 MeV experimental values of Eammerdiener (39) and of Stelson et al. (45). The latter two sets of measurements represent the composite excitations of 1.333 (⁶⁰Ni) and 1.452 (⁵⁸Ni) states. The present experimental studies, supported by other measured values, indicate that the neutron emission is essentially isotropic below 54.0 MeV and this is assumed in the evaluation. Above 4.0 MeV the observed

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acattered 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 coupledchannel calculations and then used to provide the angular distributions for the evaluation. Below 5.0 HeV the energy-averaged of the evaluated cross sections were estimated to have an uncertainty of 2 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.

$E_{\rm X} = 1.454 \, {\rm MeV}, \frac{58}{\rm Ni}$

This state is the 2+, 58 Ni, complement of the similar 1.333 MeV state in ⁶⁰Ni (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), Sluchaevskaya (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 $\sqrt[3]{2.0}$ 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.

$E_{X} \approx 2.158 \text{ MeV}$ and $E_{X} = 2.280 \text{ MeV}$, ⁶⁰Ni

The evaluation is a subjective estimate of the energyaveraged 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 $\stackrel{\sim}{\sim}$ 4.5 MeV. The extrapolation to higher energies is guideo by theory and made consistent with the combineu 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 $\stackrel{\sim}{\sim} \pm 20\%$. The neutron emission was assumed to be isotropic for this and all subsequent excitations.

 $E_{\rm X} \approx 2.459 \text{ MeV}, \frac{58}{1000} \text{Ni} \text{ and } E_{\rm X} = 2.506 \text{ MeV}, \frac{60}{100} \text{Ni}$

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^T 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

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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 ($\stackrel{\sim}{\sim}$ 20%) and it is the latter uncertainty that will be relevant to most applications.

 $E_{X} = 2.625 \text{ MeV}, \frac{60}{11}$

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.

 $E_{\rm X} = 2.775 \text{ MeV}, \frac{58}{N1}$

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 Xef. 31. The uncertainties in the evaluation may be large (as much as two).

 $E_{\chi} = 2,901, 2.942$ and 3.038 NeV, ⁵⁸Ni

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^{T} values of Ref. 23. The calculational estimates should be qualitatively valid (± 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 and 3.392 MeV, $\frac{60}{Ni}$ and the 3.264 and 3.420 MeV, $\frac{56}{Ni}$

The cross sections for the excitation of the 60 Ni components have been reported by Perey et al. (20). 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 $\stackrel{<}{\sim}$ 30%.

 $E_{x} = 3.526, 3.531, 3.593$ and 3.620 and 3.775 MeV, ⁵⁸Ni and 3.568, 3.618, 3.670 and 3.732 MeV, ⁶⁰Ni

The available experimental information is apparently limited to the measured cross sections for the composite excitation of the ⁶⁰Ni states reported by Percy et al. (20). The present evaluation uses these measured ⁶⁰Ni values and the theoretically-calculated excitations of the contributing ⁵⁸Ni 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 ⁵⁸Ni contribution. The uncertainty in the evaluation is estimated to be $\stackrel{\sim}{\sim}$ 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 ${}^{1^{T}}$ values make calculations unreliable. Therefore, the present evaluation is confined to discrete excitation functions corresponding to states at energies of $\stackrel{<}{\sim}$ 3.7 NeV. Higher energy excitations are treated as continuum

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distributions as described below.

The above discrete inelastic excitation cross sections are compared with a number of those given in ENDF/8-IV in Fig. 11. The sum of discrete inelastic cross sections of the present evaluation is very similar to that of ENDF/8-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 $\frac{5}{2}$ 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-quilibrium continuum distribution. The first of these is defined in Topic A, above. The

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

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

(2)

where

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

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

where (A) and (B) refers to compound nucleus and preequilibrium 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 preequilibrium (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 comparisons. The pre-equilibrium temperature (T_{B}) was assumed constant, a reasonable approximation in view of other uncertainties. The finally selected parameter values were:

$$\frac{\text{Rel. Magnitude}}{\text{Lompound-Nucleus}} = 5.0 \qquad T_A = 0.334.\sqrt{E}$$
(4)

Pre-equilibrium = 0.075 T_H=7.0 MeV

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 inset 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

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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 $\stackrel{>}{\sim}$ 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.

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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 (60) 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

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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 ($\stackrel{<}{\sim}$ 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 (5 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.

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A. The (n;2n') Reaction

The present evaluation considered contributions from the ⁵⁸Ni(n;2n) and ⁶⁰Ni(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 ⁶¹Ni, ⁶²Ni and ⁶⁴Ni. Therefore, in addition to the major contributions, the evaluation introduces a very small "tail" extending to the lowest threshold; 7.954 MeV (⁶¹Ni). 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 Ni(n;2n) process (see below).

The ⁵⁸Ni(n;2n')⁵⁷Ni Reaction

This reaction has a Q = -12.203 MeV. ⁵⁷Ni 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

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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), Bramlitt 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), Jeronymo et al. (87), Preiss and Fink (88), Purser and Titterton (89), Csikei (90) and Csikai and Peto (91). Three data sets (Refs. 74-76) cover essentially the entire range from threshold to 20 HeV. 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 ⁶⁰Ni(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 (eV)	σ _{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 rational for this choice is that the (n;2n°) cross section for 58 Ni is ~ 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 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 ^{5d}Ni(n;p), ⁶⁰Ni(n;p) and ⁶¹Ni(n;p) components. Two possible additional contributions are the ⁶²Ni(n;p) and ⁶⁴Ni(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 ($\stackrel{\sim}{\sim}$ 5%) and does not show as much structure. The uncertainty associated with the evaluation is estimated to be $\stackrel{<}{=}$ 10% or 20 mb, whichever is larger, to energies of 14 MeV. The

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The agreement with the prior LADF/B-1V values is generally consistent with this accuracy estimate excepting those regions where ENDF/b-1V shows considerable struc-`ure (see discussion below).

The 58 Ni(n;p) 58 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 B^+ 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 garma 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).

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The data sets which most strongly influences 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), Debertin and Koesle(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 $K_{\perp} < 1$ HeV, only the data from Smith and Headows (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 $\sim 3 \times 10^{-0}$ barn for E ~ 0.5 KeV. The integral measurements give no details of the excitation function, McElroy and co-workers have assumed that the $\frac{58}{Ni(n;p)}$ Co cross section is a constant fraction of the total cross section in this region. The data of Smith and Headows 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 ~ 2.8 x 10^{-b} 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 x 10^{-6} barn for $L_n = 0.1-.05$ MeV. There may be structure in this region but there is not enough informa-

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tion available to determine its nature. From 0.65 NeV 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 $E_{1} = 1.0-6.0$ 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 presesti 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-b MeV, the data of Paulsen and Widera (99), Barry (105), Bebertin 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

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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 uata 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 ⁶⁰Ni(n;p)⁶⁰Co Reaction

The 60 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 gauma rays familiar to users of

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gamma-ray detectors. The 58.6 keV excited state of ⁶⁰Co 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 \pm 0.07 barns at $E_n = 8.19$ MeV and 0.52 \pm 0.06 barns at 14.0 MeV. A measurement by Prasad and Sarkar (121) yields a value of 0.025 \pm 0.006 barns for the 10.35 min isomer excitation cross section at $E_n = 14.8$ MeV. Assuming an isomer ratio of \sim 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 octivation 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

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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 Wi(n,p) 56 Co reaction. The maximum spread of the measured values from the evaluation in this region is -2 scandard deviations. The usual array of \sim 14 MeV single data points is available. The data from Allan (116), Levkovskij et al. (117), March and Morton (118) and Storey et al. (119) are in reasonable agreement with the work of Liskien and Paulsen. Measurements at \sim 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 Ni(n;p) 61 Co Reaction

This reaction produces ⁶¹Co which has a 1.65-hour half life and emits 5- and y-rays. Measurements of this cross section should not be particularly forbidding except for the low abundance of ⁶¹Mi in natural nickel. In any event, the experimental data are limited.

Van Loef (107) has measured the (n,p) cross section at 3.3 \pm 0.2 MeV and obtained the value 3 \pm 1.5 mb. There are various fission spectrum and pile measurements which were not used in this evaluation. The only remaining data are at $E_n \approx 14$ 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 \pm 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 \pm 10 mb for $E_n = 15$ MeV (117). Valter et al. (124) report a value of 80 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 \sim 0.9 MeV from the

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v-value for $\frac{58}{N1(n:n)}$ Co. Neglecting matters such as competition from other decay channels, we constructed and "evaluated" cross section curve which is qualitatively like the $\frac{58}{Mi(n;p)}$ 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.

 $\frac{62}{\text{Ni}(n;p)} \frac{62}{\text{Co Reaction}}$ The $\frac{62}{\text{Ni}(n;p)}$ reaction leads to $\frac{62}{\text{Co which has a}}$ 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 $E_{p} \sim 14$ 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) (100 mL 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 (120) 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.

The (n;a) Reaction D.

All isotopes of nickel can contribute to this process at energies of a few MeV. However, the experimental information 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-1V 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 ⁵⁸Ni(n;a)⁵⁵Fe Reaction_

This reaction has a (-value of +2.89 MeV. The product nucleus, 55 Fe decays 100% by electron capture to the ground state of 55 Mm. There is insufficient energy available to reach any excited states of 55 Mm, consequently the 2.4 year half-life decay (73) produces only X-rays. The large positive (-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 a-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

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due to the ⁵⁸Ni(n;a)⁵⁵Fe 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 x 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 a spectra for 14-15 MeV neutron bombardment of ⁵⁸N1. 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 = 15.7 MeV (128). Spira and Robson made similar but more detailed measurements at E = 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 \pm 2.0 mb for production of a particles with E_{α} > 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 ${}^{56}Ni(n;\alpha){}^{55}Fe$ reaction at 14.0 MeV (130). Their apparatus was designed to have a greater sensitivity to low-energy alpha particles than

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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;a) reaction cross sections for Z = 6 - 30 nuclei (131). Statistical calculations were used to predict the relative (n;a) 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 $\frac{58}{Ni(n;\alpha)}$ 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 Ni(n:a) 55 Fe reaction (132). The excitation function which they generated increases nearly linearly from approximately zero at 35.0 MeV to 30.37 barn at $\stackrel{\sim}{\sim}$ 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 $\frac{59}{00}(n;\alpha)$ 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

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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 $\stackrel{\sim}{\sim}$ 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 Al(n; a) 24 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 $\frac{59}{Co(n;a)}$ In reaction, taking qualitatively into account the differences in Q-values (Q= +0.3 MeV for the latter reaction). The $\frac{55}{Ni(n;\alpha)}$ Fe cross section is assumed to reach a maximum in the vicinity of 12 MeV and to decrease at higher energies where the $\frac{25}{31}(n;2n)$ 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 briksson (134) at $k_n = j$ and 10 MeV in the generation of his evaluated curve. The results are compared with the meager experimental data in Fig. 22.

The ⁶⁰N1(n;a)⁵⁷Fe and (⁶⁰N1(n;a,n'+n',a)⁵⁶Fe) Keactions There is only one experimental measurement avail-

able, that of Spira and Robson (129). They measured the 14 MeV cross section for the $(n;\alpha)$ reaction to the ground state of 57 Fe and obtained 4.3 ± 2 mb. Including a's

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with energy L $_{\alpha}$ > 14.5 MeV the cross section was raised to 5.6 \pm 2 mb.

Lacking data, we resort to theory and are again faced with a confusing picture. Gargner and Yu (131) have used the statistical model to calculate the (n;a) cross section at 14.5 MeV. They obtain $\sigma_{n\alpha}$ = 90.8 mb. Suetner et al. (132) have performed similar calculations for the $(n;\alpha)$ and $(n;n!\alpha)$ reactions and obtained results rising from threshold to $\sqrt[3]{60}$ mb at 14-16 MeV. This is reasonably consistent with the Gardner and Yu estimate, However, Schmidt (135) questions the normalization used in the calculations by Buetner et al. and suggests that the calculations may overestimate the cross sections by a fact of \sim 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 $\frac{58}{Ni(n;a)}$ processes. The possible error of nearly an order of magnitude is emphasized. It may amount to as much as $\sqrt[3]{20}$ mb at 14 MeV in the elemental cross section.

The ⁶²Ni(n;a)⁵⁹Fe Reaction

The daughter 59Fe 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; α) 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;a,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;a) processes. The present evaluation includes a (n;a,n') component estimated from the 5b 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^t) and (n;d) Reactions

Thresholds for (n:n,p'+p,n') reactions are all high. above $\overset{\sim}{\sim}$ 8.0 MeV. The present evaluation is based entirely upon contributions from ⁵⁸Ni and ⁶⁰Ni.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 $\sqrt[5]{10.0}$ 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 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;2p') 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 ⁵⁸Ni(n;n',p+p,n')⁵⁷Co and ⁵⁸Ni(n;d)⁵⁷Co Reactions The $\frac{58}{Ni(n;d)}$ Co reaction has a Q-value of -5.962 MeV while the breakup reactions ⁵⁸Ni(n;n',p+p,n')⁵⁷Co have a higher ()-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, ⁵⁷Co is the final product nucleus. ⁵⁷Co 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 on;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 ⁵⁸Ni(n;2n)⁵⁷Ni $(\varepsilon,\beta+)$ ⁵⁷Co contributions. This correction is not hard to make.

The distinction between the 58 Ni(n;n',p) 57 Co and 58 Ni(n;p,n') 57 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

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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 ⁵⁸Ni by Lu and Fink (141) indicates a cross section of 0.01 barn at E = 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 \sim 8 MeVexcitation in the final nucleus 57 Co (104). Statistical calculations by Buetner et al. (132) indicate a cross section of \sim 0.006 barn for L_{μ} = 14.1 MeV. This sparse experimental and theoretical evidence is

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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 usta base are illustrated in Fig. 27.

The ⁶⁰Ni(n;d)⁵⁹Co and ⁶⁰Ni(n;n',p+p,n')⁵⁹Co 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 $E_{\rm n} = 14$ MeV. For the ground state transition they obtain $\frac{d\sigma}{dt} = 1.9$ (±10%)

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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 $\frac{d\sigma}{dM}$ for $E_x \stackrel{<}{\sim} 3$ 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 $\sigma_{n,d} \stackrel{<}{\sim} 50$ mb. There is evidence based on 56 Fe(n;d) 55 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: $\sigma_{n,np} = 60 \pm 12 \text{ mb}$ (from Allan (120)), $\frac{1}{2}$ 68 mb (from March and Morton (116) and 59 \pm 9 mb (from Allan (116)). There is also a 15° differential scattering value of $\frac{d\sigma}{dt_{il}} n;n^{*}p = \frac{5}{2}5.9 \pm 5.2 \text{ mb}$ (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 \sim 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

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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; ³lie) Reactions

Both of these processes have relatively low thresholds in ${}^{58}Ni(\sim 6.5 \text{ MeV})$. They are experimentally essentially unknown and are probably similar to the (n;d) cross section, (i.e., shall). Therefore, they were also omitted.

I. (n;2p,n'), (n;p,2n') and (n;p,0) Reactions

The first two of these have thresholds of $\sqrt[3]{15.0}$ MeV. The lowest (n;p,a) threshold is $\sqrt[3]{6.5}$ 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 $(n;n',\gamma)$ 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

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to the relationship:

 $M(E_{n}) = M(Th) * (E_{n} + Q)/Q$,

where $M(E_n)$ is the multiplicity at incluent energy E_n^* M(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

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 ⁵⁸Ni and ⁶⁰Ni 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 garma-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 ⁵⁸Ni and ⁶⁰Ni 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.

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Photon Production Cross Sections and Spectra 4.0^{-5} E n^{-5} 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 incluent neutron energies up to 4.0 MeV. The experimental results were described reasonably

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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 $\stackrel{<}{=} 4.0$ 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.

- Nickel reflectors are commonly considered in fast reactor systems, e.g., FFTF.
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Table 1

Optical Model Parameters^a

 $V^{b} = 50.80 \text{ MeV}, \quad R_{v}^{e} = 1.198 \text{ F}, \quad A_{v} = 0.66 \text{ F}$ $W^{c} = 9.25 \text{ MeV}, \quad R_{w}^{e} = 1.204 \text{ F} \quad A_{v} = 0.484 \text{ F}$ $V_{go}^{d} = 8.0 \text{ MeV}$

- 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) Sacon derivative form.
- d) Thomas Spin orbit form.
- e) Radii are expressed in form $R=R_4 \cdot A^{1/3}$.

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 4	1.454	1.479
	2.158	2.195
5	2.286	2.324
6	2.459	2.500
7 8 9 10	2 .,506	2.548
	2.625	2.670
	2.775	2.822
	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 _{N1}	60 _{N1}	62 _{Ni}
(n;2n')	12.415	11.579	10.770
(n;3n*)	22.862	20.731	18.717
(n;p)	U	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)	6.071	10.488	14.460
(n; ³ He)	6.599	9.338	12.375
(n:a)	0	U	0.442
(n;a,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,a)	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. 11b-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 □, Ref. 18 by △, Ref. 19 by +, Kef. 20 by X, Ref. 21 by ^, Ref. 22 by +, Ref. 24 by is and Ref. 26 by X. 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 ⁵⁸Ni, ⁶⁰Ni and ⁶²Ni. 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 $(n;n';\gamma)$ experimental results are referenced as follows: $\Delta =21, \pm = 30, \times =24, 2, \pm =29, \times =25, Z = 31$ and Y = 20. 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 mickel. (Neg. No. 110-2706)
- 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.ll 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

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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)

- Pig.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;2n¹) cross sections of ⁵⁸Ni. The experimental values are from Kefs. 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. 110-2703)
- Fig.17 The (n;p) cross sections of ⁵⁸Ni below 6.0 MeV. The experimental values are discussed in Sec. V of the text and the curve indicates the present evaluation. (Nec. No. 116-2190)
- Fig.18 The (n;p) cross sections of ⁵⁸Ki 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 ⁶⁰Ni. 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 ⁶¹Ni. 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;a) cross section of ⁵⁸Ni. (Neg. No. 116-2207)
- Fig.23 Evaluated (n;n;a+a,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 ⁵⁸Ni. (Neg. No. 116-2209)
- Fig.27 Measured and evaluated (n;n'p+p,n') cross sections of ⁵⁸Ni. (Neg. No. 116-2208)
- Fig.28 Level scheme of ⁵⁸Ni used in the garma-ray production evaluation.

(Neg. No. 116-7516)

Fig.29 Level scheme of 60 Ni used in the garma-ray production evaluation.

(Neg. No. 116-7517)

APPENDIX

NUMERICAL EVALUATED DATA FILE IN THE ENDF/B FORMAT

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1 00000-	5	1 00006+	5		1		ō	Ċ.	28	2151	04
1.00000-	1	1100000+	1		-	1		0	20	2171	
0.00000+	0	0.50000-	1		U	Ű	2	U	28	2121	92
5,94154+	1	0.00000+	0		Û	0	36	6	28	2151	96
1.24300+	4	5.00006-	1	2.50210+	3	2.50000 + 3	2.14000+ 0	0.00000+ 0	28	2151	97
7000	1	E 00000	7	6 53440.		< E0000 0		0.00000.0	20	0454	0.0
2.0/000+	4	ວ∙ກາກກຸລະ	1	0.72190+	4	0,20000+ 2	2.14009+ 0	0.00000	20	2121	A 0
4.30800+	4	5.000000-	1	7,91400+	1	7,70000+ 1	2,14000+ 0	0,00000+ 0	28	2151	- 99
6.53000+	4	5.00000-	1	3.92430+	2	3,90000+ 2	2.43000+ 0	0.0000+ 0	28	2151	100
9 700000	Ā	5 00000	-	3 1 31 40 .		7 100004 2	2 14000 0	0 000004 0	20	2454	1.01
0.10000-	4	5.00000-	-	5,12140+	~	3,100094 2	2,140004 0		20	5151	101
9,66000+	4	5,00000-	1	6,92140+	2	6,90000÷ 2	2,14000+ 0	0,00000+ 0	28	2151	102
5.94154+	1	0.00006+	0		1	۵	84	14	28	2151	103
1 202004	ī	5 0000.0-	1	6.01000-	1	1 06000 - 7	6.0000-4	0.0000+	20	2151	104
1+27200+	2	5,00000-	+	C.UIU00-	-	1.00000- 3	0.00000-1		20	2191	104
2.25700+	3	1.50000+	ŋ,	6.34000-	1	3.40000- 2	6.00000 = 1	0.0000+ D	28	2151	105
5.03000+	3	1,50000+	0	6.28000-	1	2.80000- 2	6.00000 = 1	0.00000+0	28	2151	106
2.380004	Ā	1.500004	Ċ.	1.00000	ō	7.00000 = 1	1.20000+ 0	0.00004 0	28	2151	107
2.00000+	7	4 500000	ž	1,700004	¥.	2 20000- 1	1,20000+ 0	0.000000	20	CT-1	4.00
3.01000+	4	1.00000+	ij.	8.20000-	1	2,20000-1	0.00000- 1	n*4480C+ 0	28	2191	108
3.29000+	4	1.50000+	0	6.40000-	1	2.40000- 1	6.00000 - 1	0.00000+ 0	28	2151	109
3.33000+	4	5.00000-	1	9.00000-	1	3.00000- 1	6.00000- 1	0.00004 0	28	2151	110
7 04000	-	- E 00000	÷.	1 07000	-	0 00000-1	4 04040- 1		20	04 E 4	
3.94000+	4	1,50000+	J.	1,2/000+	U	2.70000= 1	1°00000+ 0	u ∎uuuuu+ Q	20	2121	111
4,74000+	4	1.50000+	0	1.90000+	0	7.00000- 1	1.20000+ U	0.00000+ 0	28	2151	112
4.96000+	4	5.00000-	1	1.05000+	Ω	4.50000-1	6.00000- 1	0.000004 0	28	2151	113
6 15000-	Å	4 50000	ñ	0 60000-	1	3 60000- 4	6.0000- 1	0.00004.0	26	2164	144
2112000+		1,0000+		7.00000	-	0.00000-1			20	2121	114
5.63000+	4	5. 00000•	1	1.66000+	U	1,00000+ 0	6.00000- 1	n*acn00+ 0	28	2151	115
5.69000+	4	1.50000+	0	9,20000-	1	3.20000- 1	6.00000- 1	0.00000+ 0	28	2151	116
7.130004	۵	1.500004	ñ	6.9000-	Ť	2.90000- 4	6.0000- 1	0.00000+ 0	28	2151	117
3 1 1 0 0 0 0 T	7	2.0400.		0120000	÷.	-+>0000 T			20	C171	410
2.80620+	4	3.97000-	2		Ų	0	1	0	28	2191	118
1,00000-	5	1,00000+	5		1	1	0	0	28	2151	119

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	0.03000+		6.500.00-	1		0	0	1	2		6 5	28	2154	•
	4 12050.		0 00000	ិត		ñ			22		2	20	2454	
	0113730+	1	0.00000+	0					24		~ 4	:0	2121	
•	4,60000+	3	5,00000-	1	1.70210+	5	1,70000+ 3	2.14000+	0	i 0,0000+	0 2	28	2151	1
	3.85000+	4	5.000000-	1	2.52140+	2	2.50000+ 2	2.14000+	Ð	0.00000+	0 2	26	2151	1
	6 34000		5 60000-	-	4 00440.	5	4 00004 2	2 140004	ň	0.00000	ñ i		2154	
	2.30000	- 4	2.00000-	-	14051404	~	1.00000+ 2	2.140004	U	0	0 6	:0	5151	
	9,35000+	- 4	5,00300-	1	2,25210+	3	2.25000+ 3	2.14000+	0	+900000+ 0	0 2	28	2151	1
•	6.13958+	1	0.00009+	- 0		1	0		6		1 2	8	2151	1
	7 40000	- 7	E 0000c-		. 75400.	5	1 760004 0	4 00000-		0.00000	22	20	2454	
	/.00000+	-4	2.00000		1.72000+	~	1./20004 2	0+00000-	1	0.0000	0 4	0	2121	-
	2,60640+	- 4	1.48000-	-2		Ŀ	D		- 1		0 2	28	2151	- 1
	1.00000-	£.,	1.000004	5		1	4		n		n 2	28	2151	1
	100000-	1		5		2	•		š				OAE.	
	0+00000+	U	1.23039+	1		U	Ű		2		t' 2	20	6121	- 1
	6.33782+	1	0.00000+	0		0	0		12		22	26	2151	1
	1.38000+	4	5.00000-	1	8.02140+	2	8.00000+ 2	2.14000+	۰.	0.000004	n 2	28	2151	•
	7 70000		5 000000	-	0 E04 40 -	5	0 50000 0 0		ž	0.000000			0454	
	3.32000+	-4	2,00000-	+	9422140+	۷	3°500ñ0+ 5	2+14000+	U	0.000000	U 4	C	2121	- 4
	6.33782+	1	0.00000+	ŋ		1	0		6		12	28	2151	1
	0.520004	7	1.500004	а	7.16000+	í.	6.18000+ 0	1.00000+	n	1.00000.	0 2	8 9	2151	1
	7 F 2 C 0 0 C 4	0	11000004		1120000		0,100000000	*********	- 1	540000				
												0	2 0	1
	0,00000+	Û	0,000000+	0		0	ວ		6		02	28	0 0	1
	2.83000+	a	5.81826+	1		Û	93		6		c 2	PA	3 1	1
	0.00000.		0 000004	â					Ť	n=n	2 7		3	
	0.00000+	C	0.00000+	U		U	U		ు	202	0 2	0	3 1	1
		4		5	3	56	3	25	26		22	28	3 1	1
	1.00000-	5	1.54136+	2	1.00009-	4	5.40526+ 1	1.00000-	3	2.24026+	1 2	R	3 4	- 1
	1 0 0 0 0 0 0	1	4 07047	7	0 67400	n.	1 04757. 4	7 74747-	ž	4 02070.			÷ :	- 2
	1.00000-	5	1.239434	£,	2.220000-	2	1.00/5/+ 1	3.30/43-	2	1+020/9+	1 4	0	3 1	1
	4,48205-	2	9.95200+	U	5,96561-	2	9.66070+ 0	7.94022+	2	9,40820+	02	28	3 1	1
	1.05684=	1	9.18936+	Ü	1.40666-	1	6.99970+ 6	1.67226-	1	8.93510+	0 2	8	3 1	1
	2 40106-	-	6 407671	5	7 74693-	4	6 660044 0	4 41470-	- 4	8.46184.	0 2	A	i	-
	2143730-	Ŧ	0.092034		2.01000-	+	01009014 0		1	01401044	u c		5 1	-
	5.0/596-	1	8.36884+	Û.	7.82091-	1	0,28520+ 0	1.04090+	6	0,21027+	02		51	_ 1
	1.38552+	D	5.15744+	0	1.84413+	0	8.10475+ u	2.45454+	C	8.05875+	02	8	3 1	1
	1.266994	ň	5.01859+	'n	4.34836+	G	7.95347+ 11	5.787674	ភ	7.952404	n s	A	3 4	1
	7 70170	~	7 02407.		1 02673.	4	7 000754 0	1 744704	2	7 87770.			7 1	- 1
	/./0330+	G	1.924914	9	1.022324	+	7.900334 8	1,004/04	<u> </u>	7.0///0+	0 2	.0	5 1	1
	1.81642+	1	7 85670+	u	2,41762+	1	/ . 83644+ U	3.21789+	1	7,81620+	02	. 8	31	1
	4.28.302+	1	7.79503+	0	5.70070+	1	7.77190+ 0	7.58763+	- 1	7 * 74574*	02	28	3 1	1
	1.00014	5	7 7: 146+	Č.	1.221994	2	7.69007+ 0	1.62648+	2	7.64570+	0 2	A	3 4	4
	T10033T+	C	7.714404		19621/74	2	7 547574 6	21020404	~	7 434074				- 1
	2.164844	5	7,58965+	U.	2.00140+	¢	/.21/20+ 0	3.03714+	-2	/ 42493+	0 Z	6	3 1	1
	5,10458+	2	7,39238+	6	6.17654+	2	7,20132+ 0	8,22097+	2	7.01173+	02	8	31	1
	9.94738+	2	6.85466+	Ĺ)	1.29134+	3	6.59076+ 6	1.29134+	3	6.59026+	0 2	8	3 1	1
	4 201664	7	6 600 KOA	ñ	4 204794	à.	6 589614	1 201864	- ž	6 589654	ñ 2	R	3 1	- 1
	TICATODA	9	0.09000+		142 71 144		0,00001+ 0	11231004			5 6		2 I	-
	1.29201+	3	6.58936+	5	1,29219+	S	0.20942+ 9	1.29230+	- 5	0+25900+	U 2	8	31	1
	1.29245+	3	5.53948+	0	1.29266+	3	6.58907+ 0	1.29342+	- 3	6.58875+	02	8!	3 1	1
	1 762244	ż	6 185614	à	2 242264	3	5.78245+ 0	2.253784	Ť	5.781134	0 2	R	3 4	1
	11/042-1	2	0.10200+	Ÿ.	L		5 99016 0	D 05500	~	5 77707			2 1	
	2.27480+	3	5./8000+	U	2,20001+	3	2.//807+ U	2.27798+	ు	2.1//03+	0 2		<u> </u>	1
	2.25631+	3	5,77058+	0	2.25653+	3	5.76245+ 0	2.25668+	- 3	5.77730+ (02	8	3 1	- 1
	2.25685+	3	5.76200+	Û	2.25711+	3	5.75590+ n	2.25715+	3	5.77940+	0 2	8	3 1	4
	0.05770.	ž	5 79 34 6		0 05747	7	6 757704 0	2 26740	~	6 76746		R	2	- 7
	2+27/32+	\$	24//2134	U	2.22/4/+	3	21/23/U+ F	6.23/09+	э	2.10/16+	υ ε	0	J 1	1
	2,25802+	3	5,77387+	ŋ	2+25849+	3	5.77515+ 0	2.25919+	3	5.77565+ (D 2	8	3 1	1
	2.26022+	Å.	5.77543+	11	2 27997+	3	5.76665+ 0	2.34554+	3	5.76741+ 0	n 2	R	3 1	4
	7 47440.	¥.	4 0 3 4 5 7 4	ă.,	7 7776	7	4 47046 . 0	4 04750	ž	4 13074			7	÷
	0.404T04	3	4:252214	J	3.///21+	2	4.4/CIDT 0	4.013204	3	4+1/0/4+ 1	0 <u>2</u>	0	5 1	1
	4,20081+	3	3.91428+	ίJ	4.57079+	3	3,51195+ 0	5.02787+	3	3+38576+ (02	8	31	1
	5.52782+	3	2.52671+	Û.	5.52852+	3	2.52570+ 0	5.52899+	3	2.52597+ (02	6	3 1	1
	E 600744	-	0 505134	n.	5 600534	ĩ.	2 624264 0	5 520784	ż	2.51204+	n 9	Â	7 4	4
	2.222214	3	2. 72710	<u>.</u>	7.727704	2		51229704	5	C1/12044			5 1	-
	5.52985+	3	2.51297+	J	5+23001+	3	2.51623+ 0	5.53015+	- 5	2.50579+ (02	6	3 1	- 1
	5.53032+	3	2.52009+	9	5.53047+	3	2.52025+ 0	5.53069+	3	2.52103+ /	° 2	8	3 1	1
	5.53101+	3	2.521.74	J	5.53143+	3	2.52129+	5.53218+	3	2.52111+ 0	n ē	8	3 1	1
	E EXA00.	7	D Engage	a a	L GLEEL	ž	2 100021 0	6 89704	2	1.36070. 4		Ā	2 2	- 4
	2+24400+	J	6170040+	U	2 03222+	3	C+170024 U	0.00/04+	2	4 370/94 8		0	3 1	- +
	6,83953+	3	1,36066+	ŋ	+00088.8	5	1,36200+ 0	3,88932+	3	1,36043+ (J 2	8	51	1
	6.83954+	3	1.36159+	0	6.83979+	3	1.37145+ 0	6.88985+	3	1.36235+ 1) 2	8	3 1	1
	6 80004	ž	4 762164	ñ	6.80/15-	3	1.355494 0	6.800344	ĩ	1.35084+		R	2 .	
	0.07001*	5	1,302304	2	240701J+	2	1 750074 C	01020014	2	4 7555A /		5		-
•	0.89046+	5	1.35201+	J.	0.070004	2	1.3729/4 0	0.07100+	3	1+32224	12	0	<u>ა</u> 1	1
	6,89147+	3	1,35486+	ŋ	6,89215+	3	1,35498+ 0	6.9005+	3	1.34975+ () 2	8	31	1
	8.09744+	3	4.08794-	1	8.41520+	3	1.52974- 1	8.61219+	34	-7,50730- 3	52	8	31	1
		-		-		-								_

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8.20718+	3-2.50727-	1	9.27010+	3-6.66963-	1	9.51637+	3-8.67900-	1	28	3	1	180
9 2001+	3-8.91590+	1	9.53692+	3-0.96280-	1	9.55652+	3-9.06040-	1	28	3	4	181
9.79700+	3-1.11070+	, î	1.001004	4=1.27509+	Ē	1.05447+	4-1.799564	ň	28	3	1	182
1 77774	ALL BUILLE	i	1 116364	4-2.11620	ົດ	1 156804	4-2.250704	ň	28	ž	-	163
1 190024	4-100000	_ ň	1 21051	4-3 503401	- K	1 320724	4-2 55180.	0	20	7	4	404
1+1/072*	4 7 53000	<u></u>	1.217207	A-7 504000	Ц	1 77047	4-7 45700+	U	20	7		104
1.32981*	4=3.53700+	J	1.25441+	4-3.92120+	9	1.33013+	4=3.07329+	U	20	3	1	162
1.33019+	4-3.64060+	J	1.33(23+	4-3.62920+	ç	1.33419+	4=3+62900+	6	28	3	1	186
1,35963+	4-3.75810+	J	1,35975+	4=3.77510+	U	1.35983+	4-3.76960+	0	28	3	1	187
1,35997+	4=3,64570+	Ũ	1.36012+	4-3.83700+	J	1.36017+	4-3,55786+	0	28	3	1	188
1,30025+	4-3:34120+	Ú	1.36037+	4-3.83590+	Ú	1.36764+	4-3,P9560+	0	28	3	1	189
1.57381+	4-4,19220+	U	1.43964+	4=4,45960+	ί	1.44575+	4-4,47290+	0	28	3	1	190
1.40761+	4=4.35390+	C	1.47904+	4-4,13470+	C	1.50000+	4-3,24522+	0	28	3	1	191
1.57169+	4-3.17519+	J	1.51000+	4-2.77279+	ŋ	1.51712+	4-2.42090+	Ō	28	3	1	192
1.55080+	4-1.55000+	ā	1.56908+	4-1.49600+		1.58288+	4=1.19600+	ñ	28	3	1	193
1.59631+	4-6.1(000+	1	1.64444+	4 9.38400-	Ť	1.65425+	4 1.11200+	ň	28	3	1	194
1 713154	A 1 AA7304	Ē	1 7 45 7 5 +	4 1 42360+	0	1.78804	4 1.264BC+	ň	28	ž	4	105
1	4 0 4/630-	4	1 600494	4 2 82500-	4	1 900704	A 6 83406-		20	7	4	104
1.200904	4 9,40300	1	1.049004	4 5,020004	1	1.079/04	4 0,00000	1	20	3	1	190
1.0999/+	4 6.82390-	-	1.90012+	4 8 70900	1	1,90022*	4 0.72809-	1	20	3	1	197
1.90102+	4 8,74900-	1	1,9/943+	4 0.73401-	1	1.99946+	4 0.10300-	1	28	5	1	198
1,99963+	4 6.13000-	1	1.99975+	4 6.1/300-	1	1,99983+	4 6.24601-	1	28	3	1	199
1.99997+	4 6,21390-	1	5+30015+	4 5.75130+	1	2+00017+	4 5,80703-	1	28	3	1	200
2.00025+	4 5.86030-	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 4,287úJ~	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 4.03600-	1	28	3	1	203
2.10088+	4 4.16400-	1	2.16788+	4 4.37800-	1	2.10856+	4 4.68700-	1	28	3	1	204
2.10933+	4 5.39400-	1	2.10954+	4 6.10109-	1	2.10969+	4 5.59800-	1	28	3	1	205
2.10979+	4 5.15900-	ī	2.11000+	4 3.95400-	1	2.11021+	4 2.94300-	1	28	3	î	206
2 11:1314	4 2 62101	1	2.11067.	4 2.41200-	1	2.11008+	4 2.60500-	i.	28	3	4	207
12 1 5 1 4 4 4	A 2 202030-	-	2 4 4 3 1 3 4	4 2 Phillip	-	2 117174	A 3 11460	-	20	ž	يد م	200
C+111444	4 2 200000	+	2112127	4 2 37400-	1	2 4110124	4 7 07600	1	20	7	1	2.00
2.11400+	4 3.21030-	- 1	2.110/3+	4 3.2/100-	1	2.11780+	4 3+2/290*	1	20	3	1	2119
2.13132+	4 3.13000-	1	2,20320+	4 9,14000-	2	2.31029+	4 1,28000-	2	28	2	7	210
2.3/594+	4-8.99333-	2	2.37/91+	4-4.00000-	2	2.37358+	4-9.04000-	2	28	3	1	211
2.3/903+	4=8.92000=	5	2.37934+	4-0,70000-	2	2+37955+	4-8,35000-	2	58	5	1	212
2.37969+	4-7.36000-	2	2.37579+	4-6.86000-	2	2,37985+	4-7.20000-	2	28	3	1	213
2.37990+	4-7.54000-	2	2.37997+	4-9.76100-	2	2.38004+	4=1.01400=	1	28	3	1	214
2.38014+	4-1.34100-	1	2.35021+	4-1,15800-	1	2.39030+	4=1.14700=	1	28	3	1	215
2.38045+	4-1,10106-	1	2,38966+	4-1,06700-	1	2.38097+	4-1.04400+	1	28	3	1	216
2.33209+	4-1.03100-	Ł	2.38306+	4-1.63500-	1	2.38450+	4-1,05600-	1	28	3	1	217
2.50000+	4-3.16164-	1	2.54132+	4-3.98389-	1	2.59780+	4-5.50011-	1	28	3	1	218
2 65768+	4-7.62708-	1	2.65842+	4=7.59564=	1	2.65892+	4-7.52462-	ĩ	28	3	-	210
2 .8027	4-7 30010-	1	2 65050	4-7 18701-	4	2 659664	4-7 01270-	÷	28	ž	4	226
2 45977	4=7 + 37010-	1	2.039204	4-4 50750-	+	2 450004	4-7.002270-	1	20	2	-	224
2 10 J 7 / / +	4-5-54305-	4	2.037044	4-6.90390-	1	2.037074	4-5.09200-	4	20	2	1	221
2.0399/*	4+21212024	1	2.000000	4-0,70903-	1	2.000104	4 0 0(400	1	20	3	1	222
2,00010+	4-9,912/0-	1	2.00023+	4-9.10010-	1	2.00034+	4-8,80100-	1	20	3	1	223
2,66059+	4-8,49938-	1	2.660/3+	4-8.32809-	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	28	3	1	225
2.67362+	4-8.58271-	1	2,71628+	4-1,13866+	Q	2.76536+	4-1.69450+	0	28	3	1	226
2,79877+	4-2.34405+	ŋ	2,82151+	4-2.86558+	n	2.83699+	4-2.94005+	0	28	3	1	227
2.84753+	4-2.56845+	J	2.83471+	4-2.11391+	Ū	2.87000+	4-1,56713+	0	28	3	1	228
2.88529+	4=1.36500+	Ð.	2.90301+	4-3.88404-	1	2,91849+	4 2.27826-	1	28	3	1	229
2.94123+	4 5.80171-	Ĺ	2.97464+	4 6.31585-	,	2,99030+	4 5,99626-	1	28	3	1	236
3.60939+	4 5.51526-	ĩ	3.00972+	4 5 54177-	1	3.00981+	4 5.55086-	1	28	3	ĩ	231
3.00007-	4 5.51370-	ī	3.010134	4 5.38370-	4	3.010101	4 5.37884	÷	28	ž	4	220
3.010284	4 5, 38680-	Ť	3.010614	4 5.40227-	4	3.010004	4 5.41715-	4	20	ž	1	222
2 014234	4 5 41006-	-	3.08033+	4 3 36046-	4	3 00567-	- JI1/10-	4	20	7	4	232
3 4 4 7 0 0 ·		+	2 00474	A 1 10467	Ť	7 04600	A D DA036	-	20	2	1	234
3.10/22+	4 1./4000*	Ť	3 201/4+	7 1,12403-	1	3.21000+	4 0.00000	2	20	2	1	200
5.221/5+	4 7.95900-	4	3+22/2/+	4 / 19950-	2	3.23154+	4 0,92010-	2	28	5	1	236
3,23424+	4 7.040/0-	2	3.23608+	4 7.68250-	2	3.23733+	4 8.65760-	5	28	5	1	237
3,23818+	4 1,03827-	Ť	3.23676+	4 1.29427-	1	3.23916+	4 1.63182-	1	28	3	1	238
3,23943+	4 2.2182u-	1	5.23961+	4 2,80530-	1	3.23973+	4 2.78230-	1	58	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	3.24026+	4-2.67120-	1	3.24039+	4-1.66090-	1	28	3	1	241
8 941574	4-1 19140-	- 1	6 24084	4-8 23220-	5	3 241244	4-4 4.0030-	5	28	3	-	242
3 2 3 1 1 0 0 4	4-1,10140-	- 1	7 04047.	4-3 00000-	7	3 247024	4 9 24500-	-	20	ž	-	243
2.541954	4-1.8/470-	4	3,29201+	4-2.00900-	3	3.243924	4 0.23370	3	20	3	1	240
3.24576+	4 1.39139-	-2	5,24840+	4 1,241/1-	-2	3.24921+	4 1.231/0-	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
3.28720+	4-1.03340-	2	3.20801+	4-1.04350-	2	3.28864+	4-9,93400-	3	28	3	1	246
3.28908+	4-9-05200-	3	5.28937+	4-7.92600-	3	3.28957+	4-6.59500-	3	28	3	1	247
3.240714	4-3 86400-	ž	3 26080+	4-9.01000-	Ā	3.28007+	4 7.92200-	7	28	3	1	24E
7 10047		.,	7 20020.	4-2 25070-	2	3 200204	A_1 58170-	2	28	ž	1	240
2124012+	4-2,40300-	4	3,29020+	4-2,20070-	4	3.270274	4-1.0010/-	2	20	-	1	050
3.24043+	4-1.67350-	2	3,29063+	4=1,45200=	2	3.290924	4-1,30200-	5	28	3	1	270
3.29135+	4-1,27340-	2	5.29199+	4-1,21350-	2	3.29767+	4-9.64000-	3	28	3	1	251
3,52000+	4-1,40736-	2	3,32855+	4-2.09490-	2	3.32901+	4-2,9654ü-	2	28	3	1	252
3.32933+	4-1.95360-	2	3.32954+	4-1.85540-	2	3.32969+	4-1.63180-	2	28	3	1	253
3. 12970+	4-1.426.50-	2	4.32997+	4-1.90352-	2	3.33014+	4-4.87890-	2	28	3	1	254
7 77004	4-7 41030-	5	2 22021.	4-3 03740-	5	7 770464	4-2.86430-	5	28	3	1	255
3.330214	4-3.41030-	~	3.330314	4-5.05/50-	2	3.339404	4-24004000	-	20	ž	+	051
3.33067+	4-2.73410-	S	3,33099+	4-2.000-0-	2	3.33145+	4=2.02050=	2	28	్ల	1	220
3.34233+	4-2.92960-	S	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+	4-2.04406-	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	i	260
3 419604	4 5 09800-	-5	3 410794	4 7 16500-	2	3 41985	4 6.27290-	5	28	3		261
7 440000	4 2107000-	5	7 44007	4 7 14440	-	7 420054	4 0 75500	-	20	ž	-	540
2.41440+	4 2.3//00-	4	3+41987+	4 3 10000	1	3.420034	4=2,79900=	Ŧ	20	2	1	202
3,420094	4-2,20243-	1	3.42014+	4-1.//120-	1	3.42021+	4=1.42436=	1	20	2	I	250
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+	4-4.77139-	2	3,42211+	4-4.26070-	2	28	3	1	265
3.42310+	4-3,95380-	2	3.42456+	4-3,78050-	2	3,42670+	4-3.72950-	2	28	3	1	266
3.47277+	4-6.39080-	2	3.57320+	4-1.28915-	1	3.58592+	4-1.36008-	1	28	3	1	267
3.500474	4-1 41582-	1	5.602944	4-1 41342-	4	3.605194	4-1.39431-		28	3		268
3 606774	4-1 25552-	4	4 60777	Ant 20102-	-	3 606494	A=1 10281-	1	26	ž	4	240
7 4090734	4-1.00002-	4	7 60070	4-9 27470-	-	3.600404	4-1017201-	5	20	ž	4	207
2.0003/+	4=1.0412/*	1	3,00930+	4-8,2/0/0-	6	3.00992+	4=2.02700=	2	20	3	1	270
3.63967+	4-2.53000-	5	3,60978+	4 5.91200-	2	3,00985+	4 9+/0200=	2	20	3	1	2/1
3.60996+	4 1,96334-	1	3,61007+	4-3,25600-	1	3.61015+	4=3.45040=	1	28	3	1	272
3.61022+	4-3,03330-	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
3.721744	4-2.13741	1	3.83724+	4+2.67363+	1	3.93935+	4-3-12053-	1	28	3	4	277
7 02054	4-2 40105-	-	3 03070	4-3 06456-	4	2 070904	4-3 63087-	-	29	7	4	278
3,737264	4+3,10109-	+	7 07004	4-3,004,004	+	7 04001	4-7 20700	*	20	2	1	270
3.93982+	4=3:0/044=	1	3,43441+	4=3,11900=	1	3.94002+	4=3.29390=	1	20	3	1	219
3.94014+	4-3,29450-	1	3,94020+	4-3.28365-	1	3.94030+	4=3.20547=	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	295
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 30408-	1	4.24935+	4-7.52534-	1	4.29530+	4-9-119455-	4	28	3	1	284
4 200764	4-1 008134	'n	3 302124	4-1 255634	n.	4.303004	4-1.304184	ā	28	3	-	245
4 70507.	4-1.09010+	8	4 70644	4-1 414 774	6	4 702004	4-0 51976-	-	20	ž	-	202
4,3092/4	4=1.222/1+	U	4.31014+	4-1,11100+	U	4.30000+	4 7 70454	1	20	37	1	200
4.30980+	4-6.89008-	1	4.31373+	4-1,13/40-	1	4.31388+	4-3./0471-	1	28	2	1	287
4.31064+	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+	4-5.25653-	1	4.73955+	4-5-17243-	1	28	3	1	291
4.73970+	4-5.10351-	ĩ	4 71079.	4-4.96650-	÷.	4.73985+	4-5.06446-	i.	28	3	4	292
4.730004	4-5 04220-	-	4.71007-	4-5 34574-	4	4.74004+	4=5.40740=	-	28	ž	1	267
	1-5 07600"	4	4 94004	A_E E0470	-	4 74020	4-5 57700	4	20	ž	+	273
4./4014+	4=2,03220=	1	4.74021+		1	4.740304	4-717//UY+	1	20	3	1	274
4.74045+	4-5,51095-	1	4.74142+	4-5,39985-	1	4,74450+	4-2,36845-	1	28	3	1	295
4,77872+	4-5,34107-	1	4.78232+	4-5,28372-	1	4,73477+	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+	4-3,50020-	1	4.76948+	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

-A-5-

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+	4-6.46894-	1	4.79242+	4-6.17585-	1	28	3	1	362
4.79356+	4-5 07190-	1	4 705234	4-5 83421-	. 1	4.707684	4-5.74364-	4	28	3	-	303
4 50.57	4 5 65504	-	4 04 474	4-5-64607-	1	4 05047	4 5 20000	-	20	ž	-	704
4.00007/+	4-2.00794-	+	4.81434+	4=2,0420/=	1	4,9094/4	4-9,09002-	1	20	3	1	304
4,99964+	4-5,8552/-	1	4,959/5+	4-5.82268-	1	4,95983+	4-5./0116-	1	28	3	1	305
4.95997+	4-5,81613-	1	4.90011+	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+	4-5.35577-	1	5.14977+	4=5.81671=	1	5.14996+	4-5.65681-	1	28	3	- Ĩ	309
5 150154	4-6 20176-	ŝ	5 15027.	4-6 16702-		5 160774	4-6 00739-	1	20	ž	â	340
24120124	4-0.221/0-	4	5 45405	4-4 00702-	1	51120334	4-0,09730-	+	- 20	3	1	310
5,12049+	4+0.0540/-	1	2,15102+	4-0.00/94-	1	2,17172+	4-2.99703-	1	20	2	1	311
1.30367+	4-5,54/5/-	+	5.34455+	4-5,/4452-	1	5.35592+	4=2,06531=	1	28	5	1	312
5.30361+	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+	4-5.94997-	1	5.39116+	4-6.03299-	1	5.47792+	4-5.80996-	1	28	3	1	315
5.47904+	4-5.71152-	- 1	5.47034+	4-5 62773-		5.47055+	4-5.50116-	-	28	ž	-	316
5 470704		-	5 47070+	4-5 10077-	4	5 470951	4-4 61030-	4	20	ž	-	247
5 470000	4-9.33003-	÷	5 47007.	4-5,10923-	1	5 49904	4 7 87740	1	20	7	1	240
5.479904	4-4,01000-	7	2:4/99/+	4-2:04/30-	1	5.400044	4=/ , 7/310=	1	20	3	1	310
⊅.48J14 +	4-6.801/0-	1	5.48021+	4-0.02012-	1	5.48030+	4-0,4424/-	1	26	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-	÷	5.630274	4-6 17671-	. .	5.630304	4-6.07062-	4	28	ž	1	324
5 530574	4-0.000010	4	5103027+	4-6 94050-	1	5 470494	4-5 95024-	1	20	7	4	305
5.030574	4-2.79149-	+	91030044	4-5.94050-	' <u>+</u>	5.03200+	4-9.09924-	1	20	3	1	329
2.00423+	4=5,72000=	3	5.00908+	4-2.00052-	1	5.009/8+	4=2,03010=	1	28	5	1	326
5,68997+	4-5.68414-	1	5.69015+	4=6.00914=	1	5.69022+	4-5.97124-	1	2B	3	1	327
5,69032+	4-5.91382-	1	5.69047+	4-5.88690-	1	5.69148+	4-5,83143-	1	28	3	1	<u>358</u>
5.91933+	4-5.68070-	1	5.99231+	4-5.53576-	1	6.03448+	4-5.37760-	1	28	3	1	329
6.11287+	4-4.60862-	1	6.16623+	4-4.14266-	1	6.20226+	4-3.61256-	1	28	3	1	330
6.23674+	4-3.15794-	-	6.250004	4=2.72734=	- ī	6.330374	4-2.29043-	i.	28	3	-	331
6 (04114	4-1 69420-		6 43750+	4-1 22414-	4	6 467074	4-2020043-	5	20	ž	4	312
0.07411+ (.07411+	4-1:00-20-	-	0 + 4 37 20 +	4 2 47075	1	6 5407034	4-7+24/00-	~	20	2	1	777
0,40/14+	4-1,42100-	Ľ.	0.20002+	4 3.030/2=	2	0,71014+	4 2.204//*	2	20	2	1	333
6.52080+	4-4,01030-	Ĵ,	6.52552+	4-4.20654-	- 2	6.53000+	4-7.59638-	2	28	3	1	334
6,53920+	4-6.69390-	5	6,54986+	4-1.70046-	1	6,55918+	4-2,47297-	1	28	3	1	335
6.57286+	4-2,99466-	1	6,5929/+	4-3.19408-	1	6.62250+	4=3.21266=	1	28	3	1	336
6.73752+	4=3.18707=	4	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-	ï	7.12997+	4=3.14743=	1	7.13014+	4-3.49283-	1	28	3	1	339
7.13021+	4-3 42967-	5	7.13031+	4-3.38238-	1	7.13045+	4-3.34145-	Ŧ	28	3	ĩ	34 0
7 131474	1-7 32469-	÷	7 14088	4-7 25107-	-	7 570404	4-1 08570-	4	້ວຄ	ž	4	344
7 60404	4 0 03100		7 602004	4-7 00404	-	7.207174	4 7 00//2-	+	20	÷.	1	740
7,20094+	4-2.70/00-	+	1.39393+	4-3.00120-	1	/.29200+	4-3.02000-	1	20	3	, T	342
7,60000+	4-3,1008/-	÷.	/.60889+	4-3.10012-	1	7.70343+	4=3.93110=	1	28	5	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-	7	6.66591+	4 2.55617-	1	8.67679+	4 3.77910-	1	28	3	4	347
9 49 4⊃n⊥	A A 20027-	î.	8 620251	4 7 04750_	4	9 602694	A 3 30045-	÷.	24	ž	4	210
0:00-20-	4 4 270274	+	0.007204	4 3,90300-	1	0.072004		T	20	3	+	740
8.70000+	4 2,23482-	4	8,70/32+	4 2,10109-	1	8./10/5+	4 1.42190-	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	d.77358+	4-3.25367-	1	8,80809+	4-2,91575-	1	28	3	1	351
8.85978+	4-2.51524-	Ŧ	6.87642+	4-2.39818-	1	8.94029+	4-2,01838-	1	28	3	1	352
9.04267+	4-1.42516-	1	7.10401+	4-1.02102-	1	9.18804+	4-4.05020-	2	28	3	1	353
9.203394	4=3.01530=	2	3.27241+	4-1.20440-	2	9.297184	4-2.38416-	5	28	3	Ĩ	354
0.34277+	4-4.16720-	2	9.35000-	4=3.07170-	5	0.407274	4-2.07720-	5	28	3	-	365
7 JUTE//4	4 7 030Er	6. 13			6	7.742027	4 4 74EAA	4	20	3	4	355
7 + 42/27+ 0 50777	4 4 70770	5	7120/924	7-1+20712*	1	7+71/47+	4=1,347U1=	1	20	3	I	320
y. 77/35+	4-1.35//9-	÷	7.77907+	H=1.34/30=	1	y.05067+	4=1,00203=	1	20	3	1	357
9.09685+	4-4,28500-	2	9.74894+	4 7.52170-	2	9.75550+	4 9,65090-	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

A 17/4P				0.047.77			-					~ ~	-	-	
9,03015	+ 4	3,9995/	- 1	9.843//	+ 4	3.4280/	- 1	9,86000	+ 4	2,45653	- 1	28	5	1	360
9.8/023	+ 4	2,53461	- 1	9.88ú86	+ 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
.10000F	0.6	.60040F	01	.10104F	n6	.58500E	01	.10200F	06	49500F	01	28	3	1	364
10370E	0.6	3050-16	61	10400E	0.6	362005	01	10600E	6.4	320085	01	28	3	-	365
114505	00	207072	0.4	104000	0.4	105605	04	107005	0.0	304000	01	20	ž	*	744
10000E	00	40700E	01	100705	00	+30200E	11	,10700E	00	.004005	01	20	3	L	300
111/2UE	UD	+2/9UE	01	.100/06	00	133/2E	Ue	.10910E	05	10050E	02	20	2	1	367
.11000E	06	,17300E	-02	.110106	06	.16080E	02	,11070E	06	128276	02	28	3	1	368
.11100E	06	11200E	- 02	,11170E	06	.85400E	01	.11200E	06	,74000E	01	28	3	1	369
.11300E	06	.6380UE	01	.114005	06	.58000E	01	.11470E	06	.54850E	01	28	3	1	370
.11570E	0.6	50350F	01	11.60 DE	06	490 a0E	01	.11670E	0.6	469256	01	28	3	1	371
.11800F	0.6	40500F	01	120006	06	36000E	01	120206	0.6	354805	ñ.	28	3	-	372
42120E	04	3199615	0.7	122005	0.6	308006	0.1	123005	04	300005	01	29	Ť	-	777
437000	00	-020000	04	12200C	0.6	27000E	04	104000	0.0	304005	01	20	7	-	794
+12320E	00	.3212UE	U1	1240UE	00	.3/00UE	01	+12420E	00	+34900E	01	20	2	1	3/4
12000E	06	.5000UE	01	.125208	00	.5400JE	01	.12550E	Uð	.0000E	01	28	\$	1	375
.12600E	06	\$050UE	01	.12760E	06	.40800E	31	.12720E	06	.39947E	01	28	3	1	376
.12820E	06	35680E	61	.13000E	65	,28000E	01	,13020E	06	.27433E	61	28	3	1	377
.13120E	06	.24600E	01	.13300E	06	,19500E	01	.13320E	Ĉó	.19500F	01	28	3	1	378
13500F	06	19500F	01	13520E	06	.19920E	01	.13600E	86	21600F	01	28	3	1	379
136205	04	272405	6.1	137505	06	314405	6.4	138005	0.6	390005	64	20	2	-	360
+ 1620E	00	1202702		1707200	0.0	475400	01	140000	00	430002	01	20	2	1	300
1302UE	00	.41000E	0	139705	00	.032002	61	1149002	00	.000000	01	20	3	1	381
.14020E	06	,70620E	01	,14100E	00	.78100E	01	.1420UE	06	.80000E	01	28	5	1	382
,14300E	06	.12600E	02	.14359E	96	.1160DE	02	+14420E	06	.10480E	02	28	3	1	393
.1450GE	66	92000E	01	.14620E	06	,764005	91	.14700E	06	,66000E	01	28	3	1	384
.14920E	96	.51333E	01	,15000E	06	.46000E	01	.15020E	06	.44933E	01	28	3	1	385
15300E	0.6	.30000E	01	.15320E	06	.28800E	01	.15400E	06	.24000F	01	28	3	1	386
155006	0.6	220006	01	15600E	06	32000E	01	15670E	0.6	551005	01	28	ž		387
167606	21	45000E	01	150000	0.6	970005	0.1	169705	04	026002	64	20	7	4	700/
160006	04	05000E	6.4	440005	0.6	04000C	01	160705	0.0	909000	01	20	7	÷.	300
1/0000	00	199000E	01	10000E	00	170005	01	100/05	00	*090UVE	01	20	2	1	389
1020UE	00	.82000E	u1	.102/UE	00	.//OUUE	61	.104UUE	00	./00000	01	28	5	1	399
.1657QE	30	.61500E	01	.1660UE	05	.60000E	01	.16770E	06	,53285E	01	28	3	1	391
,16800E	06	,52100E	Ű1	,16900E	06	.52000E	01	.1700DE	06	,54800E	01	28	3	1	392
.17100E	06	57600E	Ú1	17200E	06	.56000E	01	.17500E		.47E00E	01	28	3	1	393
.18000E	06	36000E	01	.18300E	06	.4367úE	01	.18380E	uб	27850E	01	28	3	1	394
18440F	86	44780E	01	18650E	16	32570F	01	1874NE	06	47680F	24	28	3	1	395
185605	0.6	36140E	01	190005	0.6	35533E	01	19010E	06	354905	01	28	3	-	306
106805	D 4	205205	04	100005	0.6	114000		402605	04	147705	01	20	ž	-	207
.19000E	00	3492UE	01	192205	00	110000	02	+1920UE	00	+11//UE	02	20	3	1	341
1430UE	00	.8484UE	01	199105	00	.404502	01	+19980E	00	,30000E	01	28	3	1	398
1967GE	06	40870E	01	,19750E	60	.57060E	01	.19800E	06	,6466DE	01	28	3	1	399
,19810E	06	.66160E	01	,19900E~	-06	.48460E	01	,20280E	06	.23610E	01	28	3	1	400
20490E	96	,44640E	61	,20500E	06	47929E	01	,20600E	06	.75823E	01	28	3	í	401
20650E	06	.94270E	01	.20730E	05	.13510E	02	.208005	06	.97060E	01	28	3	1	462
20970F	0.6	10320F	02	.21000F	06	.10271F	02	21160F	06	106105	02	28	3	5	403
214805	ñ4	771465	04 04	215405	0.4	830405	N 1	214005	٥ <u>.</u>	80224E	ñ.	29	ž	-	404
216605	0 4 N 4	04030E	01	217605	0.5 n.4	702305	04	210205	0 U U	54440r	01	20	7	4	405
220205	00	. YOYJUE	0 T U	.21/300	00	1022UE	01	•2195UC	00	.2001VE	01	20	2	1	402
.22000E	00	.030225	01	.22070E	00	,/32108	101	.221002	00	,7204UE	01	20	2	1	400
22400E	06	.40210E	01	.22500E	60	34947E	01	.22560E	06	•31790E	01	28	3	1	407
22830E	06	15190E	01	,23010E	96	,18420E	01	,23200E	06	,45134E	01	28	3	1	408
23260E	06	53570E	01	,2345DE	Û 6	,97480E	01	.23650E	06	,93880E	01	28	3	1	409
24000E	06	73409E	01	.24080E	0ó	.68730E	01	.2426DE	06	.72850F	01	28	3	1	410
24410E	0.6	5716CF	01	24600F	06	.70540F	01	24710F	86	.61460F	n 1	28	3	1	411
247705	0.6	6241DE	01	251005	66	442605	ñ1	252005	0.6	427225	04	28	ž	1	412
25476E	D.A	1020102	ñ.	265000	06	41074	D4	254205	04	556000	04	20	ž	4	716
067005	00	4000/05	04	1299000	00	474000	04	,270205	00	1700VE	04	20	3	T T	410
27/UUE	06	.403BUE	U1	22/90E	00	.0309UE	U1	,2200UE	00	.03737E	01	58	5	1	414
25870E	U 6	.6567€E	61	.26200E	06	.46970E	01	.26460E	05	,34120E	01	28	3	1	415
26590E	06	.34010£	ü1	,26600E	06	.33394E	01	.26700E	06	.27230E	C1	28	3	1	416
,26720E	06	.16790E	Ç1	,26809E	ქ რ	.17050E	01	.26870E	06	.23200E	01	28	3	1	417
26930E	06	19690E	01	27136E	06	22980E	01	,27200E	06	38993E	01	28	3	1	418
27340F	0.6	71020F	61	.27440E	06	82640F	n 1	27500F	06	.79165F	01	28	3	4	410

and the second secon

.275608	06	.755966	61	.27600E	66	.73279E	61	.27750E	<u> 96</u>	.64240F	01	28	3	1	426
279206	06	80890-	61	27891F	66	53540F	01	280805	0.6	217005	ni	28	ĩ	1	421
	0.6	71430F	61	262006	.16	040805		284665		750300	64	26	ž	ĩ	422
244105	06	762000	11	267305	04	505100	- m =	200706	04	793000	04	29	ž	-	437
200406	0.4	LU7765	6.4	201 765	4.5	25430E	0.0	202000	00		U L	20	3	-	474
1270406	16	109370°=	6.4	201005	00	- 32030E	9 L	.4 72002	00	1772020	01	20	3	-	406
1242008	40	, 3784UE	61	,2900WE	00	.70/206	U 1	.290UUE	00	17011200E	UI.	20	3	1	427
. 2 784UE	00	.5000UE	11	.JUUUUE	Ű¢	.40110E	W 1	.30130E	80	6-2960E	31	28	3	l	62.0
.30200E	96	.410755	61	.30270E	@ 6	.39190E	01	.30400E	06	.22610F	01	28	3	1	427
.30500E	Ű6	.3194CE	C1	.305a0E	06	.6439DE	01	.30680E	06	.65980E	01	- 28	3	1	428
.5080E	06	.47390E	61	.30980E	06	.38600E	01	.31060E	06	.45400E	01	28	3	1	429
,31140E	06	.40340E	61	.31240E	w6	.439305	61	.31400E	06	.35199F	01	28	3	1	430
.31450E	05	32470E	61	.31500E	00	.32189E	01	.31530E	06	.320205	01	28	3	1	431
. 51720F	06	4973CE	61	31860E	ിര്	42650F	61	.32120F	06	220405	R 1	28	3	1	432
(235.05	04	132705	6.4	304205	66	178305	n 1	1264 00	04	540300	n •	28	Ť	-	477
\$2660C	0.0	474300	1:3	307765	~	252405	60 mili.	300COLUE	00	4254cc	64	20	ž	-	434
1020000	00	30746UE	64	12//UE	00	1/222000	21	10207VE	00	10490US	01		3	-	434
.329000	00	./044UE	01	.3300000	00	.000135	11	.3312UE	00	244502UE	U I	20	3	1	437
.03000E	UC	4/5/UE	- 61	.33379E	ູນອ	,5024UE	U I	.3340UE	00	./407UE	UI.	60	ై	1	430
-3590E	06	.49240E	61	.33710E	06	.36010E	01	,33820E	06	.40160E	01	28	3	1	437
133940E	05	.48720E	61	.34170E	06	.48390E	01	.34290E	06	.56070E	C 1	28	3	1	438
.34470E	06	44300E	11	.34590E	06	.40810E	01	.346008	60	.37846E	61	28	3	1	439
.34740E	0.5	.26350E	61	.34380E	06	.2636GE	01	.35200E	06	.64260F	01	-28	3	1	440
. 55390E	86	.51100E	01	.35610E	96	.39220E	61	.35710E	06	.4965CE	01	28	3	1	441
35790F	06	.69110F	61	.35860E	56	.60980E	61	.35960E	06	.81960F	01	26	3	1	442
10000E	06	779356	61	361205	96	498605	61	36000E	64	416204	a 1	28	ž	-	443
4-460C	04	4/070/E	54	344505	116	177742	04	ZAGADE	00	754700	04 04	20	-	4	
1303906	00	1464106	101	.300500	00	.30/300	Щ. С. А.	,3034UE	50	13307UE	01	20	3	1	444
13/000E	00	134642E		.3/1302	00	+341/UE	UI	.3/200E	UO	, 32//YE	01	20	3]	947
, /450E	06	-27810E	01	.3755UE	00	-24600E	01	.37740E	00	•41529E	61	28	3	1	445
.:/850E	06	,5387UE	61	.37990E	66	49870E	31	,38000E	06	.49226E	01	23	3	1	447
.3c180E	06	37640E	61	38260E	36	.29120E	01	,38400E	06	.43110E	01	- 28	3	1	- 448
,38620E	06	.33060E	(1	.38790E	66	,3119GE	01	.38930E	66	.28460E	01	28	3	1	449
.39110E	06	.34430E	01	.39220E	<u>6</u> 6	.25200E	C 1	39450E	06	.27360F	01	28	3	1	450
. 57540E	06	4924CE	61	.39630E	ú6	.4108GE	01	.39740E	06	.5578CE	01	28	3	1	451
. 39890E	06	.31270E	£1	.40000E	66	.284146	91	40190E	06	23480E	01	28	3	1	452
40580F	06	19770E	61	40880E	60	-14360E	61	41000E	06	.19240F	01	28	3	1	453
411605	06	100205	61	414006	06	150805	64	416200	20	374405	04	28	ž	4	454
41760E	00	1107905	1.1	410405	04	1222000	04	420205	04	433300	04	20	ž	4	454 ALE
141/2UE	00	13350VE	04	10000F	00	-4022UE	01	40664C	00	14223UE	V1	20	-	-	422
*4210UE	00	,1/5/UE	14	.422908	10	.1009UE	92	-27702	UO	.71030	01	20	2	1	470
	06	.6071UE	61	42740E	35	.30890E	61	4278DE	06	.31350E	01	28	2	1	457
. 287DE	66	.51110E	61	,4294UE	60	.6240CE	61	43000E	06	•59202E	01	28	3	1	455
,43C70E	96	.55470E	(1	,43146E	ÇQ	.52640E	01	.43300E	06	∎55545E	01	28	3	1	459
,43400E	C6	.57366E	61	.43500E	ũ6	.71750E	01	,43640E	06	,64020E	01	28	3	1	466
,43740E	06	.532CCE	[1	.43840E	96	.63600E	61	43940E	96	.607602	61	28	3	1	461
.44010E	06	5236DE	61	44180E	66	.44250E	91	44250E	06	.47750E	01	28	3	1	462
44390F	06	4481CF	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	.44560E	6	42270E	a1	44770E	0.6	42590F	01	28	3	1	463
44950E	<u>.</u>	49590F	61	45000F	<u>n6</u>	46402E	01	45160E	ñĂ	44600F	M 1	28	3	1	464
452705	0.6	301865	61	453705	n.6	204705	01	414405	0.6	227205	61	28	ā.	ĩ	465
456400	04	44 340C	14	457785	06	407406	04	450405	04	54020C	04	20	7	-	407
4200UE	00	,012*UE	61	47/305	00	100340E	91	,4004UE	00	•21228E	01	20	3	1	70D
,45910E	06	.0000nF	11	.4000UE	96	,4920UE	31	.40130E	06	.2/55UE	01	28	3	1	467
.40210E	06	.33800E	61	.46320E	60	.59900E	01	,4646CE	06	.53220E	01	28	3	1	468
,40650E	06	.45680E	61	.46370E	06	,45420E	61	.47020E	06	.35260E	01	28	3	1	469
.47100E	06	44620E	C1	.47210E	86	.44090E	02	,47400E	96	,39690E	01	28	3	1	470
,47630E	06	52320E	61	.478305	96	.34920E	91	,4794DE	06	.36250E	01	28	3	1	471
100Fز 4.	06	.30540E	ũ1	.483002	96	29227E	01	48490E	06	.27960F	01	28	3	2	472
40570F	0.6	28980F	61	46730F	06	42980F	01	48810F	06	40890F	01	28	3	1	473
- 40970E	06	29420F	<u>ú1</u>	49210F	n6	41480F	a 1	493305	06	-38620F	01	28	3	ĩ	474
494905	0.6	171905	61	49570F	16	212005	61	49660E	0.6	484105	n 1	28	3	1	475
408205	0.4	451506	ñ.	400n0E	66	2061 nC	94	400000	n 4	109100	64	20	2	4	474
50010E	00	497100	04 04	60440E	00	*******	N4	-770VE	00	427000	01	60	5		477
-20010E	00	-2300E	UI.	*20TONE	UD OC	. +3+UUE	UI	-70270E	00	.73/UUE	U1	20	2	1	-//
,20340E	00	,400UE	UI	,20400E	00	.40200E	01	,20240E	U6	. 39 30 DE	01	20	5	1	478
.50630E	06	29500E	ΰl	.5u720E	66	.31600E	Ű1	.50790E	06	•>1900E	01	28	3	1	479
				-											

.>U820E	30	.54166E	61	.50076E	06	.54700E	31	.50890E	86	.5793CE	01	28	3	1	480
5.930E	0é	.40900e	- cī	50960E	06	44008E	11	.51000E	06	.4598CE	01	28	3	1	481
.51630£	90	487006	01	.51680F	- 16	58900E	01	.51140F	36	48900F	01	28	3	1	482
51170E	06	46.5004	61	.51240E	0.6	4950.16	61	.51310F	0.6	59900F	n1	28	3	1	483
.51370E	0 é	457000	6.1	514766	66	368035	51	514006	0.4	354005	64	28	3	-	484
-51560F	0.6	301065	1	516005	06	455905		514305	04	416005	64	28	ž	÷	485
614000	0.0	374666	- 7 4	5174CC	0.4	143000	- U 4 - C 4	518000	04	195605	01	28	ž	÷	496
1070E	00	.3/00CE	01	-21/4UE	00	, 34200E	01	1910000	00	347005		20	3	-	407
*21020E	0.0	,30506E	-01	.51 -20E	-10	,22000E	31	.5190UE	00	.24300E	01	20	3	1	467
.22050E	06	,24000E	-61	.52140£	-96	.25700E	61	.52210E	06	.5550bF	01	28	5	1	468
.52220E	06	,236C0E	ΰ1	.52320E	60	.34500E	ŭ1	.5236QE	06	,505008	01	28	3	1	489
,52430E	Ũ6	.540006	01	.5249CE	36	.486üüE	01	,52540E	Ç6	.40500E	01	28	3	1	490
12630E	06	.3490CE	01	.52690E	06	,34900E	61	,52760E	06	.42500E	61	28	3	1	491
\$2780E	0 2	47500E	61	.52840E	ú 6	.48700E	n1	.52910E	06	.4780GE	61	28	3	1	492
52990E	36	521066	01	.53::00E	.16	.51593F	11	.53130E	86	.45000#	ถ1	26	3	1	493
53210F	0.4	41500F	61	5330CE	26	.396576	61	53420E	0.6	372005	01	28	3	1	494
- 36605	0.6	3496.00	01	537204	36	35300L	61	6332665	0.4	367002		28	ž	-	405
548505	0.0	340102	64	6307200	66	112000	6.4	540205	0.0	264005	N 1	26	ž	4	404
*10×05	00	303000	6.4	EA+ 205	00	10600L	24	54140E	00	24000e	01	20	1	-	207
.9406UC	10	JUZULE	01	1201202	00	. 379005	01	,791005	- UC		01	20	3	1	405
.3427UE	06	,39500E	10	,5435UE	30	.349002	101	,24490E	UC.	.JIOUUE	01	20	3	1	446
•54700E	06	.273uCE	61	,5490CE	Ĵ6	.25109E	91	,54980E	06	.24100E	01	28	3	1	499
.55070E	05	.20800E	61	,55136É	60	.21000E	91	,55250E	06	.24800E	01	28	3	1	500
,55310E	06	,30100E	61	.55370E	96	.4040GE	61	.55410E	06	.4830CE	01	28	3	1	501
,55470E	06	.520C0E	61	.55510E	06	,45100F	01	,55590E	06	.34706E	01	28	3	1	502
-25650E	06	296LGE	61	.55730E	06	.240GDE	91	55810E	06	.19709E	01	28	3	1	533
.55670F	0.6	1960CF	61	.5591DF	56	254005	61	.55950F	0.6	345005	ñ1	28	3	4	504
. Shaane	0.6	414004	01	560306	ΠA.	430005	31	56040E	0.6	316000	01	28	ž	1	505
54150C	34	344000	64	542505	56	486005		543400	0.0	473005	0.4	20	ī	-	504
	0.0	177000	01	- JOZOVE	10	198005	01	, JOJOUE	00	255000	01	20	3	-	505
1/1400E	00	-1/3002	04	. 50560E	04	10000E	01	- 20/1UC	00	107002	01	20	3	1	507
150770E	10	,STILCE	01	DOCYLE	00	, 3920UE	11	, 7097UE	00	.307000	01	20	2	1	205
.5/040E	Û6	,4060UE	61	.572550	ປ ີ	.440GUE	91	,5/310E	06	4590UE	01	28	3	1	209
. 7370E	05	.46700E	61	.57430E	Q 6	.45500E	91	,57500E	96	,5050CE	01	28	3	1	510
.57540E	66	,5750UE	61	,5756CE	36	.59100E	61	,576DDE	96	.51700E	01	28	3	1	511
.57670E	06	.45800E	G1	.5770CE	06	,43850E	61	,57730E	06	.41900E	01	28	3	1	512
. >7790E	06	.41000E	61	.57340E	06	,41800E	21	,57900E	96	.36700E	C1	28	3	1	513
.5501DE	0.5	.322005	61	.56070E	0 6	.30100E	01	58130E	06	.30700E	01	28	3	1	514
58220E	Û A	351006	r 1	58310F	06	.30200F	a1	58390F	06	25200F	01	28	3	1	515
- 33460E	0.6	250005	61	58500E	0.6	26601.5	01	585405	0.6	-22630E	04	28	3	1	514
130400E	0.0	100000	6.1	594705	04	109 200		597405	04	224000	04 04	20	2	-	647
	34	463066	6.4	50070L	0.0	270000	04	\$ 3074UE	00	319000		20	1	-	640
- 20000E	00	-19300E	01	1 200/UE	00	.207000	01	, 2093UE	00	,33000E	21	20	3	1	210
JYDUUE	00	AUYUUE	61	.790406	10	-1700E	UI	,7911UE	00	104200E	11	20	2	1	719
.59150E	ü6	,35900E	C1	5924UE	06	.20100E	41	,59330E	06	,21100E	10	20	2	1	520
.59420E	06	,18700E	01	.59460E	06	.18200E	01	,59530E	05	.2060DE	01	28	5	1	521
.59550E	05	,21100E	01	.59590E	U6	,21000E	01	.59660E	06	,21200E	01	28	3	1	522
. 29730E	06	.1900CE	01	.59790E	06	.13300E	61	.59890E	06	,1460GE	01	28	3	1	523
.60000E	06	18900E	61	.60060E	06	.257008	61	.60110E	96	,3390CE	01	28	3	1	524
.60130E	06	36000E	01	.60180E	36	.3180CE	01	.60220E	06	.30600E	01	28	3	1	525
-61310F	0.6	390002	01	.60386F	n6	.49500E	01	.60420F	06	-52200F	01	28	3	1	526
61510E	0.6	420005	61	60560E	36	415045	01	A04105	64	448035	01	28	3	Ĩ	527
406566	0.0	520CGE	64	407000	00	54400C	04	407205	00	50100S	64	20	2	4	570
60770E	04	+ 32 YUUE	04 c4	.00/UUE	00	- 3400UE	UI.	+00/2UE	00	, J7100E	01	20	3	1	220
+00770E	00	.54100E	01	.008100	00	•21403E	31	.OUBDUE	00	,522UUF	61	20	3	1	229
.oranne	00	- 55700E	01	.CUASUE	00	.50000E	81	.00970E	UD	1248UUE	01	28	5	1	230
.51060E	06	.59900E	61	.01160E	00	.50100E	01	.61340E	06	,39800E	61	28	3	1	>31
.61480E	05	33000E	ü1	.61600E	06	.31900E	01	.61780E	06	,33200E	01	28	3	1	532
.61880E	06	.37100E	01	.6197GE	ũÓ	42700E	01	.62070E	06	,46700E	01	28	3	1	533
.62110E	06	46400E	61	,6218GE	86	40700E	01	.6225DE	06	.31600E	01	28	3	1	534
62330E	06	.29400E	61	.62420E	86	.32000E	01	.62490Ē	06	.35000E	01	28	3	1	535
.62540E	06	34300E	61	.62590E	06	.36800E	01	.62640E	96	48400E	Õ1	28	3	ĩ	536
-62680F	0.6	54260F	61	.62780E	ũ6	398005	01	62850F	06	.312005	n 1	28	3	1	537
.620000	0.A	277716	61	620305	ñ.A.	264005	114	63000E	04	236005	ň.	28	3	1	510
4 4070C	90 64	20700-	04	4349AF	04	341000	64 24	4340AF	64	4460000	01 04	20	1	4	620
.oJU/UE	V Ø	"CALONE	V.	.0VICUE	u 0	*347 <u>0</u> 05	V1	.001706	00	*******	01	20	3	1	234

.53210E	U6	,44100E	01	.6329UE	Q6	.39500E	61	.63340E	06	.32300E	81	28	3	1	540
.5380E	06	26300E	-01	.63430E	56	.29800E	L1	.63480E	06	.320006	01	28	3	1	541
.03530E	06	.34800E	01	.6358CE	06	.30800E	01	.63660F	06	.32300F	01	28	3	- ī	542
.63750E	06	.31000F	- 61	.63820E	06	37900E	11	.63950F	06	49800E	01	28	3	- ī	543
-64000F	0Å	-520006	61	.64050F	06	49300F	61	.64170E	0.6	46700E	04	28	3	1	544
- 4320E	0.6	463065	01	64520E	06	464085	0.1	645005	04	.425085	0.1	28	ž	-	5AF.
64720C	04	160006	- 114	445386	0.6	284005	34	64000C	04	462000	01	20	2	-	- 6 4 1
1077EVE	00	1339695	01	.040206	00	.300002	01	.044906	00	+7200E	01	~ C 0	3	1	240
10493UE	05	193900E	01	.07000E	40	.5/YJUE	61	.07UZUE	Ve	.777UUE	01	28	3	1	241
-05120E	06	.49900E	61	.0520UE	60	.39900E	91	.05280E	06	.3>900E	01	28	3	1	548
.52380E	06	.37900E	61	.65430E	96	42706E	31	.65450E	06	.44700E	01	28	3	1	549
.00060E	06	.358005	61	.65610E	0 6	.30600E	01	.65740E	96	.205 00E	01	28	3	1	550
.07840E	06	.1990UE	01	.65920E	69	.22500E	61	.65970E	06	.29300E	01	28	3	1	551
.56020E	06	.38900E	01	.66070E	06	.4860GE	01	,66120E	06	.48000E	01	28	3	1	552
, 55230E	06	.36700E	61	.66310E	06	.32300E	81	.66380E	06	.29700E	61	28	3	1	553
.56440E	06	30600E	01	.66510E	06	.34030E	01	.66590E	06	.25800E	01	28	3	Ĩ	554
, 56670E	06	.21100E	01	.66750E	66	.24400E	01	.66800E	06	.20600E	81	28	3	1	555
. 50880E	06	.2100DE	51	.66940E	06	.26200E	01	.67000#	06	.36475E	01	28	3	1	556
.67020F	0.6	39900F	61	67070F	06	.43100F	61	67120E	0.6	392006	01	28	3	1	557
57170E	0.6	415006	61	47250E	n 6	46030E	64	673605	0.6	.461005	64	28	ž	÷	559
.74105	00	446000	04	474305	04	600000	04	476706	0.4	477005	01	20	7	-	550
476505	04	A7800L	04	47740E	00	444605	04	+0/3/UE	04	374005	U I	20	3	1	777
178705	00	364000	04	10//4UE	00	754005	21	.D/02UE	UO 04	379740	01	20	37	1	200
10/0/0E	04	10700C	04	10/7500	00	- 3200UE	01	.000052	00	-3//20E	01	20	3	1	201
1000000	00	.403002	U1	1001/VE	ψD	.404002	101	.0027UE	UD	.30/ UE	UI.	20	3	1	202
.0000UE	00	.4190UE	01	.0841UE	υο	43200E	61	.00520E	06	.4010DE	61	- 28	3	1	563
.5000UE	06	.39800E	61	.68699E	ΰŌ	.39200E	01	.65770E	06	,36000E	01	28	3	1	564
.55850E	06	.342005	91	.68930E	06	.38800E	01	.6899DE	06	.43400E	01	28	3	1	565
.590COE	Ũ6	.44617E	01	.69050E	06	.50700E	01	.69130E	06	,43600E	-01	28	3	1	566
.09180E	66	.40500E	11	.69240E	Ü6	.40100E	31	.69300E	06	.40800E	61	- 28	3	1	567
,69380E	06	,29200E	01	,69430E	06	.25600E	01	.69490E	06	.27500E	61	- 28	3	1	568
.69570E	06	,3750UE	62	,6960CE	06	.40200E	01	.69660E	06	,330002	61	28	3	1	569
,69740E	60	.22100E	01	698G0E	60	.2020CE	61	.69860E	06	.19603E	01	28	3	1	570
,59910E	66	,29000E	01	.69970E	06	.37500E	01	.7000UE	06	.39300E	21	28	3	1	571
.70090E	06	43600E	01	.70170E	60	.48700E	01	.7025DE	0.5	.52700F	01	28	Ť.	ī	572
.70310E	06	5140UE	01	.70450E	86	.3700CE	81	.70540E	06	35100F	et	28	5	1	573
.70628E	0 é	40100E	01	706802	61	.47500E	01	.70770F	06	45400F	01	28	3	1	574
70910E	06	.31000E	0.5	.70976E	ā6	276006	61	710306	04	.274005	1	28	ž	â	575
21080E	0.6	267006	N 1	71140E	66	237045	0.1	712000	04	283065	D4	28	ž	1	576
213105	14	307005	01	713705	0.4	200000	4:1	714400	04	2050000	04	20	2	-	577
716105	0.6	227005	04	71 7205	0Å	178005	14	718705	0.0	186005	64	20	ž	4	576
71 96 05	04	235000	01	720805	0.6	122006	04	721405	04	347000	04	20	1	*	570
721005	04	1255000	0.4	700000	04	340000	01	1/21405	00	39000	01	20	2	1	5/9
176300	00	+33300E	U 🕹	17220UE	00	137900E	U1	./243UE	UD	.25000-	191	20	3	1	200
1222UE	06	.282002	01	,/20/UE	00	-31400E	01	,/2730E	06	.3190UE	01	28	3	1	261
,/200UE	05	+2750UE	01	12400E	üð	.20/5UE	01	.73000E	06	.23000E	C1	28	3	1	552
./3060E	96	.2300UE	01	.73120E	06	-25700E	61	.73180E	06	.26900E	61	28	3	1	583
./324UE	06	.21500E	01	,73300E	<u> </u>	.22600E	91	.7336DE	05	.285005	01	28	3	1	584
734202	06	•23000E	01	.73520E	06	,14500E	01	,73640E	06	.11600 E	01	28	3	1	585
73730E	Qα	.16100c	01	,73790E	06	.19500E	01	,73910E	05	.3C 30 3E	61	28	3	1	586
.7397CE	06	.26700E	01	.74030E	9 6	.2460UE	01	.74100E	06	.19500E	01	28	3	1	587
.74160E	06	.14800E	01	,74220E	05	.11900E	01	.74280E	06	.11400E	01	28	3	1	586
.74340E	06	,15000E	61	.74440E	96	.24200E	01	74500E	06	.26400E	01	28	3	1	569
.74530E	06	.22400E	01	74590E	66	.2390JE	31	.74680E	06	.23700E	61	28	3	1	590
74810F	0.5	.27900-	01	748782	86	25500F	61	74900F	06	.25900=	n1	28	3	1	561
749306	06	270002	61	740705	06	204005	0.± ₽.4	750000	04	.202505	04	20	2	*	502
750 305	0.5	201002	01	751205	0.0	361.05	01	761605	04	373004	64	20	7	4	50.
.75100	06	342005	11	753405	00 0A	.2700 aE	64	+/2120E	00	.26500E	04	20	3	+	293
754405	00	202005	01	754005	00 AA	164005	04	1/20/UE	00	41400r	04 04	20	3	4	504
747405	00	10700VE	04	-/2000E	26	4000UUE	01	17/2UE	00	476000	01	20	3	1	792
1/3/502	00	1343005	V.	+/3410E	00		01	1/0U4UE	00		11	20	3	1	296
,/02UUE	00	440UVE	U1	./033UE	00	-37/90E	01	76400E	05	,38400E	01	28	3	1	597
1/646UE	06	32100E	U1	./659UE	76	.23700E	61	,76690E	06	,15900E	01	28	3	1	598
.76750E	Ü6	,17400E	01	.76820E	05	18000E	91	.76910E	06	,27 300=	01	28	3	1	599

.70980F	06	.31500F	01	-77800F	06	.34200E	01	.77210E	06	.34860F	61	28	3	1	600
.773705	0.	356006	01	27470E		395nJE	- 31	77570E	0.6	46100E	01	28	3	1	6.0.1
7/6005	0.6	412005		77440E	26	18700E	21	.777005	06	348005	64	28	ž	÷	602
778006	00	321000		170005	06	301002	01	750105	0.0	201066	n1	29	ž	4	602
7.1000	00	13310VE	04	707 60	00	- JULCOE	0.4	704705	04	27600	04	20	1	4	404
*/STODE	00	,2/YOUE	01	./03008	00	.24/000	01	./04302	00	.2/2002	101	20	3	1	0134
.1053DE	60	.33500c	01	.78600E	96	.320005	01	.7867UE	0.6	.340G0E	Q1	26	3	1	0.02
,73740E	06	.32700E	01	,78940E	06	.35000E	61	.79040E	06	43100 £	01	- 28	3	1	606
,79140E	06	.47900é	- 61	.79210E	06	.47900E	01	.79380E	06	.35700E	01	28	3	1	607
17480E	86	.30000E	01	.79650E	06	.21700E	61	.79720E	06	.2120DF	C1	28	3	1	668
.74830F	86	23900F	01	79960E	06	.38800F	31	-60000E	0.6	42171=	P1	28	3	1	609
01.0305	40	447004	01	800705	06	46600E	61	-801405	n.	415006	6.1	28	3	-	616
- 3400	0.0	772000	04	100070E	00	761005	24	904140L	0.0	340000	64	20	ž	-	441
.0.24UE	00	.3/30UE	UL	10047UE	00	1221005	01	,000200	00	.340002	10	20	-	1	CI1
**E0A0F	06	.3480UE	01	80830E	00	.35900E	U1	.80900E	06	.39000E	61	28	3	1	015
. pi010 E	0 6	.351CUE	-01	.81120E	36	,34500E	01	.81190E	06	.32800E	61	28	3	1	613
.01290E	0 5	.34200E	01	.81400E	86	.35600E	01	.61500E	06	,258COE	01	28	3	1	614
.01650E	Ũ.O.	.19100E	01	.81790E	06	.12000E	01	.81860E	06	,137005	01	28	3	1	615
- 41930F	0.6	16906F	01	.82040E	66	24700E	31	.82110F	06	.32500F	01	28	3	1	616
21805	0	370000	01	82260E	DA.	397006	6.1	82440F	06	40608E	01	2A	3	•	617
1001000	0.5	330465	04	02540C	04	74700C	0.4	934386	04	214005	0.	20	ž	÷	440
-23UUE	UO.	.3/UDUE	01	+02340E	00	13470UE	01	.020202	00	.510002	01	20	3	1	010
.02/DUE	0.5	.3760UE	01	.8287UE	ΨD	.4300UE	31	.6302UE	06	.440005	01	28	3	1	019
.33200E	06	.42100E	91	.83270E	00	.37300E	61	.83350E	06	.38100E	C1	26	3	1	620
.33490E	60	.37900E	01	.83600E	06	,33000E	û1	.63710E	06	.37700E	01	28	3	1	621
. 33790E	06	.49700E	01	.63860E	60	.3530UE	P1	.63940E	06	.28C00E	61	28	3	1	622
94050E	06	31300E	01	.84120E	06	. 35000E	61	.34200E	06	.35560E	61	26	3	1	623
- 44230E	06	33100F	61	84350F	.16	29006F	01	.84530F	06	-36206F	01	28	3	1	624
44105	0.	330045	01	847206	26	374005	21	648306	04	454605	6.1	26	ž	-	425
- A9702	00	44000E	0.4	940405	06	14400E	24	95000C	04	117400	04	20	ž		424
134070E	00	.40000E	04	1047105	24			65000E	00	-30110E	01	20	2	1	407
. 32UZUE	96	131300E	01	.071/UC	10	.29/UUE	01	.0730VE	00	.20100+	01	20	3	1	021
,35440E	85	,33100E	01	.85480E	06	.33400E	01	.85560E	06	.31900E	01	28	3	1	626
.05630E	はら	.27000E	01	.85790E	96	.23000E	01	.85940E	06	,19400E	01	28	3	3	629
.65130E	06	.1900GE	61	.86320E	06	.16700E	51	.96400E	06	.1970CE	01	28	3	1	630
.86480E	űь	.24700E	01	-86600E	06	.31600E	31	-86640E	06	.32100F	81	28	3	1	631
467505	16	234006	01	RATINE	86	22100E	61	-86870E	86	22500F	0.1	28	3	1	632
SLOEDE	0.0	263000	01	470406	54	249686	01	97300E	04	328000	n 4	29	ž	÷	477
10072UE	00	1290000	2.4	1070000	44	1011005	24	075400	00	720005	04	20	2	4	474
.0/34UE	06	.30600E	01	.8742UE	00	.31200E	91	.8/24UE	UO.	· 2529005	01	20	3	1	034
•07770E	96	.33900F	01	.8785DE	06	.28900E	61	.879DOE	Q6	.271505	01	28	3	1	635
,⇒7930E	06	.26100E	01	.88090E	06	.24300E	81	.8817CE	96	.20000F	01	28	3	1	636
. 00210E	06	.1880DE	01	.8825CE	Ð6	,21000E	01	.68290E	06	,24900E	01	28	3	1	637
. 33370E	99	34900E	61	.88410E	06	.35100E	01	.88530E	06	.28600E	01	28	3	1	638
- 3610F	0.6	272046	01	88650E	ñ6	27460F	ii 1	.88740E	06	29700F	n1	28	3	1	639
	04	345002	01	BROODE	36	431005	64	BADBOE	0.6	500000	01	28	ž	4	640
10702UE	00	-345000	01	.009000	00	402005	1.1	10070UC	00	. JOCU00	01	20		1	6 4 6
A SYUCUE	96	20200E	01	. 8914UL	00	,422 UVE	01	+6718UE	UC.	.394006	01	20	2	1	041
SASORE	05	.41900e	Ul	.89390E	80	.38/DUE	01	.89470E	00	.30800E	01	28	3	1	042
. 19630E	06	.3710CE	01	.8967GE	0 6	.35000E	51	.8975DE	06	,32200E	01	28	3	1	643
,89830E	06	.34500E	01	.69960E	0 6	.38700E	91	.90000E	06	,41900F	01	26	3	1	644
90060E	06	.45900E	61	.90150E	06	.50200E	01	.90250E	06	.47000E	01	28	3	1	645
. 24330F	05	4090UE	01	.9045UE	06	.39000E	uİ	.90540E	06	39306F	61	28	3	1	646
94660F	0.6	413006	01	90750E	36	39100E	61	01010F	06	404005	01	28	3	Ĩ	647
01C40E	04	195000	61	012105	06	250005	14	013705	0.4	343005	01	28	ž	Â.	640
• 71040E	00	1000002	04	1715105	0.6	1007000	01	.713/UE	00	353000	01	20	7	-	640
9134UE	00	.32900E	01	ATD/AL	00	,37000E	r1	.91/DUE	00	- JJ200E	01	20	2	1	049
•91970E	Ű0	.29800E	91	, 9205UE	00	,33400E	01	.92180E	86	.32700E	01	28	3	1	050
,92350E	06	,37200E	01	.92440E	06	.38500E	91	,92520E	06	355005	01	28	3	2	651
92610E	06	28300E	01	.92740E	06	.23700E	61	.92900E	06	,19510E	01	28	3	1	652
92950E	06	.18200E	61	.93080E	06	.26800E	61	.93210E	06	.36600F	01	28	3	1	653
93260F	06	39700F	01	93350F	06	.38600F	01	934805	0é	350005	81	28	3	1	654
U 3650E	04	155005	01	937-0F	06	36600E	6.5	93830F	<u> </u>	376005	01	2A	3	ī	655
47002VE	00	100000	04	040405	0×	30400E	04	04+20-	n4	240000	04	20	ž	-	664
* A2AT0F	00	,35200E	01	.74008	00	1270UUE	U1	,7413UE	00	4200UUE	61	20	3	1	070
,94270E	96	.3300DE	C1	,94350E	06	.30800E	01	.94490E	65	.34UDUF	U1	28	3	1	857
\$4580E	06	.34300E	01	.94750E	06	.30000E	31	.9498DE	06	,24100E	01	28	3	1	658
.95000E	66	.23989E	61	.95160E	06	,23100E	01	•95250E	06	,26200E	01	28	3	1	65'

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.75380E	06	.332006	-01	.95470E	66	.35000E	61	.95610E	06	.30500E	01	28	- 3	1	660
.95790E	06	.28500E	61	.9588NE	06	.31200E	n1	.95970E	06	.37400F	01	28	3	1	661
340405	06	394005	0.1	042405	06	134005	04	964205	06	273005	04	28	ž	1	662
1/5000E	00	204000		,,,,,,,,,	0.4	303000	01	047405	30	205000		20		-	447
,905IUE	00	129100E	61	,900105	00	. 30200E	01	.90/4UE	00	.302006	01	20	3	1	003
.9585DE	06	,32400E	01	.97020E	90	.25900E	01	.97160E	06	.22700F	01	- 28	3	1	664
.y7340E	06	.25500E	61	.97480E	06	.23900E	01	.97620E	06	.256006	01	28	3	1	665
37610E	0.6	201005	1	07000E	06	37700F	0.1	980005	0.6	437066	0.1	- ŻA	3	1	664
1 / VAUL		1271000		, , , , , , , , , , , , , , , , , , , ,	00	100000		,,,,,,,,		707000		20	ž		
1 AGOADE	0.0	+43500E	61	.981605	00	,40000E	01	*A0250E	00	.34300F	01	20	3	1	007
,95510E	06	.31500E	01	,98700E	06	.26000E	C1	.98800E	06	.27700E	01	26	3	1	668
,98940E	06	.35000E	C1	.99030E	96	.3630GE	01	.99130E	06	.34700₽	01	28	3	1	669
. VV270F	06	31500F	01	9951 IF	06	.30200F	01	99700F	06	28500F	64	28	3	1	670
108605	õ,	754000	24	000405	34	740000		000005	04	344000		20	ž	-	4 7 4
17702UE	00	13240UE	U.	,999400	*0	. 30YUUE	UT.	.979905	00	1044006	U1	20	3	1	0/1
.10000E	07	,33509E	-61	,1062CE	G7	,2970UE	01	10040E	07	,316COE	01	28	3	1	672
.10060E	07	.27200E	01	.10080E	37	.35000E	01	.10130E	07	.25100E	01	28	3	1	673
1.1506	n 7	283002	61	10160E	07	30900E	01	101805	07	22000F	01	28	3	1	674
1 2005	0.7	240000		102205	37	191005	0.4	102605	07	110000		20	ž		475
1 2000		123400E		+102200		101002	01	102000	07	.037006	01	20	2	1	
, LUZYUE	Ų/	.350VEE	υ1	1032VE	0/	.243UUE	01	.10330E	07	.24200E	υ1	28	5	1	676
.10350E	07	.29400E	-01	.10390E	07	.31400E	01	.10400E	07	+27467E	01	28	3	1	677
.10410F	07	255000	(1	10430E	07	.31500E	01	.10440F	07	.4160: E	01	28	3	1	678
104605	0.7	74400	01	106005	67	245000	01	105205	0.7	346000		20	ž	-	440
105505	07	10000	CT	105906		.200002	01	105205		.010000	01	20	3	1	0/9
*10220F	U /	192001	U1	.1057CE	0/	.21900E	01	,10290E	0/	.200v0E	01	28	3	1	690
.lucioe	07	,31800E	61	,10630E	07	.33900E	01	.10670E	07	,2130CE	01	28	3	1	681
.10700E	07	.2350CE	Ú1	.10730E	07	.31200E	ú1	.10750E	07	.24600E	01	28	3	1	682
1. 7695	07	213006	61	10700F	ñ7	318005	01	108105	07	372005	01	28	3	4	697
9700		470000		100/000		276000	04	100100	~ ~ ~	747000		20	-	-	000
1100UE	07	.4000UE	LT.	10000C	0/	13/0002	01	, TUGANE	0/	.303007	91	20	3	T	004
1,930E	07	,19506E	61	,10960E	97.	.19600E	91	,10980E	07	.25700E	01	28	3	1	685
.11000E	07	.30233E	61	.11v10E	37	.32500E	91	,11040E	07	,29100E	01	26	3	1	686
.11050E	07	.30583E	(1	.11100E	37	.38000E	91	.11120E	07	.359005	01	28	3	1	687
111405	0.7	411006	61	111905	a 7	202005	0.1	112105	07	214005	04	20	7	-	460
112405	×.		1.1	.111005		1277.000	OT.	PITETOE	0/	1210000	UI	C 0	3	-	000
,11240E	U 7	.28400E	13	.11280E	07	.100UUE	61	.11310E	07	,281JUE	01	28	5	1	669
,11350E	07	.3140CE	61	1139CE	ŋ7	.21790E	01	.11390E	07	.19800F	01	28	3	1	690
.114002	07	.23700E	11	.11430E	d 7	.37600E	01	11450E	07	.37000F	01	28	3	1	691
114806	07	32-005	6.4	115006	07	36500E	61	115205	07	377005	01	28	ž	ĩ	602
115405	0.7	40000	7.4	446465	~ 7	441605	04	11/200	~ ~	333000	01	20	ž	-	4072
*11240E	07	1429ULE	64	11200C		*0100E	01	*TTOUDE	07	.322008	01	20	3	1	047
.11630E	07	.3510CE	U1	,11660E	07	.405002	Ú1	.11680E	07	,3530 0E	01	28	3	1	694
.1.700E	07	.41700E	61	.11720E	ŋ7	.41000E	01	.11740E	07	.276005	01	28	3	1	695
11770E	07	174006	61	1179RF	07	.22406F	01	118006	07	249005	01	28	3	1	606
118200	ă.,	254005	6.4	11 32 05	37	200000	04	110000	0. ,	11700		20	ž	-	407
.116206	0/	129900E	10	1100UE		130000E	01	.110405	07	1017004	01	20	3	1	091
,1192UE	07	.304UUE	01	.11940E	37	.3376UE	91	.11970E	07	.25/UUe	91	28	5	1	698
.11990E	07	.26900E	61	,12000E	ü7	.273JUE	J1	.12020E	07	.29200E	01	28	3	1	699
.12050E	07	.30800F	C 1	120 ADE	67	.28900E	01	.12100F	07	.33900F	6.1	28	3	1	700
121205	07	301605	5.1	12130E	07	301006	61	121505	0.7	340005	a .	28	ī	÷	704
1463696	07 0-	+DOTIONE	C 4	* 75 TOUL		222002	01	120100	07	42240	0 T	20	2	4	101
AICI/UE	0/	.2/4UUE	41	.1219UC	0/	-333UUE	UL	.1221UE	U/	22005	UI.	20	2	1	105
.12220E	Q7	,432CUE	ί1	,1224CE	C /	.380CGE	31	12260E	07	42500E	01	28	3	1	703
,12270E	07	4620CE	01	.12280E	07	,45000E	01	,12290E	07	.39200E	01	28	3	1	704
.12300F	07	.31700F	61	.12320E	27	.25000F	01	.12340E	07	.26400F	01	28	3	1	705
123505	07	345000	64	121405	07	104045	04	122705	07	424000	ñ-	20	ĩ	-	70/
.123305	0/	131200C	UT.	123005		1370000	31	.123/02	0/	4920005	01	20	2	1	/00
12380E	07	4250VE	(1	.12390E	J/	*28900F	01	12410E	07	.3380UE	01	- 28	5	1	707
,12430E	07	.26400E	61	.12450E	97	.28000E	91	.12470E	37	,30200E	91	28	3	1	708
12490E	07	305068	01	.12510E	07	.359008	01	12520E	07	.37609E	61	28	3	1	709
125405	6.7	120004	r.	125006	07	34000E	04	124005	07	320670	0.4	28	ĩ	4	710
1227906	27	132900E		+12/00L		364000	01	4120000	0/	1100/E	24	20	3	-	710
12010E	ų7	,31100E	ĻΙ	.12030E	07	.3240UE	01	,120508	U7	.3/20UE	01	28	3	1	/11
,12670E	07	.33500E	01	.12690E	07	.28900E	01	.12700E	J7	.26500E	C 1	28	3	1	712
.12720E	07	.339005	C1	.12740E	07	.39800E	01	.12760F	07	.37000F	61	28	3	1	713
127705	0.7	312606	61	12780F	c.7	27800F	a -	128005	07	353006	ñ.1	28	3	ī	714
176105	0.7	300005	n 4	120405		795005	0 I 0 V	124600	07	176774	04	20	ž	-	745
.120106	47	JAAAAAA	U L	.120405		.309002	UL.	.120708	0/	107903E	UI.	20	2	1	/17
12870E	07	.35600E	61	1289CÉ	07	.43200E	91	.12910E	Q7	.48490E	01	28	3	1	716
12930E	07	,50500E	01	12950E	07	.46600E	01	,12960E	07	40600E	01	28	3	1	717
129905	07	30700F	61	13000F	n 7	.3330nF	01	13820F	07	352005	01	2A	3	1	718
1 (0505	07	340605	N1	130205	17	330065	ñ 4	431105	07	340000	4	20	ž		740
*19620E	U /	. 3400VE	0 I	*T3000E		* 22 AR OF	0 T	*TOTING	07	• 0 • 70 0 E	01	20	3	I	119
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131406	07	303055	C 1	131406	07	436005	01	131066	07	443065	0.1	26	٦	+	726
120100	07	379000		131005		, 43000E	01	1101705		770000	01		ž	-	704
.1321UE	07	.3500vE	Q1	•13230E	ų7	.31600E	01	,13260E	07	·2/2005	01	25	3	1	171
,13280E	07	.35400E	01	.13290E	Ŋ7	,35700E	01	,13300E	07	,39800E	01	- 28	3	1	722
.13320E	07	42960E	61	.13350E	07	.34703E	01	.13380E	07	.32:00E	01	28	3	1	723
.13390F	07	32567-	61	13468F	07	32533F	11	.13410F	07	325 10F	01	28	3	1	724
1 44405	07	407665		434606	7	420006		134705	07	4226.00		20	ž	-	725
1134405	0/	03002	- 04	134505	97	27005	01	134/02		1722095	01	20		1	769
+13490E	0/	,4640CE	01	13530E	07	,44000E	01	13550E	07	.37867E	01	20	5	1	/26
.13560E	07	.34800E	01	.13590E	07	,28109E	C1	.1360CE	07	.27125E	01	28	3	1	727
.13630E	07	24266F	ú1	.13650F	n7	22000E	01	.13670F	07	.25600F	01	28	3	1	728
13690E	07	337006	01	137966	a 7	38300F	01	137206	07	352005	01	28	3	-	729
127/00	67	73/000		139666		200000	1.4	1177200	~ 7	344000		20	ž	-	770
1274UE	07	, SHOULE	01	.13/5UE	07	.34200E	01	.13/605	0/	.30500E	21	20	3	1	/30
,13810E	07	.379CDE	61	,13840E	07	.36000E	01	,13860t	07	.2870UE	01	28	\$	1	731
.13880E	07	.280000	61	.13890E	07	.31300E	01	.13910E	07	.33000E	01	28	3	1	732
13960F	0.7	22300F	6.1	13980F	07	2420UE	01	13490F	07	282005	01	28	3	1	733
140005	07	303005	04	140205	07	314005	6.4	140505	n 7	262005	04	20	ž	-	734
140405		.000002		140200	07	300000	21	140506	0,	274000		20	-	+	7.54
.1400UE	07	.2020CE	01	.140802	07	.320005	01	1412UE	0/	.331006	01	20	3	1	1.37
,14140E	07	,305GCE	01	.14160E	07	.29900E	01	,14190E	07	.33000E	01	28	3	1	7 56
.14200E	07	.3220CE	01	.1423CE	07	.35900E	01	.14250E	07	40200E	01	28	3	1	737
14270E	07	350065	01	14298F	n 7	34000F	01	14320F	07	42200F	61	28	3	1	738
141700	~~ ·	100000L	6.4	147606	a7	740000	04	1/4/02	07	129005		20	ž	-	770
.1433UE	07	,4210uc	01	143005	07	121000E	01	•14400C	07	1020002	UT.	20	-	1	/37
,14420E	07	,284CCE	01	.14440E	0/	.27000E	01	.14480E	07	.32000E	01	20	3	1	741
,14500E	07	,36300E	01	.14520E	07	.35400E	01	.14550E	07	.32100F	01	28	- 3	1	741
.14560E	07	.3160CE	01	.1460GE	87	.37400E	01	.14650E	07	.40900F	01	28	3	1	742
14670E	0.2	310002	01	147165	07	42000E	01	147506	07	314005	01	24	ž	4	743
147000	07	1099000		147005		346000	04	1 40 000	~ ~	774000	04	20	ž	1	7.4.4
.14/605	0/	.314UUE	11	-14/9UE	0/	.342UUE	11	146UUE	0/	.3/OUUE	01	20	3	1	/44
,14810E	07	.370CGE	01	14830E	07	.33100E	01	.14850E	07	.31000E	01	28	3	1	745
.14870E	07	.30700E	61	,14920E	ί,7	.33700E	01	.14940E	07	,33500E	01	28	3	3	746
15000E	07	40271E	61	15010E	07	41400E	01	15040E	07	.377605	01	28	3	1	747
150706	07	316002	6.1	151005	07	252005	01	151105	07	252005	0.1	28	ĩ	Ē	748
.1.0702		.310000				1272005		1221100		204000				÷	940
1>100E	0/	.3620UE	01	,191/08	07	.3/10UE	01	,1920UE	07	.2410UE	01	20	3	1	749
,15290E	07	.3279CE	61	,15320E	07	,32200E	01	,15380E	07	.28000E	01	28	3	1	750
.15420E	07	.27200E	01	1546CE	37	.34400E	61	.15480E	07	.38500E	01	28	3	1	751
15490F	0.7	345006	6.1	15500F	n 7	357005	01	155205	07	361005	ñ4	28	3	4	752
125400	0.7	2-5606	01	166466	07	316605	01	164005	07	341005	.a.₹	30	ž		763
.13300E	0/	. ZODUCE	01	199000		. JI 000E	01	120000		.301002	01	20	3	1	773
,15620E	07	.34900E	01	.1564UE	0/	,31800E	01	.1200UF	07	,320UUE	01	28	3	1	/54
,15690E	07	.35100E	C1	.1573CE	07	,30300E	01	.15770E	67	.32700F	61	28	3	1	755
.15790E	07	.3136CE	ú1	.15820E	٥7	.33300E	01	.15840E	07	.33100E	61	28	3	1	756
15890F	0.7	306605	01	15920F	ā7	24500E	01	15960F	07	21400F	01	28	3	4	757
166000	07	232000	1.4	140000	07	262005	04	140205	07	200000	N 4	20	ž	4	760
1377UC	0/	237000	01	100005	07	-29200E	01	.100202	0/	1200002	01	20	3	-	725
16030E	U7	*5820CE	61	.100505	07	.2/000E	91	,10U50E	07	.27400E	01	20	3	1	/59
.16080E	07	.35300E	01	16100E	07	.44300E	01	,1611DE	07	4530DE	01	28	3	1	760
16130F	67	400006	61	16166E	07	.35900E	01	.16180E	07	.33900F	n 1	28	3	1	761
16210E	07	346005	N 1	16240E	07	327005	01	16270E	07	360005	ñ1	28	3	-	762
1.0000	0,	-340006	61	463405	07	027000		447505		205000E	01	20	4	-	702
,1020UE	07	.340UUE	UI.	.103105	U <u>′</u>	.2//000	01	.103500	0/	,2570UE	U1	20	3	1	165
,16390E	07	.2310CE	01	.16410E	ü/	.20000E	01	,10420E	07	.27200E	01	28	5	1	/64
.16450E	07	.31300E	[1	.1646DE	07	.31600E	01	.16480E	07	.30400E	01	28	3	1	765
10500F	ñ 7	319006	Č1	16520E	07	33400E	01	16530F	07	.32900F	01	26	3	1	766
145400	0.7	744600	0.1	425005	07	208005	0.4	464205	0.7	107000		20	-	-	747
100000	07	,3110VE	θ.	1039UC	11/	.ZYOUUE	UT.	100202	07	.32700E	01	20	3	1	10/
.1005UE	07	40200E	63	.106/UE	U /	41200E	U1	,1000UE	07	.39/00E	01	28	5	1	168
16710E	07	.3790CE	61	,16720E	07	37700E	01	.16750E	07	, 35000E	01	28	3	1	769
.10760E	07	.35300E	61	.16800E	07	.29500E	01	.16830E	07	.30500E	01	28	3	1	770
16870F	07	321605	01	16890F	07	30300F	٨Ĩ	16930F	07	.250005	n 1	28	3	1	771
1.050	~ ~	043000	0 4	440705	~7	240005	0 A	120000		754000	0 4 0 4	20	Ť	-	770
10320F	0/	+2470UE	U.L	TOALOF	<u></u>	COYUUE	01	*TIODAF	U/	+334UUE	01	62	2	1 -	112
17020E	07	,38700E	61	17040E	07	.41>00E	01	17060E	07	,39300E	01	28	3	1	773
.17080E	07	.36900E	C1	.17160E	07	.37200E	01	.17110E	87	.3970CE	01	28	3	1	774
17140E	Û7	.39406F	C1	.17170E	07	.36400E	01	.17200E	07	.31900F	61	28	3	1	775
172205	07	305005	61	172405	07	303005	01	172605	07	308005	01	28	ž	4	776
477000	07	10000CC	6.4	477045	07	104000	04 0 T	4 72405	0 / 0 =	204400	N T	60	5	1	770
1/240F	U7	13010CE	01	.1/32UE	07	.204UUE	U1	+1/3405	07	.3040UE	01	28	S	1	171
17370E	07	,31900E	61	.17400E	07	.32700E	01	,17420E	07	,31100E	01	28	3	1	778
.17440E	07	.2910VE	61	.17460E	07	.30100E	01	.17500E	07	.30200E	01	28	3	1	779

.17540E	07	.28000F	L 1	.17550E	û 7	.28200E	01	.17590E	07	.31600E	01	28	3	1	780
17600E	07	.305006	61	176306	67	.26300E	01	17650E	07	25200F	01	28	3	1	781
17670F	07	25500F	- ĉī	17690F	a7	.284005	01	17720F	07	33000E	01	28	3	ī	782
17750E	07	.32960E	61	177766	67	.30600E	01	17800F	07	2820CF	01	28	3	1	783
178306	07	284006	11	178466	7	274005	01	178705	0.7	281005	01	28	3	- ī	784
170000	07	746600	6.1	470305		200000	04	170505	07	432000	01	28	ĭ	-	785
170000	07	145006	04	170000		177000	91	100000	07	432005	04	20	7	4	784
11/9DUE	07	+44500E	61	.1/99UE	07	.437UUE	01	,18000E	0/	+420000	01	20	3	1	700
.1902UE	07	139700E	11	,1805UE	07	.3940UE	01	.18080E	07	410002	01	20	3	1	10/
.1812UE	07	.36100E	- 61	,18150E	0/	.32200E	01	.18180E	0/	-29000E	01	28	3	1	768
,182006	07	.26600E	63	,18220E	07	.28000E	01	,18240E	07	.205005	01	28	3	1	789
,15250E	07	.294COE	C1	.1828 0E	07	.26600E	01	,18320E	07	\$26300E	01	28	3	1	790
,16350E	07	.28400E	01	.18380E	07	,28900E	01	.13410E	07	.29600E	01	28	3	1	791
,1e430E	07	,3020CE	C 1	.18450E	07	.33700E	01	,18490E	07	,30700E	01	28	3	1	792
.10500E	07	.3070CE	61	18520E	07	.30700E	01	18560E	07	.3040CE	01	28	3	1	793
,19600E	07	2940GE	01	.18610E	97	.2920UE	01	.18630E	07	.2520CE	01	28	3	1	794
.1067DE	07	.22200E	01	.18720E	07	.2230JE	01	.18750E	07	.23400E	01	28	3	1	795
.13780F	07	.24000F	01	18820F	07	.28460E	01	18840F	07	.31400F	01	28	3	1	796
148706	07	334005	6.1	188806	07	33300E	01	180106	n,	311005	01	28	3	4	797
140305	07	301005	6.1	190405	37	200005	04	100000	07	344905	04	29	ž	-	704
100106	07	354000	2.1	107000	07	343000	01	100605	07	101000	01	29		4	700
100000	07	100000	6.4	101005	37	23400E	01	101405	07	334005	04	20	7	1	800
101205	07	1327002	1.4	101505	07	71000E	04	101700	07	20300E	01	20	7	-	804
120200	07	.32200E	61	.191906	07	*21000E	01	+191/UE	07	.29300E	01	20	3	-	001
17410F	07	+26700E	11	192496	07	,2090JE	01	.1926UE	0/	,24/00E	01	25	3	1	802
.19280E	07	,2330CE	01	.19300E	07	,2350UE	01	.19340E	07	,25400E	01	28	3	1	803
,1/370E	07	.27300E	(1	,19410E	ΰ7	,318COE	01	,19430E	07	3 3300E	01	28	3	1	804
.i→460E	07	,3350CE	61	.19470E	67	.32809E	01	,19490E	07	,313CDE	01	28	3	1	805
,17500E	07	.28800E	Ľ1	.19510E	ú7	.2630uE	01	.19540E	07	.23800E	01	28	3	1	806
,19560E	07	23000E	61	.19590E	07	.24900E	01	.19620E	07	.27000E	01	28	3	1	807
.19640E	07	.28900E	61	.1966GE	07	.29100E	01	,19680E	07	.28700E	01	28	3	1	808
.1971DE	07	.39600E	01	.19740E	07	.32300E	01	.1976DE	07	.345005	01	28	3	1	809
.19790E	07	.357DGE	61	.1982UE	07	31600E	01	19850E	87	.29000E	01	28	3	Ē	810
.19890E	07	.29800E	č1	19710E	07	.31200E	01	.19950E	07	.31400E	01	28	3	1	811
19970E	07	.311COE	61	1999BE	07	29800E	01	.20000E	07	29950E	01	28	3	1	812
20010E	07	.301066	61	20050F	5 7	.28600F	ñī.	20090F	07	30300F	01	28	3	1	813
201305	07	23400E	01	201705	5.7	.31100E	01	20190E	07	309006	61	28	ž	Â	814
202105	07	294046	1.1	202705	07	121016	01	203005	07	324005	01	28	ž	4	845
213406	07	1200000	6.1	204006		74000E		204505	07	124005	01	29	7	4	814
205305	07	30700E	01	205505	n7	315005	01	205005	07	344000	01	28	ž	4	817
246105	07	247665	11	204705	07	324045	04	207205	07	204005	04	20	ž	4	810
,20010E	07	1347006	04	120070E	07	101005	01	200705	0.7	1270802	01	20	3	1	010
.2074UE	07	.20/UUE	11	,2070UE		.30100E	01	.208308	07	.2900UE	01	20	3	1	019
.20640E	07	.29700E	101	.20300E	07	.29700E	01	,20930E	07	•3230BE	01	~8	3	1	820
. J970E	07	,2910CE	C1	.21000E	37	27950E	01	.21030E	07	.26400E	01	28	3	1	821
.21090E	07	.30400E	U1	.2113UE	07	.2850JE	01	.21190E	07	.3100DE	01	28	3	1	822
.21 <u>220</u> €	07	.350CCE	[1	.21300E	9 <u>7</u>	.37300E	01	,21340E	07	.3440CE	01	28	3	1	823
.21360E	07	.34400E	61	,21400E	37	.3730UE	01	.21450E	07	.34200F	Ũĺ	28	3	1	824
.21460E	07	.36600E	01	.21520E	07	.29800E	01	,21560E	07	.26600E	01	28	3	1	825
.21620E	07	,28000E	ί1	.21740E	Ű7	,27000E	01	.21770E	07	29700E	01	28	3	1	626
.21600E	07	.34200E	01	.21820E	07	.35600E	01	.21860E	97	.3290DE	91	28	3	1	827
.21900E	07	.3040CE	61	.21950E	67	.30900E	01	.21960E	07	.310008	01	28	3	1	828
2200NE	07	.30000E	61	.22020E	07	.29500E	01	.22050E	07	.28100E	01	28	3	1	829
22080F	0.2	.31300F	61	22160E	07	.27700E	01	22200F	07	-26450F	61	28	3	1	830
22200F	07	.34500E	61	22320F	0.7	34950E	0.1	.22370F	07	306005	01	28	3	1	831
224105	07	207065	61	224005	a7	321066	64	225005	07	316005	04	20	ž	-	832
10FEAF	07	201000	61	226466	07	311000	01	224ENE	07	342005	01	26	ž	4	877
207305	07	332000	01	222201	07	-28000E	04	220205	07	.33800E	04	28	7	4	834
1227308	07	1002000	04	320205	07	124000	04 04	14200UE	07	340462	01	20	7	-	876
.229UUE	07	1070VE	04	1227JUC	07	-367000	01	46670VE	07	346000	04	20	37	1	037
.2300DE	07	·335002	61	,23030E	U/ 0∼	.314UUE	41	.23070E	07	.3420UE	01	20	3	1	036
.23100E	07	39100E	01	.2315UE	07	.34200E	01	,23170E	07	.34/UUE	01	28	5	1	837
23240E	07	.30300E	01	.23270E	07	.30800E	01	.23320E	07	.33700E	01	28	3	1	838
,23410E	07	+24200E	Ç1	2348UE	07	.3240UE	01	-23530E	07	• 20 0 C UE	01	5 8	5	1	838

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.2357	0E	07	.347UUE	01	.23640E	07	.3510UE	01	.23720E	07	.28500E	01	28	3	1	840
.2578	0E	07	.27100E	61	.2381CE	07	.29700E	01	.23870E	07	.32300F	01	28	3	1	841
,2392	0E	07	30700E	01	.23940E	67	31400E	01	.23970E	07	.36200E	01	28	3	1	842
2399	0Ē	07	.36200E	61	.24060E	07	.355718	01	-24060E	07	.31800F	01	28	3	1	843
.2410	0E	07	32800F	01	.241405	07	.31200E	01	.24190E	07	.27900F	01	28	3	1	844
.2426	0Ē	07	313006	01	24360E	07	.34200F	01	24370E	07	.37400F	01	28	3	1	845
.2445	nE	07	332006	01	24540E	07	362005	N 1	.24580E	07	349005	n 4	28	3		846
.2461	0E	0.2	334000	01	24-405	117	338006	C 1	247555	07	309005	01	28	ž		847
. 2478	00	07	274000	01	24-205	07	257005	04	249900	07	299000	0.4	20	ž	-	848
. 2402	20	07	339605	01	240505	07	350 006	01	240005	07	325000	01	20	2	4	640
2860	0	0,7	1000000	04	249200	07	214005	0.4	369505		3020000	01	20	ž		660
12000	02	07	· 32090E	01	1200LUE	07	310000	01	+23030E	24	302000	01	20	2		850
• 2211		07	,30300E	01	.2210UE	07	.311006	02	.272000	07	.36/005	10	20	3	1	071
12724	UE	07	33200E	01	.25280E	07	.30101E	01	.25348E	07	.32900E	91	28	3	1	852
.2540	UE	07	.31900E	01	.254405	07	.31000E	01	.25450E	07	.33333E	01	28	5	1	853
, 25501	0E	07	.34200E	01	.25560E	G /	.36200E	01	,25610E	07	360005	01	28	3	1	854
.2264	0E	07	.3290UE	61	125770E	07	*58A00E	01	.25850E	07	.3450 NE	01	28	3	1	855
.2591	0E	07	.31900E	01	.25970E	07	.31100E	61	.26000E	07	,31520E	01	28	3	1	856
.2602	0E	07	,31800E	Ç1	.26080E	9 7	.3540GE	01	,26120E	07	,36500⊄	C 1	28	3	1	857
.2618	0E	07	,33700E	01	.26240E	c7	.31000E	91	,2630DE	07	,322066	01	28	3	1	858
.2636	0E	67	.29300E	Ú1	.26410E	67	.2640GE	61	.26470E	07	,29300 2	01	28	3	1	859
,2651	0E	07	.31000E	01	.26550E	07	.333005	01	.26610E	07	.31900E	01	28	3	1	860
+2666(0Ē	07	.3120UE	01	.26700F	07	.29867E	01	,26720E	07	,2350DE	01	28	3	1	B61
.26761	0E	07	.32600E	01	,26820E	ย7	,3360uE	01	,26870E	07	.318005	01	28	3	1	862
2693	ŌĒ	07	27600E	01	2700E	C 7	.33300E	01	27020E	07	33400E	01	28	3	1	863
.2704	ĎE	07	.32800E	01	.2708GE	67	.29100E	01	.27100E	07	25400F	01	28	3	1	864
.27190	ŌĒ	37	.32600E	01	.27250E	0 7	.34500E	61	.27300E	07	.35100F	01	28	3	1	865
.27360	DE	07	.33500E	01	.27430E	07	.3490UE	61	.27450E	07	.34900E	61	28	3	ī	866
.27520	n F	07	.31200F	01	27560E	a7	305005	<u>n1</u>	27610E	67	.316005	01	28	3	1	867
27640		07	370005	0.5	277205	n 7	365005	61	277605	07	339005	04	2.9	ž	÷	646
.27810	nE	07	334006	01	27850E	07	349005	11	270005	07	330002	01	28	ž	4	640
27060		07	304002	01	290005	07	391715	01	240300	07	116005	04	20	7	-	607
227900	76 76	07	303000	01	284505	67	174015	01	12003UE	07	371000	01	20	7	-	874
1020105	JC NC	07	3603000	01	20130C	07	21500E	64	201705	07	\$07100E	01	20	7	4	672
129221		07	1392036	04	.202010	27	1319000	01	,203900	07	744000	01	20	3	1	677
125441	15	07	.29800E	01	3285100	07	.30400E	01	.2878UE	07	,34100E	01	20	2	1	0/3
120001	1F	07	-33200E	01	.20/002	07	.3790UE	01	.28/3UE	67	.3/200E	U1	20	2	1	0/4
20000	JE	07	.34000E	Ul	.28840E	07	.32300E	01	.289106	07	.33200E	01	28	2	1	875
.28900	JE	07	.34400E	01	,29000E	UZ.	.33//16	91	.29030E	07	.33300E	01	26	3	1	8/6
,29110	JE	07	.338UUE	UI	.2918UE	07	-32400E	91	.29250E	07	33000E	01	28	3	1	877
\$3200	DE	07	32300E	01	.29379E	01	.33800E	01	.29400E	07	.33200E	01	- 28	3	1	878
,2947(DE	07	29600E	01	29549E	ΰ7	.31700E	01	.29600E	07	,32725F	01	28	3	1	879
,29620	DE	07	,32400E	01	·297202	C 7	.40000E	01	,29740E	07	,40100E	01	28	3	1	660
,29800	ЭE	07	. 36550E	01	.2986CE	67	,33000E	01	,29910E	97	3190 0E	01	28	3	1	881
,29990)E	67	.34000E	01	.30000E	37	,34250E	u1	.30010E	07	34500E	01	28	3	1	882
.30090	ĴΕ	07	.33400E	Q1	,30100E	07	.33512E	01	.30170E	07	,34300E	01	58	3	1	663
,30240)E	07	.3260NE	01	.303205	ย7	,31300E	01	.30370E	07	.31400E	01	28	3	1	884
.30400)E	07	,32467E	01	.30450E	07	.34300E	61	.30500E	07	.33200E	01	28	3	1	885
.30580)E	07	.3540UE	01	.30700E	07	.32800E	61	.30800E	07	.314365	01	28	3	1	896
.30810	DE	07	.31300E	01	.30910E	37	.31900E	01	30990E	07	30000F	01	28	3	1	867
,51100)E	07	.32100E	01	.312U0E	U7	,31946E	01	.31230E	07	31900E	01	26	3	1	888
.31340)E	07	30600E	01	.31450E	U 7	.33600E	01	.31470E	07	34400F	01	28	3	1	889
. 31500)E	07	.34300E	01	.3158UE	67	.31200E	01	.31660E	07	.30600F	01	28	3	1	890
.31690	DE	07	.31300F	01	.31770E	07	2970uF	01	31800F	07	300005	61	28	3	1	891
.31880	Ē	07	34300E	ů1	.31910F	07	35400F	61	32000F	07	353 (AF	D1	28	3	-	892
32020	ΪĒ	G 7	35306+	01	320 80 F	ŋ 7	35200F	01	32130F	Ď,	343005	01	28	3	1	803
. 32220	Ē	07	.3310CF	u1	.32330F	07	.33106F	01	324705	07	33000F	01	26	3	ĩ	894
.32500	SE -	07	332186	n1	32540F	07	33800F	n¶.	326005	07	339335	01	28	3	ĩ	805
.32640	ie '	07	342005	01	.327.004	07	33500F	0 1	327205	07	330005	04	28	3	1	804
32800		07 07	332500	01	320005	ດ 7	345000	01	130005	07	353185	01	28	ž	4	807
33040		07	354000	01	330405	07	350000	01	731000	07	100010F	01	20	7	+	97/ 600
100010		07	300000	61	100040E	07	357112	01	1001A0E	0/	10-003E	01	20	2	1	800
	ا ما 7	v /		u +	1002200			V -	.002005	~/		u 4	60	U	1	047

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the feature of the second

,33390E	07	.34900E	01		7ن	.34844E	01	.33480E	07	.34400E	01	26	3	1	900
33570E	07	.34000E	01	33720E	07	.3430UE	01	.33840E	07	.33900F	01	28	3	1	901
33900E	07	34300É	01	.33990E	07	.34700E	01	.34000F	0.7	345506	01	28	3	ī	902
.34110E	07	.32900E	01	.34200E	67	.32200F	01	.34300F	07	.34900E	01	28	3	1	903
.34390E	07	35000F	61	.34450F	67	-347anF	6.4	345705	07	371005	01	28	3	1	914
.34610F	07	366006		34730E	07	346005	- ii 1	4960C	117	350000	01	28	ž	1	905
349506	07	3500000	0.1	340906	07	351000	04	360000	07	347476	04	20	7	4	004
150105	07	344006		161106	07	352635	01	1500002	07	34/0/E	01	20	3	1	900
353705	07	340000	0.0	364400	07	356000	01	35400F	07	- 30200E	01	20	3	1	907
155000	07	365000	01	786400	07	-320000	01	1009906		+320002	01	20	3	1	908
,3000E	07	135500E	04	399605	07	-347UUE	01	.3266UE	07	.36700E	01	28	2	1	909
13373UE	07	.37400E	- U <u>I</u> - // 4	3785UE	01	.346UUE	01	,3595UE	07	.30100E	01	28	5	1	910
.3000UE	07	.35/UUE	01	.36050E	07	.3530UE	01	-36150E	07	.34800E	01	28	3	1	911
.3625UE	07	.34400E	01	.3635VE	07	.33900E	01	.36480E	07	,34400E	01	28	3	1	912
.30020E	07	.36300E	01	,36690E	07	.3770UE	01	,36720E	07	,37400E	01	28	3	1	913
.36/90E	07	.35200E	01	.36820E	07 07	.3440uE	01	,36890E	07	.33764E	01	28	3	1	914
.36930E	07	.33400E	01	.37000E	Û7	,3277JE	01	.37030E	07	.32500E	01	28	3	1	915
.37130E	07	,33500E	11	.37200E	67	.33900E	01	.37270E	07	,33600E	01	28	3	1	916
-37310E	Ű 7	,32900E	01	.3741UE	07	.3600UE	01	37480E	07	.37000E	01	28	3	1	917
.37500E	07	.36818E	01	.37590E	٥7	.36000E	01	.37630E	07	.35600E	01	28	3	1	918
,37660E	07	.35300E	01	,37760E	67	.35500E	01	.37940E	07	,35300E	01	28	3	1	919
,35000E	07	.34760E	01	38090E	07	.34000E	01	.38230E	07	355005	01	28	3	1	920
.33340E	07	.34809E	01	.38480E	07	.36500E	01	38670E	07	36500F	01	28	3	4	921
.38850F	07	.34600E	01	.39000F	07	.3540uE	- 11	.39110F	07	34800F	01	28	3	1	922
.39150F	07	33300E	01	39260E	07	.338n0F	n1	.39380E	07	361006	n 1	28	ă.	4	923
39530E	0.7	34600E	01	.39680F	67	-34600F	6	.39830E	07	34700E	01	28	3	1	024
39990E	07	.34300E	01	40000E	c.7	.34625E	61	400306	07	341000	01	28	3	4	625
260F	07	.32700E	01	404205	67	.360005	n 1	405000	07	368666	04	26	ž	1	024
405405	07	372006	01	105105	07	348005		400000	07	365000	04	20	2	-	720
410000	07	- 37 200 <u>0</u>	114	4400100	07	-340005	01	447005	07	+ 35 70 UP	01	20	5	1	721
415400	07	1341276	01	417505	07	+37000E	01	41300E	07	+3750UE	01	~ 0	3	1	92.5
4124UE	07	+339UUE	04	.41/7UE	07	-35200E	01	418/UE	07	.35400E	01	28	3	1	929
42450E	07	1325410	01	422095		137/000	01	,4233UE	07	1304UUE	01	20	3	1	930
424002	07	*32000E	01	4259UE	0/	137402E	01	4259UE	07	,3650UE	01	28	2	1	937
4293UE	07	.32900E	01	43039E	07	.340126	01	+43100E	07	.35500E	01	28	5	1	932
4327UE	07	.35900E	01	43360E	07	.3/1005	91	,43620E	07	,35500E	01	28	3	1	933
,43850E	07	.36400E	91	,440U0E	67	.35626E	01	.44160E	07	.34800E	01	28	3	1	934
44430E	07	.35700E	01	.44610E	07	.380005	61	.44750E	07	,36500E	01	28	3	1	935
44890E	07	3750NE	61	45000E	C7	.3677bE	01	.45210E	07	.35400E	01	28	3	1	936
45400E	07	347U0E	01	.455405	J7	.3560úE	01	45680E	07	.34200E	01	28	3	1	937
45920E	07	.34100E	01	.46250E	07	.35100E	61	.46590E	07	3 5900E	01	28	3	1	938
46790E	07	.36700E	01	.46980E	07	.34200E	01	.47000E	07	,34440E	01	28	3	1	939
47230E	07	.37200E	01	,47430E	ΰ 7	.374J0E	01	47680E	07	.34400E	01	28	3	1	940
47880E	07	,35500E	01	48000E	07	.348145	01	4809CE	07	.34300E	01	28	3	1	941
46290E	07	.3970UE	41	48550E	ü7	.3480UE	C1	48910E	07	33600F	01	28	3	1	942
49070E	07	.36100E	01	.4923JE	07	.341005	61	.49490E	07	.34300E	01	28	3	1	943
49700E	07	35900E	01	49980E	07	.363005	81	.50000F	07	.36420F	C 1	28	3	1	944
50030E	07	.36600E	01	.505BDE	07	.36200F	51	-50910F	07	35400F	01	28	3	1	945
51130F	07	35740	01	.51410F	ri 7	.36000F	61	.51530F	07	34800E	01	28	3	1	046
51930E	07	36500F	91	52270E	ŭ 7	.36500E	61	-52560E	07	363006	n 1	28	3	1	947
22970F	07	36100F	01	.53000F	ñ 7	36150F	01	.53270F	07	.36600E	ñ.	28	3	1	048
5 3305	07	370005	01	537505	67	SADLUE	04	540005	07	350310	04	28	ž		640
54250C	07	25000E	64	540405	07 07	260000E	01	54400C	07	757005	01	20	3	1	747
592202	07	132900E	0.4	54030E	07	1 J J U U U U E	01	17442UE	07	-373000	U1	2 d	3	1	ソフジー
740/UE	v/	. JJ200E	0T	.7492UE	0/	- 37 YUUE	U1	.22000E	07	-37744E	01	20	3	1	751
551UUE	0/	.37100E	01	• 77420E	0/	.37480E	01	+22670E	07	.37600E	01	28	5	ī	952
55660E	U/	.308UVE	01	.7025UE	0/	370UUE	01	.56700E	07	.3510UE	01	28	3	1	953
PAYUUE	07	+35800E	UT.	.7/100E	0/	.3019UE	11	•21530E	07	.37200E	01	28	3	1	954
5763DE	07	35700E	01	-2000E	07	.36873E	01	.58040E	07	.37000E	01	28	3	1	955
5038UE	07	36200E	01	.58720E	07	.3640DE	01	.59000E	07	.36263E	01	28	3	1	956
59130E	07	.36200E	01	.59270E	07	.3660UE	U 1	,59630E	07	,35900E	01	28	3	1	957
59980E	07	,3640DE	01	.60000E	ŋ 7	.36286E	01	,60050E	07	.36000E	01	28	3	1	958
60560E	07	36056E	Ü1	.61000E	07	.36104E	01	,61870E	07	.36200E	01	28	3	1	959

and a second second

	.63000E	07	36200E	01	.64000E	ú7	.36206E	01	,640108	07	.36200E	01	28	3	1	960
	.64020E	07	.36200E	01	.65000E	07	.36249E	01	.66000E	07	36299E	01	28	3	1	961
	.06030E	07	.36300E	91	.68059E	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	91	.7500DE	07	.35453E	01	76100E	07	35400E	01	28	3	1	964
	78080E	07	35100F	01	.79540E	õ7	.351n0F	n1	.79910E	07	35100F	01	28	3	1	965
•	.86000F	07	.35098E	n 1	.81360F	ñ7	.35050F	01	831906	07	34585F	01	28	3	1	966
	-0425DE	07	343105	61	85000E	07	342515	01	873005	07	340705	01	28	ž	-	067
	.9007.05	07	37-945	N 1	005000	ñ7	336105	01	07000E	07	331405	04	20	2	4	540
	.45000E	07	120575	n1	040206	07 07	326545	01	075105	07	326066	01	20	7	4	040
	100000	0,	3027276	04	101/05	~~	720005	04	105005	~~	114765	04	20	7	-	070
	+100002	00	• 02200E	91	.101306	00	1 3 2 U 9 U E	01	+10500E	00	1010/05	01	20	3	1	970
	1074UE	05	.31630E	01	.1090UE	00	.311408	01	,110000	08	,31082E	01	20	5	1	9/1
	,1142UE	00	.304/UE	01	.11590E	08	.3033UE	01	,11/5UE	08	29692E	01	28	2	1	972
	.11900E	05	.2963UE	01	.12000E	05	.29505E	01	12250E	94	.29192F	01	28	3	1	973
	,1241UE	0.5	.283325	91	.12420E	08	28980E	U1	,1250UE	08	-20899E	01	28	్	1	974
	.12970E	00	.26420E	31	.130.0DE	08	28385E	01	,13500E	08	.27809E	61	28	3	1	975
	,13560E	08	,27740E	01	.14060E	08	.27160E	61	.14190E	80	,26910E	01	28	3	1	976
	,14500E	08	,26559E	01	.14870E	60	,2614UE	01	.15000E	08	,26028E	01	28	3	1	977
	.15500E	06	25597E	01	15590E	80	,25520E	81	.16000E	80	,25226E	01	28	3	1	978
	.16370E	80	,2496DE	01	.16500E	06	,24897E	01	.170C0E	80	24652E	01	28	3	1	979
	.17210E	08	24550E	01	,17500E	60	,24416E	01	.1800DE	80	,241855	01	28	3	1	980
	18120E	80	.24130E	31	.1850UE	80	.24029E	01	.19000E	80	.23697F	01	28	3	1	981
	19100F	68	23470F	01	19500F	n8	.23750E	61	20000F	0.8	23600F	64	28	3	1	982
	.06000E	0 a	.000006	ññ	12/2012	••	100.000	-	,	•••			28	3	ñ	SAZ
	2.80000	a a	5.81426+	1		n		ſ		0		n	28	ž	ž	064
	0.000054	00	0.02020	อกิ		, ii		n		2	25	40	28	3	5	045
	01000021	20	0.00002+	ž	25	٩ŏ		2		ñ	2.7	_ ^ /	28	ž	ŝ	086
	1 00000-		7 745404		-0052000-	±2	7 765404	. î.	2 26743-	2	7 766504	Ň	20	ž	5	007
	1.00000-		7.703004		2.23000-	5	7 745404		3,30/434	2	7 74540.	0	20	7	~	70/
	4,402034	• 4	/,/5206+	Ű	2.90201-	~	7.70500		/ 94022*	2	7 70700+	U	20	3	2	900
	1.05084-	• 1	7,75556+	ູ່ມ	1.40000=	1	7,705501	. 0	1.0/220-	1	7.70540+	ů.	20	3	S	282
	2.49198	• 1	/ / / 0040+	U	3.31683-	1	1.105304		4.414/0=	1	/./0526+	U	20	3	2	990
	5.0/596	• 1	7,76500+	0	/ 82091-	1	7,764894	()	1,04096+	U	/,/6460+	Q	26	3	2	991
	1.38552+	• ŋ	7,76420+	0	1.84413+	Û	7.763904	· ù	2,45454+	G	7,76330+	0	28	3	2	992
	3.266994	н () (7,76250+	3	4,34636+	0	7.761504	· C	5.78767+	Û	7,76000+	C	28	3	2	593
	7.70338+	• 0	7,75820+	9	1,02532+	1	7,75580+	0	1.36470+	1	7.75240+	0	28	3	2	994
	1.01642+	1	7,74810+	ú	2,41765+	1	7.74230+	0	3.21789+	1	7.73460+	0	28	3	2	995
	4.28302+	• 1	7,72430+	Э	5,70070+	1	7.71060+	0	7.58763+	1	7.69260+	0	28	3	2	996
	1,00991+	2	7.65840+	Û,	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	7.182704	0	8.22097+	2	6.99566+	0	28	3	2	999
	9.94738+	- 2	6.34000+	ō	1.29104+	3	6.57800+	, õ	1.29134+	3	6.57770+	ā	28	3	2	1000
	1.291554	. 3	6.57750+	ň	1.29179+	3	6.57730+	ň	1.29186+	3	6.57720+	ñ	28	3	2	1001
	1.29201+	. 3	6.57710+	n	1.29214+	3	6.57700+	ň	1.29230+	3	6.57680.	ñ	28	3	2	1092
	1.292454	. ĭ	6 576704	5	1.29266+	3	6.576504		1.29342+	3	6.57590+	ñ	28	ž	2	1003
	1 760044		4 174404	4	2 252264	ž	5 770804		2.257784	ž	5 771404	ñ	28	ž	5	4.64
	2 254004	3	5 774004	2	2 26561	ž	5 770404	a	2 25508	ž	5 770704	0	30	7	5	4005
	21234004	·	5 770004		2+2JJJ1+	7	5 740404		2 2 2 3 3 9 0 4	2	5 77040.	0	20	7	~	1002
	2.29031	3	5.77000+	3	2,22020+	3	7,709004	្រ	2122000+	3	5 7/7/04/04	U	20	3	2	101.0
	2.20000+	' <u>`</u>	5 7 470	U	2,27/01+	3	5.70/20+	U O	2.27/17+	3	5 7/6/00+	17	20	37	2	1007
	2.22/32+	' S	9,70070+	0	2.23/4/4	3	2,70010+	0	2+27/09+	2	5 7 / DODU+	U D	20	3	2	1008
	2.25002+	5	5,/0/00+	0	2.20549+	3	5.70090+	0	2.25919+	3	2+/0020+	U	28	2	5	1009
	2.20022+	3	5./639 +	0	2.2/90/+	2	2,/2100+	Û	2:34524+	5	5,09/90+	D	28	3	2	1010
	5,43410+	3	4+9189 +	Q	3,77751+	3	4,46500+	6	4,01358+	3	4.16390+	Û	28	3	2	1011
	4,20081+	3	3,90760+	ŋ	4.57079+	3	3,50520+	D	5,02787+	3	3,07890+	0	28	3	2	1012
	5,52782+	3	2,52030+	0	2,52852+	3	2.51970+	0	5.52899+	3	2.51950+	0	28	3	2	1013
	5,52931+	3	2,51950+	D	> , 52953+	3	2,51940+	D	5,52978+	3	2,51860+	C	28	3	2	1014
	5,52985+	3	2,51830+	5	5.53u01+	3	2,51700+	Û	5.53015+	3	2,51540+	0	28	3	2	1015
	5,53032+	3	2.51550+	J	5,53047+	3	2.51540+	0	5,53069+	3	2.51540+	0	28	3	2	1016
•	5,53101+	3	2,51550+	0	>,53148+	3	2,51530+	0	5.53218+	3	2.51470+	0	28	3	2	1017
	5,54488+	3	2,59200+	3	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
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6.93954+	3 1,35560+	Ð	6+63979+	3 1,35680+	Û	6,88985+	3 1,35570+	0	28	3	2	1020
6.89001+	3 1,35220+	- IJ	c.8yū15+	3 1.34880+	0	6.89031+	3 1.34750+	0	28	3	2	1021
6.89046+	3 1.34780+	ŋ	5.89068+	3 1.34830+	U	6.89100+	3 1,34900+	0	28	3	2	1022
6.59147+	3 1.34930+	•)	6.8.216+	3 1,34930+	e	6.90005+	3 1.34410+	Õ	28	3	2	1023
8.09744+	3 4.05580-	1	0.41520+	3 1.47850-	1	8.61219+	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+	4-6-19306-	ī	4.53692+	3-9.18280-	- 1	9.55652+	3-9.34040-	1	28	3	ົ້	1026
9.79790+	3-1.13370+	n	1.06447+	4-1.82750+	ñ	1.077774	4-1-92140+	ĥ	28	3	•	1027
1.11636+	4-2 14420+	- 6	1.15680+	4-2 27570+	6	1.100024	4-2.36780+	ñ	28	ž	5	1028
1.21950+	4-2.53010+	ŭ	1 32972	4-3.57080+	ň	1 320814	4-3-56700+	ň	28	3	5	1020
1.300074	4-3 540204		1 321134	4-3 681204	6	1 330104	4-3 674604	ň	28	ž	5	1030
1 (1028)	4-2 (57)0.	~ ~	1 214101	4-7 657001	u A	1 350134	4-3 91(40)	0	20	7	2	4074
4 76076	4-3.09/20+	5	1.304174	4-3.02/00+	0	1.337034	4 7 4777 ···	U	20	7	~	1031
1.339/3+	4=3,30410+	J	1.35903+	4-3,/9/00+	U	1.35997+	4=3.0/3/0+	U	20	3	ž	1002
4 7 1 1 7 7 7 7 7	4+3:05200+	U U	1.3001/+	4-3.00200+	U	1.30022+	4-3.87920+	0	20	े. स्	~	1033
1.3003/+	4-3.003/0+	- J	1.30904+	4=3,91300+	0	1.39881+	4=4.22020+	Ŭ	28	3	~	1034
1.43984+	4-4.45/30+	U A	1.447/2+	4-4.20090+	u e	1.40/01+	4=4+30190+	U	20	3	2	1037
1.47904+	4-4,162/0+	ų.	1,50104+	4+3,20150+	Q	1.51/12+	4-2,43890+	Q	20	3	2	1036
1.55000+	4-1.56:000+	g	1.56908+	4-1.51400+	0	1,58288+	4-1:21406+	Q	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
1.7.3315+	4 1.42930+	2	1.73576+	4 1.40540+	0	1.78804+	4 1.24680+	U	28	3	-2	1039
1.63050+	4 9.22500-	1	1,89968+	4 8,64500-	1	1.89978+	4 8,65600-	1	28	3	2	1949
1,09997+	4 8.6459J-	1	1,90015+	4 8.52960-	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-	i	28	3	2	1042
1,99963+	4 5.90030+	1	1,99975+	4 5,99300-	1	1.99983+	4 6.96600-	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
2.09025+	4 5.69130-	1	2.00037+	4 5,72600-	1	2.00251+	4 5,76200-	1	28	3	2	1045
2. 3552+	4 5.01999-	1	2.07366+	4 4.10700-	1	2.09549+	4 3,82200-	1	28	3	2	1046
2,19027+	4 3,77800-	1	2.10327+	4 3.79000-	1	2,10542+	4 3.65600-	1	28	3	2	1047
2.13688+	4 3.95400-	1	2.10756+	4 4.19030-	1	2.10856+	4 4.50700-	1	28	3	2	1048
2.10933+	4 5.21490-	1	2.10954+	4 5.92100-	1	2.10969+	4 5.32800-	ī	28	3	2	1049
2.10979+	4 4.97700-	1	2.11090+	4 3.77400-	1	2.11021*	4 2.66300-	1	28	3	ē	1050
2.11931+	4 2.44000-	ī	2.11067+	4 2.23200-	1	2.11098+	4 2.42500-	ī	28	3	2	1051
2.11144+	4 2.06436-	ī	2.11212+	4 2.77800+	1	2.11312+	4 2.93400-	1	28	3	2	1052
2.11458+	4 3.03600-	ĩ	2.11673+	4 3.09100-	1	2.11988+	4 3.09500-	1	28	3	2	1053
2.13:32+	4 2.95600-	ī	2.26326+	4 7.34000-	5	2.31029+	4-2.20000-	3	28	3	5	1054
2.37694+	4=1.07903=	1	2.37791+	4-1.08600-	ĩ	2.37858+	4-1.05400-	ĩ	28	3	5	1055
2.47903+	4-1.07230-	1	2.37034+	4=1.05000+	1	2.37955+	4-1.01500-	÷.	28	3	2	1056
2.37969+	4-9.56010-	2	2.37479	4=8.66000=	5	2.37985+	4=9.00000	5	28	ă.	2	1057
2. 70004	4-9 (40)0-	5	2.37097	4-1.15810-	1	2.38004+	4-1.19400-	4	20	ĩ	5	1056
2 340444	4-1 52100-	-	2 32621	4-1.33800-	4	2 380364	4-1.32700-	4	20	3	2	4050
2 3303144	4-1 201 du-	1	2 360661	4-1 24743-	4	2 300004	4-1 37460-	+	20	7	5	1040
51000404	4-1 21100-	1	2 332064	4-1 21:00-	4	2 10450+	4-1 23400-	1	40	2	2	1000
2.002074	4-1-21100-	÷	2,35300+	4-5 61100-	+	2.304004	4-1,20000-	1	20	7	6	1061
2 658424	4-7 7 1700-	1	2 653024	4-7 63660-	4	2 650074	4=7.50700=	4	28	z	5	1047
2 45050424	4-7 31140-	÷	2 450664	4-7.00000-		2 45077214	4-7 50700-	1	20	7	5	1060
2.027204	4-7,51100-	+	2.009004	4-5 05000-	+	2.037774		1	20	3	~	1004
2.03484+	4+0,47300+	.i.	2.05909+	4-2.92000-	1	2.0399/+	4-0.01090-	1	20	3	2	1002
2.00005+	4-4+32200-	1	2,00010+	4-9,10189-	1	2.50315+	4-9,00100-	1	28	3	S	1006
2.00923+	4-3.25500-	1	2.06934+	4=8,94600=	1	2.06050+	4+8.62000+	1	20	2	2	1067
2.000/3+	4-8,44500-	1	2.00100+	4-8.33400-	1	2.00128+	4-8.2-300-	1	213	3	2	1068
2.00701+	4-8.29300-	1	2.00/30+		1	2+0/302+	4-0.09350+	1	28	3	2	1069
2./1628+	4=1,14980+	Ň	2./5530+	4-1./0599+	U	2:79877+	4=2.35620+	C	28	5	è.	1070
2.82151+	4-2.87930+	0	2.83699+	4=2.95590+	Ø	2,84753+	4-2.55570+	0	28	3	2	1071
2,85471+	4=2,13630+	0	2.87093+	4=1,57780+	0	2.88529+	4-1.37030+	0	26	3	2	1(72
2,90301+	4-3.95000-	1	2.91849+	4 2.19500-	1	2.94123+	4 5.70500-	1	28	3	5	1073
2.97464+	4 6,21200-	1	2.99630+	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
3,01961+	4 5,30600-	1	3:01090+	4 5,31100-	1	3.01132+	4 5.30600-	1	28	3	2	1077
3.68927+	4 3,24500-	1	3.09557+	4 3,10000-	1	3.16722+	4 1.63600-	1	26	3	2	1076
3,20174+	4 1.01700-	1	3,21600+	4 7,77000-	2	3,22175+	4 6.8R000-	2	28	3	2	1079

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3.22757+	4 6,12000-	2	3.23154+	4 5,84000-	- 2	3.23424+	4 5,96000-	2	28	3	2	1080
3.23608+	4 6.52004=	2	3.23733+	4 7.57000-	2	3.23818+	4 9.29010-	2	28	3	2	1081
7 339744	4 4 1 2600-		3 3/014+	4 4 53000-	-	3 330434	4 2 08708-	7	28	2	2	1062
3.200/04	4 1.10200-	1	3.23910+	4 1,00000	1	3.237434	4 2,09/00-	÷.	20	2	2	1002
3.23961+	4 2.66900-	1	3,239/3+	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	1064
3.24026+	4=2.63600=	1	3.24039+	4-1.81900-	1	3.24057+	4-1.31868<	1	28	3	2	1085
7 34004.	4 0 0 7 7 7 0 0	÷	1 244044	4-6 60000-	ŝ	3 044 804	4-7 67000-	5	20	7	5	4004
2+24084+	4=9,2/00=	2	3+24124+	4-2.20000-	4	3.24102+	4-2.9/000-	2	20	3	1	1000
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 4.60016-	- 3	3.24921+	4 4.50000-	3	3.25242+	4 2.39996-	3	28	3	2	1068
1 253254	4-3 10000-	7	3 274814	4-1 64660-	5	3.287204	4-2.17004-	5	28	7	2	1080
3 0000	4-3,40000-	5	312/1014	4-1104000-		3 200204	4-211/000-	2	20	ž	2	1007
3.20001+	4=2,13000=	2	3.28804+	4-2,08000-	2	2+59864	4-1-99000-	2	20	3	2	1090
3,28937+	4-1.98003-	2	3,28957+	4-1.72060-	-2	3.28971+	4-1.46000-	2	28	3	2	1091
3.28980+	4-1.15030-	2	3.25997+	4-1.13250-	2	3.29113+	4-3.66000-	2	28	3	2	1692
2 200554	4-7 74000-	-	2 30020	4-0 07000-	5	7 200474	4-3 74000-	5	20	-	5	1001
3.27020+	4-3-310.04	4	3.29027+	4-2,97000-	4	9.530434	4-24/4089-	2	20	2	~	1030
3.29063+	4 -2, 5700v-	5	3.24092+	4-2,45000-	2	3.29135+	4-2.36000-	2	28	3	2	1094
3,29199+	4-2.30000-	2	3,29767+	4-2,65000-	2	3.32000+	4-2,45000-	2	28	3	2	1095
3.32855.	4-3 16000	Ċ	3.32001+	4-3.13000-	2	3.32033+	4-3.05900-	2	28	3	2	109A
2 20054	4-0110000-	5	1 10060	A-0 74000-		7 700704	4.0 46000-	2	50	ž	5	4007
3+32924+	4-2,92000-	4	2+25404+	4-2./1000-	4	2.254/44	4*2142006*	6	20	3	6	TOAN
3,32997+	4-2,50680-	2	3,33014+	4=4,92000=	2	3.33021+	4=4,44000=	2	28	3	2	1098
3.33031+	4-4.12000-	2	3.33646+	4=3.93000=	2	3.33067+	4-3.80000-	2	28	3	2	1099
3.33000+	4-3 73000	2	3.33145+	4-3.69000-	5	3.342334	4-3.69006-	5	28	ž	2	1100
7 75774	4-3,/3000-	5	1 7.040	4-3.090000	£.,	7 700704	4-3,77006-	2	20	-	5	1100
3.32/34+	4-3.09000-	2	3,30819+	4=3.14000	2	3.390/9+	4-2,90000-	2	20	3	2	1101
3.41530+	4-3,37000-	2	3.41544+	4-3,29100-	2	3.41690+	4=3,1120^-	2	28	3	2	1102
3.41789+	4-2.79700-	2	3.41856+	4-2.29000-	2	3.41902+	4-1.52060-	2	28	3	2	1103
7 410774	4-4 00010-	7	2 44055.	4 1 36000-	5	1 440604	A 1 44000-	5	20	ž	-	1404
3.419334	4-4.00010-	3	3141900+	- 1,00000-	2	01414044	4 3.01000	2	20	2	4	1104
3 41979+	4 6.34000-	2	3.41982+	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=1.84801=	п	3.42021+	4-1.50100-	1	3.42031+	4-1-1430(-	1	26	3	2	1107
7 470464	4 5 53666	5	3 45567.	4-7 74000-	5	3 400004	4-4 50000-	5	20	ī	5	44.0.0
3.42042+	4-4.22000-	4	3.42001+	4-7,70000-	4	3,420984	4-0,290004	2	20	3	4	1100
3,42144+	4-5,34030-	2	3.42211+	4-5,33000+	2	3.42310+	4-5.02200-	2	28	3	2	1109
3.42456+	4-4.8480	2	3.4/670+	4-4.79700-	11	3.47277+	4-7.45860-	2	28	3	2	1110
3 573204	4-1 30560-	1	4 565024	4-1 46650-		3 500424	4-1.52220-	4	28	3	2	1111
7 600044	4-1.09200-	+	7 60510	4.4 60.70	1	7 404774	4-11/2220-	-	20	ž	2	1111
3.00294+	4-1,01900-	Ŧ	9+065TA+	4-1,20070-	Т	3,000/34	4-1,40201	1	20	3	ζ.	1112
3,60777+	4-1,39780-	1	3,60843+	4-1.29970-	1	3.60897+	4-1.15016-	1	28	3	2	1113
3.60930+	4-9.37266-	2	3.60952+	4-6.76000-	2	3.60967+	4-1.69000-	2	28	3	2	1114
7 400704	4 4 64000-	3	1 410964	4 7 06000-	5	3 600064	4 4 08046-	4	20	ž	5	4446
3.007/04	4 4.01000-	4	3.009034	4 7 7 7 0 0 0 0 -	2	3.007704	4 1 20710	Ŧ	20	2	~	1115
3.61007+	4-3,50100-	1	3.01010+	4=3,03900-	1	3.61022+	4-5,22/00-	1	26	3	2	1116
3.61033+	4-2.39600-	1	3 ó1ù48+	4-2,63800-	1	3,61070+	4-2,30520-	1	28	3	2	1117
3.61103+	4-2.09800-	1	3.61152+	4-1.95520-	1	3.61223+	4-1.86090-	1	28	3	2	1118
7 41707.	4-4 70930-	7	2 61 491 4	4-1 76010-	-	3 417044	4-1 74000-	7	28	2	5	1146
3.0132/4	4-1-/900U-	÷.	94014014	4-1.70010-	T.	0.01/00+	4-14/4090-	÷	20	-	6	TTT 2
3,62038+	4=1,7380ú=	1	3.64970+	4-1.86950-	1	3.72174+	4-2,24340-	1	58	5	2	1120
3.83724+	4-2.77896-	1	3.93935+	4-3.22548-	1	3.93956+	4-3.20680-	1	28	3	2	1121
3.93970+	4-3.18210-	1	3.93080+	4-3.14340-	1	3.93985+	4=3,12130=	1	วิล	3	2	1122
7 03004	4-7 000000	-	3 04000	A_2 37251-	*	3 04044-	A_3 A3700	-	20	ž	2	44 17
0.40441+	4-3:09720-	Ŧ	3,740024		1	0+74U14+	4-0142/924	1	20	5	6	1150
3.94020+	4-3,39390-	1	3,94030+	4-5,36300-	1	3.94044+	4-5,33431-	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
4.126804	4-4 00820-	1	4.186374	4-4.40880-	1	4.221124	4-4.75370-	1	28	3	2	1126
4.120004	4-4.09020-	÷.	41100074	4-4,40000-	+	44661164	4-4 10070-	÷	20	-	~	1160
4.24886+	4-5,15290-	1	4 26774+	4-5,71020-	1	4,28060+	4=0,49150=	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+	Ú.	4.30399+	4-1.32500+	ρ	4.30527+	4-1.24680+	0	28	3	2	1129
4 10614-	4-4 125204	ō	4 30600-	4-0 61100-	4	4.30086+	4-8.85200-	٩ •	28	3	2	1120
4.000144					+	4 34 4 4 4		± .	20	3	5	4471
4.31073+	4-7,69400-	Ť	4.31388+	4=3./3600=	1	4:31664+	4-2,20000-	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. 14826-	4+3.35690-	1	4.36714-	4-3.73910-	1	4.304884	4-4-66560-	1	28	3	2	1133
A ATE474	A=A 24021	÷	A AGE 40	4-4 65440	4	A 60007	A_6 (174En -	*	36	ž	2	4424
		L			Ŧ	7.00023*		Ť	20	3	۲	1134
4.73903+	4-5,3540U-	1	4.73955+	4-3,26760-	1	4.73970+	4-2,19983-	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 73007+	4-5 35260-	-	4.74004+	4-5.65990-	-	4.740144	4-5.85000-	4	28	ž	5	4427
	4-2.32200	÷.			+			1	20	-	ć	1101
4.74021+	4-5,7248L-	1	4,74030+	4=7.0710u=	1	4,74045+	4-2.60250-	1	28	5	2	1138
4.74142+	4-5.49500-	1	4,74450+	4+5.46370-	1	4,77872+	4-5,43630-	1	28	3	2	1139

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and the second

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4.75252+	4-5.37900-	1	4.78477+	4-5,28720-	1	4.78644+	4-5.14780-	1	28	3	2	1140
4,73758+	4-4,94180-	1	4.76835+	4-4.64260-	1	4.78888+	4-4.2155	ĩ	28	3	2	1141
4,78924+	4-3.61860-	1	4.76945+	4-2.93000-	1	4,78965+	4-2.26300-	1	28	3	2	1142
4.76984+	4-2.1300ú-	1	4.76989+	4-2.10200-	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
4.7.1052+	4-8.06900-	ī	A. 79076+	4-7.46370-	4	4.701124	4-6.96540-	Ť.	28	3	2	1145
4.791654	4-5 56480-	4	A 70040	4-6 27140-	4	4.79356+	4-6 06740-	1	26	ž	r. ว	1144
4 705034	4-5 03966-		4 707684	4-0.27149-	1	4 904574	4-5 75110-	+	28	ž	5	1140
4 1 1 4 7 4 4	4-5-52900-	- 1	4.79700+	4-5 95501-	4	A 050644	4-2477110-	1	20	7	5	11/1
4 050754	4-5-74.000-	4	4 00067	4-5 95670-	1	4 05007	4-5 01480	1	20	7	5	4440
4,909/04	4-2,90900-	1	4.97903+	4-2.02030-	1	4,777974	4-2,91000-	1	20	3	~	1144
4,90911+	4=0=32800=	-	4,96617+	4=0.29010=	1	4,96025+	4-0.22120-	1	28	3	2	1150
4,96336+	4-6.16820-	1	4.96053+	4-6.13650-	1	4,96115+	4-6-09810-	1	28	3	2	1151
4.90109+	4-6.08840-	1	5.14951+	4-5.96230-	1	5.14957+	4-7,94010-	1	-28	3	5	1152
5+149//+	4-5.89010-	1	5.14996+	4-5,86810-	1	5.15015+	4-0,30916-	1	28	3	2	1155
5.15923+	4-6,24230-	1	5.15033+	4-6,18730-	1	5.15049+	4=6:14770-	1	28	3	Z	1:54
5.15105+	4-6,10230-	1	5,15155+	4-6,02,70-	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+	4-5.65336-	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
5.38000+	4-5,65330-	1	5,38240+	4-5.69640-	1	5.38759+	4-6.04720-	1	28	3	2	1156
5.39116+	4-6,1234u-	1	5,47792+	4-5.90360-	1	5.47904+	4-5.00550-	1	28	3	2	1159
5.47934+	4-5.72140-	1	シ ,47955+	4-5,59780-	1	5.47970+	4-5,43080-	1	28	3	5	1160
5,47979+	4-5.20500-	1	5.47985+	4-4.92910-	1	5,47990+	4-4.65463-	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+	4-0.74840-	1	5.48639+	4-6.53630-	1	5.48045+	4-6.36581-	ī	25	3	2	1163
5.48966+	4-6.25090-	1	5.43142+	4-6,10910-	1	5.43306+	4-6.04170-	ĩ	28	3	2	1164
5.50164+	4-5.97954-	1	5.62876+	4-5.83720-	ī	5.62942+	4-5.74720-	1	28	3	2	1165
5.62961+	4-5.67898-	1	5.62973+	4-5.59110-	ĩ	5.62982+	4-5.50110-	1	28	3	2	1166
5.52997+	4-5.66550-	1	5.63012+	4-6.53350-	1	5.63018+	4-6.38860-	ĩ	28	3	2	1167
5.63027+	4-6 26520-	1	5.63039+	4+6.16250-	1	5.63057+	4-6-08530-	1	28	3	2	1148
5 630844	4-5,20220-	1	5 63264+	4-5.95280-	4	5 660534	4-5.81070-	+	28	2	2	1140
5.689684	4-5.73210-	1	5.689784	4-5.73100-	1	5.68097+	4-5.77510-	+	25	3	2	1170
5 690154	4-5 10140-	+	5 690224	4=6 06600=	4	5 600324	4-6.01476-	+	28	7	5	1174
5 690474	4-0112100-	4	5 404484	4-5 92400-	4	5 01077	4-5 77300-	L.	20	7	5	1171
5 1070474	4-5 40900-	+	2.07140+	4+2470+ 4+5 47070-	÷	6 14007.	4-4 04140-	+	20	7	2	11/6
2.772314	4-2.02090-	+	0.03446+	4-3.4/0/0-	1	0.1120/+	4-4.70100-	1	20	3	~	11/0
6.10020+	4=4 23343=	4	5 2U27D+	4=3470500=	1	0.230/4+	4+0+27000+	1	20	37	2	11/4
6 47750	4-2.01900-	1	0.00U07+	4-2.30200-	1	6 49744	4-1+//000-	1	20	с 7	~	1170
6 50000	4+1+51090-	4	0.40/03+	4-5:10000-	Ś	0.40/14+	4#2.32000#	Ś	20	3	2	11/0
0,20082+	4 2,70000-	6	6,91014+	4 4.43000-	2	0.72080+	4-1.21000-	2	20	3		11//
0,02002+	4=2,11000=	2	6.53800+	4-0.01000-	2	6.53920+	4-7,72000-	2	28	3	2	1178
6.24986+	4-1.89100-	1	6.55918+	4-2.57000-	1	6.57286+	4-3.01908-	1	28	3	2	1179
5,59297+	4-3,28700-	1	6,62250+	4-3.30500-	1	6.73752+	4=3.27900-	1	28	3	2	11 80
6.00984+	4-3.39100-	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	7.13614+	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+	î.	7,53919+	4-3,25560-	1	7.58694+	4=3,15775+	1	28	3	2	1185
7.59395+	4-3,17100-	1	7,59588+	4-3,19630-	1	7.50000+	4-3.27060-	1	28	3	5	1186
7.69889+	4-3.33000-	1	7,70343+	4-3.20000-	1	7.95977+	4-2.96820-	1	28	3	2	1187
7,97576+	4-2,95150-	1	8.20436+	4=2,6494ù=	1	8.32579+	4-2,41730-	1	28	3	2	1188
8.38283+	4-2.27340-	1	8.54122+	4-1.53430-	1	B.57014+	4-1.24600-	1	28	3	2	1169
8.59191+	4-9.37200-	2	8.62642+	4-1.05800-	2	8.649924	4 1.02640-	1	28	3	2	1190
8,66591+	4 2.45320-	1	6.67679+	4 3.65260-	1	8.68420+	4 4.20217-	1	28	3	2	1191
8,68925+	4 3.98110-	Ŀ.	d.69258+	4 3,22720-	1	8,70000+	4 2,12700-	1	26	3	2	1192
8,70732+	4 2,02500-	1	6.71075+	4 1.28500-	1	8,72321+	4-1.99617-	1	28	3	2	1193
8.73409+	4-3.14840-	1	8.74765+	4-3,49390-	1	8,75008+	4-3,50400-	1	28	3	2	1194
8.77358+	4-3.36290-	1	8.80809+	4-3.02450-	Ĩ	8.85878+	4-2.62386-	ĩ	28	3	2	1195
8.87642+	4=2.50670=	ī	8.94029+	4-2.12680-	1	9.04267+	4-1.53346-	1	28	3	2	1196
9.10401+	4-1.12910-	3	9.16804-	4-5.12700-	5	9.203304	4-4.09106-	2	28	3	2	1107
9.27241	4-2,27400-	2	9.29718-	4-3,45300-	ò	9.34277-	4-5.24400-	2	28	3	2	1198
9.35000+	4=5.05100=	2	9.40989±	4+3,17160=	2	9.421504	4-5.03400-	2	28	3	5	1100
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9. 443//	+ 4	5.33310	- 1	9,86000	+ 4	2,34360	• 1	9.87623	+ 4	2.41450	- 1	28	3	- 2	1204
9.08086	+ 4	2.05930	- 1	9 87503	+ 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	-3.27410	- 1	1.00000	+ 5	-3.11070	- 1	1.00000	+ 5	5.99135	• 0	28	3	2	1207
.10100F	06	-54364F	- 01	10260E	0.6	.49315F	61	10370F	0.6	39636F	01	28	3	2	1208
104006	0.6	331075	01	106005	0.6	316616	- 11	106506	0.4	303255	61	28	ž	ົ	1200
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,108/0E	06	13255aE	02	.10910E	10	.16004E	02	.11090E	V6	.1/267E	02	26	3	2	1211
.11010E	06	16049E	- 65	.11070E	06	.12805E	02	.11100E	06	.11175 E	02	- 28	3	2	1212
+111/0E	Ūó	.85104E	-01	.11200E	60	,73728E	01	.11300E	06	.63606E	01	28	3	2	1213
.11400E	06	.578856	01	,11470E	06	.54790E	01	,11570E	06	,50312E	01	28	3	5	1214
.11000E	06	48949F	01	.11670E	06	45944E	91	.11800E	06	40312F	01	28	3	2	1215
120006	0.6	356476	117	120205	D 6	351106	-64	121205	0.6	324216	04	26	3	2	1216
122000	04	33403:	01	44230595	56	202205		122205	0.0	346010	01	20	ž	5	1047
124000	00	2/2/2	04	120000	00	20744C	04	120206	00	404675	01	20	2	~	1611
+1240UE	00	130/4/E	01	1242UE	00	137341E	01	.1250UE	00	.490632	01	28	2	2	1216
1272UE	00	123009E	-01	+120000	00	,59092E	01	.12600E	05	*20530E	61	28	3	2	1219
.12700E	06	40607E	01	,12720E	06	.39769E	01	.12920E	06	.35609E	û1	28	3	- 2	1220
.13000E	06	.27368E	01	,13J20E	06	.27294E	-31	.1312DE	06	.24476E	01	28	3	2	1221
.13300E	06	.19344E	01	.13320E	06	.19341E	01	.13500E	06	.19235E	01	28	3	2	1222
13520E	0.6	14643F	01	13646F	66	.213436	101	13620E	06	22988E	01	28	3	3	1223
.13720F	0.5	311125	111	13-000	66	376638	61	138205	0.6	406612	04	20	ž	5	4004
1 30700	04	240012	01	146606	0.6	477046	64	140205	00	407070	01	20	7	-	4000
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+14100E	00	.//32/E	01	.14200E	10	19/225	01	,143UUE	00	.12578E	02	28	3	2	1226
.14350E	00	,11579E	02	.14420E	ΰ6	104616	92	.14500E	06	91781E	01	28	3	2	1227
.14620	06	,76143E	01	.147005	06	.65773E	41	,14920E	06	•>1188E	01	28	3	2	1228
.15000E	06	45815E	U1	.150208	06	.44736E	01	.15300E	06	.29949E	01	28	3	2	1229
15320E	ü6	23759E	61	.15400E	6.6	.23945E	01	.15500F	0.6	-21927F	61	28	3	2	1230
15600E	3.0	31910E	01	15670F	6.6	549946	01	15700E	06	64805E	01	28	3	2	1231
158000	n 4	019100	115	154205	06	024765	0.4	150000	04	049476	04	20	ž	2	1222
110000E	00	1000000	01	1/076C	00	4767790	0.4	.137005	00	1140032	14	20	2	č	1202
.10000E	05	.93312E	01	.10070E	00	.092/1E	01	102005	00	.01/110	91	20	3	- 2	1233
,16270E	06	.774756	01	.1640UE	06	,69772E	01	.16570E	Q6	.61398E	01	ZŞ	3	2	1234
.16600E	06	.59093E	01	.16770E	06	,53154E	01	.1680DE	06	.51953E	01	28	3	2	1235
.16900E	65	,51798E	61	,17000E	06	,54344E	J1	.1710DE	06	,57344E	01	28	3	2	1236
.17200E	06	.55744E	01	.175JOE	06	.4760UE	01	.1800DE	96	.35695E	01	28	3	2	1237
14300F	06	43555F	01	18380F	06	27733F	01	18440F	06	44661F	ñ1	28	3	2	123A
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1927UE	96	,11586E	UZ	.19260E	00	.11/56E	32	.1936DE	06	,84699E	01	28	3	2	1241
,19510E	U6	.40307E	01	.19590E	₽0	,32916E	01	,19670E	06	40725E	01	28	3	2	1242
,19750E	06	,56914E	61	.19800E	06	.64513E	01	,19810E	06	.66934E	01	26	3	2	1243
.19900E	00	48318E	01	20280E	Ü6	,23487E	01	,20490E	06	44727E	01	28	3	2	1244
20500F	66	478176	61	204465	06	26716F	n 1	206505	06	941635	01	28	3	2	1245
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,21750E	06	.73090E	01	.21950E	Ĵ6	,56474E	61	.22000E	06	.63514E	01	28	3	2	1249
,22070E	06	.73378E	01	,22100E	06	.52715E	31	,22400E	06	.40104E	01	28	3	2	1250
.22500E	66	.34833E	41	.22560E	06	.31672E	01	.2283DE	06	.15051F	0Ĩ	28	3	2	1251
.23010E	06	18267E	01	.23200E	06	.44966F	5 1	-23260F	06	53406F	01	28	ã	2	1252
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.25500E	06	.41848E	01	,2562úi:	06	•55464E	u 1	.25700E	06	.40238E	01	28	3	2	1257
20790E	Ç6	.03542E	61	.250JUE	36	.63788E	01	.25870E	06	.65525E	01	28	3	2	1258
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.21/4UE	Ũ0	*34007E	61	•214 BUE	ΨC	.30307E	1. I	.7107UE	ШD	·303/0F	ωı	6 0	3	ć	1000
.51920E	06	.20476E	63	.515nCE	:06	.24170E	31	.52050E	06	.246795	01	26	3	2	1331
5214GE	0.	205716	1.1	5221 DF	1.6	22671F	ā 1	.52256F	6.6	234716	64	28	3	2	1332
		1	6.5	6 11 20E		604745		654745	6.5	610740		26	ž	<u>_</u>	4271
.7432UE	5	,3-3/1E	Ψ	. DESCUE	10	.963/1E	- J #	175439E	6.0	*23011E	01	20	3	4	1030
.=2490E	0e	.404721	61	,525455	÷2€	40372E	11	.5263GE	06	34672E	01	- 58	3	- Z	1334
112690E	C.A.	367728	11	.52760E	** 6	. 42372F	:1	-52786E	C۸	47372=	01	28	3	2	1335
		4.5776		EDCADE.		174725		6000CC		510770		20	-		4 2 2 4
1204UE	60	+4/2/3E	63	.767198	60	14/0/JE	67	. 727905	60	1213/35	91	20	3	۲,	1000
.>306GE	60	.51466t	C1	.23150e	-16	.44E73E	1 ک	.53210E	06	,41374E	61	28	3	2	1357
. 23300F	ũ -	.34231E	13	.53420E	10	.37674E	-31	.53660E	66	.34775E	01	28	3	2	1335
5 175 AE	n.	1-176	6.4	677576	16	466765	. 1	536646	n.	347745	64	78	ž	-	4 170
1 STEUE	00	1021725		1207000	20		· -	6 . COOC		-30//62	UT.	20	5	~	1037
	Jo.	.311/6E	11	。シタルビリヒ	₽ ₽	.202/6E	-4	.24080E	86	.JL076E	61	28	5	Z	1340
.24120E	06	.34676E	61	.54150E	J6	.45077E	11	.54250E	66	.39377E	61	28	3	2	1341
1	C 4	3.7776	61	544485		314775	r P 🏚	547005	0.6	2717HE	64	28	1	5	1345
	50	1341112	63	JUL	•••	1344776		- J=7000	00	12/1/05	01	20	3	2	1042
.,∠4908E	06	,249/9E	61	.2490UL	90	.239/9E	C 1	,770/GE	60	.2007YE	01	28	3	2	1343
.=>130E	Ľ٨	.20379E	C 1	.552506	υÓ	.246ddE	-1	.55310E	0e	.2998CE	01	28	3	2	1344
-22.570E	80	4.280-	11	-55410E	6	.481mdF	-1	-55470E	06	51680F	61	28	3	2	1345
	1	440000	64	EELDDE		145646		SELECE	2	202010	14	20	ž		4244
• 33310F	ບາ	1444010	01	1.22390C	30	112010	· · · #	133030E	00	1534476	01	20	3	2	1340
, 22750E	0.	,23581E	61	.55010E	-16	.:9581E	J1	.55870E	06	19482E	61	28	3	2	1347
59102	6.0	242521	111	550486	116	.34662F	61	.55900F	86	412825	ព ។	28	τ	2	1346
	22	1272022		540005	34	214300		5446A5	64	24282		20	ž	5	47/0
.2000UE	05	. ~ 2002E	0.2	*20-19UC		101407E	11 1	· 201205	ΨĐ	*C442565	OT.	20	3	2	1349
-2665°s	٦e	,106£3E	(1	,5635GE	96	.17103E	₫1	.56460E	06	.17183E	01	28	3	2	1350
. 255ERE	0.	.1.3684E	11	.56710E	ι6	.25384E	61	.5677GE	0e	.39984E	01	28	3	2	1351
A 5 0 0 C	1. A	1.0055	6.4	640505		266465	44	576405	54	ALASE		26	2		1162
4 YOUND	0-	100 Jean	61	• 20 9 JUE	00	1303036	21	1 J / UNUE	00	1-0407E	61	20	3	~	1092
.2725JE	36	.4SCOEL	61	.5731út	26	.457HOE	@1	.57370E	95	.465P6E	01	28	3	2	1355
-5/430F	ù ti	49386E	61	.57510E	06	.50300E	91	.57540E	06	.57387E	01	28	3	2	1354
DIDADE		644676	11	576055	ũ.Ă.	615#JL	- 1 -	57670E	0.6	456876	04	28	ĩ	2	1355
• 37 300E	90	, 307676	6.4	57505E	00	1010000		57700C	00	40.0075	01	20	-	2	1771
*211COF	06	.43/J/E	61	. 7// SUE	60	41/0/E	91	. 3//YUE	UD	.4000/E	01	28	3	2	1926
. >7840E	0.6	.41687E	11	.579008	ü6	.36540E	31	.58010E	06	.32#88E	01	28	3	2	1357
	£	112000	6.1	SH1 306	5.6	105aal	01	-5-22CE	66	340800	n •	28	τ	2	1356
- A DUTUE	0.3	1277616		- 20100L	90	, 303000		SUAAAE	00	067095	01	00	-	-	4750
• 10310E	05	*3006AF	61	,58370E	ΰÐ	.22009E	21	.784602	00	•22/89E	U1	26	3	2	1359
. 20560E	05	.26459E	[1	.58550E	00	.2189SE	61	.58610E	06	.18590E	01	28	3	2	1360
1-670E	6.6	10.00F	6.1	5H740F		2249 6	01	-58800F	Ô6	191905	01	28	3	2	1361
	0	247065	6.4	60.205	0.6	176015		500605	04	407015	ñ.	26	ž	5	1340
· 2007 0E	40	.23/946	C.T.	. 2073UE	10	1000ATE	- T 1	, ,,,,,,,,	00	177/71C	91	20	2	6	4002
,59040E	00	41391E	61	.59110E	υÓ	,346916	F1	.59150E	06	,3>691E	61	28	3	2	1363
- +2665	0.6	259921	12.1	.59336E	36	.20942F	1.1	.59420E	06	.18592F	61	28	3	2	1364
	0.	160000	04	50620C	64	204020		LUCEAC	04	200025	64	20	7	5	1742
.3940UE	0.0	100920	6.1	.24230E	90	.20492E	-01	*33320E	00	• C11449E	01	20	3	2	1905
.59590E	65	,21693E	61	,5966úE	ЮÓ	.21093E	61	.59730E	60	. 18893€	01	25	3	2	1366
29790F	(+	13193F	61	.596802	116	.14493F	21	.60000E	66	.1E794F	a 1	26	3	2	1367
4.0405	0.4	255045	0.1	601106		1170/6		601705	0.4	35004C		29	ž	2	1746
40000E	00	15334-6	01	POSTTOC	00	.30/940	.01	TOUTOUE	00	1020745	01	20	2	~	1000
.61160E	06	,31694E	61	40220E	U Ó	.30494E	01	.6031GE	06	.38594E	01	28	3	2	1369
.64360F	06	493946	Ú1	.60420F	06	.52094F	G1	.60510F	60	.42794F	01	28	3	2	137e
L SANC	67	44.2020	14	A06106	- j 4	464045		AGAEAE	n.	52704F	04	20	7	5	4774
•0.20(E	45	413746	44	"COOTHE	10	,400341	11	.0007UE	00	+J2/745	01	20	3	4	10/1
.60700E	06	.54494E	01	.6072DE	06	.58994 <u>5</u>	01	,60770E	06	• 5 3994E	01	28	3	2	1372
.60810E	65	.51294L	61	.60860E	60	.52094E	91	.60990E	60	.55594≘	01	28	3	2	1373
6.0 (nc	ĥ.A.	STALLE	64	60070F	a A	946 JAL	0.1	61060E	66	507CAE	04	28	3	2	1374
+00300C	00	427077E	· ·	1009702	00	1010770	- F	TOTOUCE	00	300000	0.1	20	1	~	4.7.42
.0116UE	Q 6	49994E	ίL	.61340E	06	-37694E	e1	+6148DE	U6	• 32M94E	01	28	5	2	1975
.61600F	06	.31794F	61	.61780E	ü6	.33094E	Ũ1	.61880E	06	.36994E	01	28	3	2	1376
61070E	0.4	42505E	61	.62070F	нĂ	465055	61	62110E	N.A.	462055	ñ1	28	3	2	1377
1017/UC	00	*******	01	102070C	00			A DE TTRE	00		U .	20	2	4	4 2
.02180E	V 6	40595E	01	•02220FF	ŰĊ	.31495E	01	.02330E	06	+29295E	U1	26	3	2	137ë
.6242DE	05	.31895E	e1	.62490E	96	.34695E	J1	.62540E	06	.34195E	01	28	3	2	1379

.02550E	66	.3:655=	[]	.6264GE	6 س	,48295F	P1	.62680E	06	.540955	01	28	ف	2	1380
	60	.34695E	6.1	.62050E	j6	.31095E	1	.62900E	06	.27666F	01	28	3	2	1381
52920E	06	26295 F	61	63000E	5.6	23445E	71	63070E	0.6	29595E	<u>_</u> 1	28	7	2	1382
+ (150C	ň,	220651	6.4	47400E	14	444055		430100	0.0	473050	<u>.</u>	20	ź		4147
.031200	00	.33442E		.00190C	r 0	-1-326	11	.032100			11	20	-	4	1203
. 23290E	06	+39355E	. L1	,0334UE	60	.321955	U1	.0338UE	00	·206955	¥1	28	5	2	1354
.ej43UE	G 6	.29695E	(1	.634e0E	JU	316952	-91	,63530E	96	3~6955	01	28	3	2	1365
.03580E	96	,30095E	61	.636d0E	60	.32195E	- 1	.63750E	06	-31-695E	01	28	3	2	1396
.63620F	616	37795F	11	.63950F	⁰ 6	.49695F	.11	.64000F	6.6	.524952	61	26	3	2	1367
04050E	0.6	631656	. 1	64170E	4.6	445456	0.4	445705	a č	441955	64	20	7	2	1 2 8 8
5 5 5 0 C	0.0	4437356	64	44200C				1040200	00	757055		20	2	5	4 7 6 6
.7492VE	UC	40277E	UL	1042AAE	90	.423978	- 1	.04/2UE	ΨĐ	137/975	01	20	3	2	1303
.54620E	65	.38495E	11	.64900E	56	.45075E	-t 1	.64950E	06	•53796E	91	28	3	2	1390
-000E	96	.57796E	61	.65020E	J6	139396E	-01	.6512GE	60	.49796E	C1	28	3	2	1391
.05200E	06	.39796E	- L 1	.65280E	36	. 35796E	51	.65380E	06	.37796E	61	26	3	2	1392
.co430E	0e	42546E	61	.6545CE	26	44596F	1	. 6556BE	06	-35696F	01	28	3	2	1393
456106	04	2.14045	6.2	457466		103045	(1	652405		197945	0.4	28	2	2	1104
1 20105	00	1004706		,0J/40E	6.00	120030E		1020405	00	11777QE	11	20	4	5	4705
.0092UE	05	.22340E	01	.039/JE	0C	*5ATA0L	11	.00UZUE	00	• 37 / YOE	61	20	3	2	1342
.ch070E	66	.46496E	61	,66120E	j€.	.47896E	-01	,65230E	69	.36596E	01	28	3	2	1396
.06310E	06	-321+cE	01	.66380E	66	295yot	-01	.66440E	06	.34496E	01	28	3	2	1397
. 0510E	Ue.	.33496E	61	.60590E	86	.25046E	11	.66670E	06	.209965	01	28	3	2	1398
	0.6	247465	4.1	.66c5#F	-16	20446F	1.1	.66866F	R.A	26.996F	01	28	3	2	1.599
	04	161656		471.06.5	14	243746	3.	A7030E	64	307046	0 4	20	ž	5	1400
• · · · · · · · · · · · · · · · · · · ·		125670E		+ D7 0 5 0 E	10	1000/IE		+0/02VE	0.0	107/70F	31	60	-	2	4 4 0 4
. /U/UE	0.0	+42996E	-51	e/120E	00	.38096E	- - 1	.0/1/UE	00	4139CF	ьР Д	28	3	1	1401
	06	43856E	61	.67360E	36	.45996F	01	.67410E	06	.4 63965	®1	28	3	2	1402
. 37490E	05	.50796E	61	.6757UE	56	.47596E	01	.67650E	05	.47696E	61	28	3	5	1403
10/740E	6 m	.44296E	C1	.6732UE	зé	.37296E	01	.67870E	06	.34296E	C 1	28	3	2	1404
N7550E	46	45.4 MA	6.1	66. 466-	36	47632E		68060E	06	401965	01	28	3	2	1405
1 00		4024200		AUDECE		2550022		497705	0.4	417045		20	7	<u>,</u>	1 4 0 4
1 11/UE	25	-4527CC	01	+0023LE	99	.303735	- 4 L	.003385	6.6	.41/900		20	2	2	1.000
• 410E	69	43046E	13	.60520E	00	.399972	J1	.0460PE	06	.39897E	C1	28	3	2	1407
. <u>ar</u> 696E	Û'n	.35097E	[1	.6077°E	00	.35897E	^1	.68850E	06	.34097E	61	28	3	5	1408
.0~93UE	05	.3+697E	11	.68990E	6	.43247E	-11	.69000E	66	.44514F	01	29	3	2	1409
	35	.50557t	(1	.6913CE	1.6	.434y7E	61	.69180E	06	.40397E	91	28	3	2	1410
1.4240E	6.6	100472	1.1	64 .0.01	:16	406 7F	.11	.69380E	66	271.975	01	28	3	2	1411
	11.4	1077C	11	604005			11.4	405786	04	373076	fa 4	20	ž	5	1410
- C3-30E	10	1204976	. L L	.0749UE	30	12/37/6	21	.075/02	00	13/37/6	01	60	3	ź	1412
.OYECUE	0e	+40 JY/E	11	. 596 6UE	4+ C	· 326415	ů.Ť	.0Y/4UE	00	.2199/2	01	20	3	2	1413
.⊍¥8C0E	96	-20347E	[1	.69060E	-26	.19497E	21	.69910E	06	124897E	C1	28	3	S	1414
165970E	05	-37397e	C1	.7006GE	., 6	.39197E	91	,70000E	06	43497E	01	28	3	2	1415
.7017JE	06	.40597E	(1	.70250E	76	.52597E	91	.70310E	05	51297F	61	28	3	2	1416
11.4505	40	366976	11	70540F	16	44997F	61	70620E	ሰል	399372	61	28	3	2	1417
21 6605	0.	47167-	61	707706		250075	54	700106	04	1.16075	64	20	ž	2	1 4 1 2
* / COUE	0.0	**/37/E	24	74.701			· +	1107100	0.0	1002770 045070	01	20	3	-	1410
./.9/UE	00	.2/44/E	61	.710306	JO	.2/29/5	01	./10002	00	+2079/E	01	20	3	~	1419
./1140E	06	.522215	1.2	./12PUL	60	.20197E	1.1	./1310E	06	·30597F	01	28	5	2	1420
,71370E	06	,29797E	63	,71460E	46	.29397E	-91	.7161DE	06	,22197E	91	28	3	2	1421
.71720E	06	.17697L	61	.715/0E	50	.186y7E	01	.71960E	06	.233975	01	28	3	2	1422
.72060F	40	.326971	63	.72140E	16	- 34597E		.72190F	0.6	.35397r	01	28	3	2	1423
722505	0.6	347975	61	79430F	<u>6</u>	. 27697E		725206	06	280975	n 4	26	ž	2	1424
704700	04	240076	14	707706	36	247076	04	738845	00	273075	04	20		5	1035
./20/02	00	-31277E		.727302	00	+31/9/6	at.	1/200UE	5.5	12/37/5	0 L	29	2	~	1427
./290UE	ue.	+2004/E	e I	./3000E	00	.2209/E	61	./ JUDUE	00	•2254/E	01	28	.>	2	1420
.73120E	Ũ6	125597E	11	,73130E	06	•25897E	ι1	.73240E	06	·213975	01	28	3	2	1427
.73300E	06	22497E	11	.73360E	f•6	.28397E	°1	.73420E	06	.228975	01	28	3	5	1424
1352 DE	0 n	14397F	()	73649E	36	.11497F	a11	73730F	0.6	.15997F	61	28	3	2	1429
747005	64	103675	1.4	739106		361375	6.4	730705	04	245975	1.4	28	R.	2	1430
TACTOR	00	244075		741005	2.6	101056	C 4	741405	04	144086	04	20	x	5	4 4 7 4
1/1000	00	447055	4 4 6 4	246.505	00	410000	ο.	747405	00	448061	04	20	U Tr	2	4 4 7 0
./422UE	00	•11/YCE	61	1425UL	60	+115AOF	01	+/404UE	00	•146AQE	1	20	2	6	1-25
.74440E	06	24USEE	ÛĴ.	.7450CE	(±6	.26298E	81	.74530E	06	.222985	91	28	3	2	14'3
,74590E	0é	.23796E	(1	.74620E	36	235985	(1	.74810E	06	127798E	01	28	3	2	1434
. 14870F	96	.25396F	61	.7490DE	66	.25798E	d1	.74930F	06	.26598F	01	28	3	2	1435
14970F	36	29296F	11	7500CF	06	29148F	ü 1	75030F	ú A U	-25998F	21	28	3	2	1436
751205	D.p.	SEQUAL	61	75:50F	ű.A	371935	a1	751005	ñÃ	340985	ก้า	24	3	2	1417
763400	0.4	DAUGEE	0.5	767705	64	243045	C •	764405	n 4	204000	04	20	ž	5	1420
,/20105	06	+200YCE	1.1	./23/UE	10	.20370E	01	./244UE	UO	*KAGADE	91	20	3	4	1-20
.75660E	06	.30298E	61	.7572CE	96	.40498E	61	.75760E	ť6	139198E	01	28	3	2	1439

1441	1441	2442	5443	1444	445	1446	1447) ም ነ ቢ የ ዓ	1452	1453	1454	1455	1456	1457	1456			1462	1463	1464	1465	1456	1467	1468	1404	474	1472	1473	1474	1475	1476	14/1	1479	1480	1481	1484	1494	1465	1466	1004		1400	1491	1492	7467 I	1495	1496	1497	1498	~~-7
(N	2	2	~	2	2	N ((N (v	v 0	n 1	2	N	~	∾	N	N	2	~ 0	v 0	• •	10	2	N	2	•••	()	~ ~	n 0	u (N	2	(V	~	N C	2	10	2	() (N C	1	N	~ 0	NC	v ()	• (\	2	N (N 6	<u>~</u> ~	• ••	t N (~ ~	v
ю	M	5	n I	H) -	m	1	י ו	9 M	7 M	ריי ייי ר	5 M3	(14)	m	ю	cu)	ı¢) ا	in i	0 N	n 1) M	в	t)	H)	3	P3 (19 E	3 14	b M) M	2	ю	10 R	13 F	0 M	o ro	ю	1	9 14) M	ю	P3 P	0 1	5 M) M2	1	193 I	5	0 M	1 113	M (13 (1	0
28	26	9	¢ ∕	28	28	80 (N)	60 (C		0 U 0 V	9 G	0 (Q V) V	9 0 1 0	80	30	£9 €	28	56	10 J	0 U 0	5 10 1 ()	0 0	5	8 2 8	Ω N	26	6) (v)	10 C	2 0	00 (C) 10 (C)	2 2 2 2 2 2 2	28	800	50	10 G 0 V	200	28	50	20 0	3 GD -	26	50		0 U 0 U	20	5			200	101	36	(/ () ()	27
01	6	۲۹ 6	43	73	6	H O	61	5		-1 - 5 - C	16	10	6		5	10	H	н, Бе	5 6	ė	14	6	07	5	01	e4 -	-	i e	ie	50	5	1 0	53	5		12	50	22	56	5	5	52	213	5	11	5		22	;6	10	50	4 3
.444986	349965	.172985	3333955	36496	.410985	.329986	276565	100000			237985	140061	371966	346985	349966	.348576	B724976	167976		1904CE.	106514	377965	.405966	.31195E	329955	336925	- 45890E	10000 V	100404	156946	.24593E	.232935	259535	とうかなにつ。	254925	16692E	346925	3256/24	50391	417916	309915		-16/014 -16/08	411965	3935996	32769E	.29689E	.261885 .261885	19695	395865	,35387F	210100
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. 777JUE	0.6	.30162E	01	.99130E	00	,34232E	-91	.99270E	06	.31552E	U1	28	5	- 2	1515
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.1030E	07	.33772E	۲0	.10670£	07	.21172E	21	.10700E	07	.233715	61	28	3	2	1525
730F	67	.31071E	ũ î	10750F	67	244156	i-1	10760F	07	.211715	6.6	24	3	2	1524
.7000	07	21.705		109105	. 7	370.06	14	109705	07	4.44.05	~÷	3.	ž	5	4637
110/202	07	1312/0E		TOUTOE		-37037E	51	,IUGJUE			UI.	20	3	~	1721
-1 00UE	07	.3/409E	71	.10490E	27	.301085	-91	.10930E	07	•19307F	61	28	3	2	1520
.13960E	67	.17467E	91	.109e0E	ú7	.25567E	61	.11000E	Û7	.30199E	01	28	3	- 2	1529
,11010E	67	. 32366E	01	.11v40E	£17	23956E	91	.11050E	67	.304485	C 1	28	3	2	1531
.11130F	67	.37654H	01	11120E	.i7	35754E	2 1	.11140F	C 7	435645	61	28	3	2	1531
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,11200E	07	+14451E	01	,11516E	u/	.2/901E	91	,113505	97	91<065	01	20	5	2	1233
.11330E	07	.21559E	-51	.1139CE	67	19659E	51	,11409E	07	23 59	01	28	3	2	1534
.11430E	07	.37453E	U1	.11459E	ι7	.36858E	ΰ1	.1148GE	67	.3265hE	01	28	3	2	1535
11500E	67	.36357e	41	.11520E	.1	.37527E	91	.11540E	C 7	.42757E	01	28	3	2	1536
113605	0.7	45.9545	.11	116006	07	120545	01	114305	~ 7	344555	0.1	28	ĩ	2	.677
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.11/206	C 7	40624F	91	.11740E	٩7	-27454E	91	.11770E	07	.17253E	01	28	3	2	1539
.1179UE	07	,22253E	91	.11~00E	ć 7	.24753E	91	.11820E	07	.25453E	91	26	3	2	1543
.11960E	C 7	.396520	U.L	.11-95E	57	.31552E	01	.11920E	67	.36/515	01	28	3	2	1541
112940E	07	.33349	ü 1	11970E	17	-255-6E	6.1	11996F	67	-26743F	6.1	28	3	2	1542
0.005	1.7	27145	11	10.505	17	201 466	14	120505	6.7	26+370	°.∔ ∩.4	26	ž	` `	4547
,12000E	27	46/1765		404065		1270 - VE	ъ.	,120908	07	-3-03/E	61	20	2	~	1243
.1/03UE	3/	.20100E	21	-1215ac	11	-33/31c	U1	.12129E	e /	.3/9295	61	28	5	-2	1544
.12130E	07	.33728E	01	,12150E	j7	.34720E	61	.12170E	07	,27224E	81	28	3	2	1545
12170E	07	.33121E	θT	1221JE	7	.42019E	.1	.122202	67	.43.18F	31	28	3	2	1546
240F	C7	.378166	31	12260F	. 7	42314F	81	12276F	67	46 11 3E	01	28	3	2	1547
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,icseut	07	.240J/E	31	.1234Uc	• /	.20207E	·1	.12350E	U7	•31°94ē	01	28	5	2	1549
,12360E	07	.39403E	61	.12370E	57	424.2E	61	.12380E	07	.4250FF	v 1	28	3	2	155r
12390E	07	.39579E	31	.12410E	7	33597E	01	.12430E	07	25195-	01	28	3	2	1551
12450F	07	27793r	11	12470F	67	29991F	1	12490F	67	-30 SEAF	01	28	3	÷	1550
125106	07	354546		124.935	.7	374.60	04	125405	07	326476		26	ž	5	1667
11E - 10E	~ 7	2/370°E	0.	10.10		246.175	23. 11.4	104465	07	102-00-0-0-	L I.	20	3	4	1223
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.12530E	07	.35173E	41	.12650E	97	36971E	01	,12670E	07	.33269E	01	28	3	2	1555
1259DE	07	,28657E	51	.12700E	ij7	.26205E	91	.12720E	67	.350635	01	28	3	2	1556
12740F	07	. 39561F	61	.127606	ð7	.36757F	31	12770F	07	JJ958F	01	28	3	2	1557
127305	67	.275576	61	123005	07	.350555		128105	07	367536	04	26	ž	-	15.2
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.12590E 87	.42945E	ίú	.12910E	υ7	.45143E	F1	.12930E	07	.502405	01	- 28	3	2	1560
12950E D7	463386	61	12460F		40337F	a1	129905	67	304345	01	28	3	2	1561
140005 07	246436	- 41	36206	87	349405	21	13050E	67	337275	61	26	3	- 2	1562
140205 07	703014	01	424102		244 305	51	121405	0.7	374446	01	20	ž	5	1542
.13J3UE U/	. 32123E	01	.1011UE		, 34020E	31	+1314UE	07	.0/0105	01	20	3	~	1003
,13160E 07	,45514E	61	.13190E	(F Z	.44010E	11	.13210E	07	.35008E	01	59	ి	2	1504
.13230E 07	.31006E	61	,13260E	07	,36902E	-51	.13280E	07	.351002	01	28	3	2	1565
.13270E 67	39399E	61	.13300E	07	.39497E	01	.13320E	07	.42595E	61	28	3	2	1566
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1 44006 (7	10-0746	6.4	174405	37	(21 LAE	24	1 74405	0.7	Taeanc	64	24	7	2	1544
113400E U/	1022170		.134100		1001040	U 1	1104406	0.7	446337	01	20	-	5	4540
,1347UE 0/	425/9E	ű1	.134/05	21/	.410/0E	01	+1349UE	0/	400/35	01	20	3	2	1204
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.15700E 07	3/749F	01	13/14	17	345735	01	-13740E	07	.37941F	01	26	3	2	1573
147505 07	3.524		137-06	.7	198735	64	138105	07	371225	04	26	- Z	2	1574
+10/JUE 0/			470406		1020100	01	1 20 202	07	371075	0 T	20	ž	5	4575
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.13960E 07	.23132E	01	.13990t	J 7	.27115E	01	.14000E	07	,29198E	01	28	3	- 2	1577
.14020E U7	.3 276E	u1	.14.506	7נ	.2504JE	91	.14060E	07	.25032E	01	28	3	2	1578
.14080E U7	.3.010E	01	.14120E	7	.31866E	01	.14140E	07	29744E	31	28	3	2	1579
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.14360E L7	.3:303E	01	.144.UF	.,7	.31259E	01	,14420E	G 7	.208375	81	26	5	S	1583
.14440E L7	.25+15E	υ1	,144cCE	97	,30371E	-91	,14500E	07	.346499	01	28	3	2	1584
.14520E C7	.35739E	41	.14550t	-17	.30423E	91	.14560E	67	.29918E	01	28	3	2	1585
.14600E 07	32697E	i 1	.14650E	ji7	.39671E	31	.14670E	07	.39161E	01	28	3	2	1586
- 47108 07	4.7466	2.1	14750E	27	296245	n 1	14780F	07	296045	01	28	3	2	1587
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-14/7UE U/	1020796		1 7 102		1007225	21	*140TAE		10204CE	01	20	3	~	1200
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. 492JE 67	.JuyUSE	61	.14-40E	4/	.36250E	F1	.150C0E	07	.36801E	31	28	5	2	1590
.1:010E 0/	.37998t	ь1	.15 i 46ë	57	,34321E	61	.15070E	87	,28244E	91	28	3	2	1591
.151008 07	.219661	ι1	.15110E	ių 7	.21874E	J1	.10160E	07	.329125	01	28	3	2	1592
.1-170E 07	33-20-	ม1	152n9E	17		01	15290E	07	29511F	61	28	3	2	1593
153205 67	2.91.345	01	15 (045	17	2486uE	ñ1	15420E	۵ 7	.241105	01	28	3	2	1564
154605 07	212441	6.5	164-0E	÷.7	154545	-14	154005	07	164415	04	28	ž	5	1505
104002 07	2 741	01	166506		230420	1	155400	0 7		01	20	3	5	4504
1000E U/	-323/1E	01	1352VE	"	12/002E	64	1220UE	07	.234425	01	20	3	~	1790
.10000E 07	.21733E	61	.156JUE	4/	.33023E	C1	.15620E	07	.310146	01	26	3	Z	1297
.15540E 07	.20704E	U1	13660E	07	29495E	01	.15690E	07	. 31980E	01	28	3	2	1590
.15730E C7	,27161E	01	.157/0E	₹7	,29542E	ú1	,15790E	07	.28132E	01	28	3	2	1599
15920E 07	.36118E	61	.15040E	67	.29909E	61	.15890E	07	.27385E	61	28	3	2	1600
15920F 67	212706	6 1	15968E		.18151F	21	1509nE	07	204375	01	28	3	2	1631
160006 07	21-321	61	16 20F	47	24657E	61	16030E	67	244655	01	26	ã.	2	1682
.1000000 07	644 204	. 4		22	047070		440805	0.9	TASEDE	01	20	ž	5	4407
.1000E U/	.2352UE	01	.15JOUE	37	12434/E	U L	. LOUGUE	07	•31 72E	91	20	2	2	1003
.10100E 07	4080/E	61	.10119E	97	,41/64E	31	.10130E	07	.30439E	01	28	3	2	1004
.1016JE 0/	. 32272L	01	.161-3CE	07	.30227E	01	.16210E	07	.30659E	01	28	3	2	1605
.1524JE 07	.20392E	01	,16270E	კ7	.32124E	91	.16280E	07	.30702E	01	28	3	2	1606
.10310E L7	.23734E	ù1	.15350E	97	.24444E	31	.16390E	07	.23954E	81	28	3	2	1607
164108 67	24 109F	6.1	16420F	à7	22967F	ā1	16450F	07	270195	61	28	3	2	1608
444496 07	273046	64	44200	47	240510		146000	a.,	276040		29	ž	2	4400
TCADOF C1	.212700	01	104CUE		.200512	01	1030UE		12/7UDE	U.L.	20	3	-	1007
,10020E 07	,27321E	Ul	.1075UE	97	.407205	61	.1020UE	07	.20/49E	01	20	S	2	1010
.16590E 07	2>47BE	ΰ1	.16620E	57	.25391E	01	,16650E	67	.35913E	C1	28	3	2	1611
16670E 67	.37227E	61	.16600E	67	,35434E	Ű1	.16710E	07	.33655E	01	28	3	2	1612
.15720E 07	.33462E	01	,167∋0E	υ7	.50784E	61	.16760E	07	.31091E	01	28	3	2	1613
.16800E 07	25319F	ป1	.16e30≘	07	.2664uE	01	.16870E	07	.27969E	01	28	3	2	1614
168905 07	251836	6.1	164306	7	209115	01	169505	07	204265	n 1	28	3	2	1615
140705 07	22.24	0±	17/ 100		(13445	u∎ 14	170000	67	244250	04 04	20	ž	5	1642
LOY/UE U/	122337E	01	170JUE	0/	-31351E	11	+1/02UE	07	10100/2	01	20	37	~	1010
*1/UFUE U/	.3/414E	01	.1/00UE	0/	137190E	U 1	+1/00UE	0/	.J2/00E	11	20	3	4	101/
1/100E 67	.33443E	Ul	.1/11UE	07	.32231E	J1	.1/14DE	U7	.37196E	01	28	5	2	1018
.17170E U/	.32160E	61	17200E	ü7 -	127625E	61	.17220E	07	.26201E	61	28	3	2	1619

.1/240E	07	.23970E	01	.17260E	-y 7	20404E	21	17290e	€7	2:7195	01	28	3	2	1670
17320E	ū7	.25764E	01	.1734LE	.7	.25950E	.,1	.17370E	07	.27425=	01	28	3	2	1621
17400E	07	251898	61	17 42 0E		.205065	1 1 1	.17440E	07	215425	01	28	3	Ż	1622
.17460E	07	.25519H	01	17500E		.255718	01	1754uE	67	24325-	01	26	3	2	1624
175506	m /	255145	6.1	175005	.7	- 16h67F		176005	67	.2-756-	6.4	26	ĩ	ົ່ວ	1624
176306	a 7	215215	- 71	174565		203345	1	176705		21 4765	01 10 10	28	1	ົ່າ	1436
1/6005	07	216516	4.4	177305		200202		1776AC	0.7	373675	0 4	20		5	1434
177700	07	1235516	للد لي. منا	.1//2WE	¥رن جري	- KCII/7	1	.1//205			01	~ ~ ~	2		1020
+1///68	27	127579E	01	-1/200C	1	.236298	. С.Т.	.1/5305		123307E	81	2 D	3	ć	102/
1/00UE	u/	•22374E	10	.1/0/02		.230435	- 1	.1/9000	- U /	•2*496t	61	20	్ర	2	1625
*1/A20F	07	-341/3E	01	,1/95UE	~ 1	.300005	61	,17980-	U/	• 37 12E	-91	2.4	5	- 2	1079
.17990E	07	.38504E	91	.1000JE	6 T	.375925	- 11	.1 5020E	07	.34519F	61	- 28	3	- 2	1630
,1:05JE	07	.34259E	01	.1898Uc	u 7	.366995	- 1	.18120E	ũ 7	,31:525	61	26	3	2	1631
.1-150E	07	.271928	61	.181 802	-, 7	.24652E	د i	.19200E	97	.213595	61	2e	5	5	1632
,10220E	07	.23385E	01	.18240E	J7	.24312E	-01	.18250E	@ 7	.24 x25E	01	26	3	2	16.75
.10280E	97	.21765r	61	.18320E	an 7	.21517E	-91	.18350E	37	.25459E	61	28	3	2	16.54
15380E	27	.24199E	61	.10410E	.7	.249355	.1	.18430E	07	A25-65+	01	26	3	2	16.55
10450E	07	29992F	01	.18490F	77	-26145F	61	1H500F	6.7	201595	6.1	28	3	2	1636
15205	67	241436	01	155605		253145	1.1	186005	07	267822	c i	28	ž		1617
14105	65	246742	- 64	146305	. 7	200100	11	196765	07	17-266	44	20	ž	5	161-
1.7205	07	175005	1	167502		164476	54	197905	07	102445	0 4 0 4	26	Ť	5	4680
4.107402	07	-1/JANE		169466	7	245035	04	1627000		955760	0.4	20	7	5	1001
1 39505	0/	.23013E	01	1004UE		.203935		.100/WE	07	1207/20	01		3		1041
,1088UE	07	.2040/E	01	.1891UE	19 Z	-20244E	11	.15930E	07	.23229.	01	24	5	2	1941
760E	07	.25106E	01	.19 600E	67	129555E	11	,19010E	97	.3₽66⊎E	61	28	3	2	1642
.19030E	07	,29231E	-01	.19060E	07	.274∉7E	01	.190805	0 7	.27153E	61	28	3	2	1644
.19100E	G 7	.23529E	01	,19110E	27	.285146	31	,19120E	Q 7	.271665	61	28	3	2	1644
.1-150E	C7	25056E	01	,1917CE	ű7	.24127E	01	,19210E	07	.21468=	01	28	3	- 2	1645
,19240E	07	.20025E	Ĵ1	.19260E	67	.1Y3y5E	01	.19280E	37	.179665	01	28	3	2	1645
.19300E	07	.18137E	01	.19340E	47	.199798	91	.19370E	07	.21-358	01	2 Fi	3	2	1647
19410E	ü7	.26276E	51	.19430E	97	27747E	4×1	.19460E	07	.27003E	01	28	3	2	164-
19470E	0.7	.27183F	51	19490E	17	-25660E	i•1	19500E	G)	-231456	61	28	3	2	1649
15510F	87	296301	11	.195406	.7	18067E	11	19560F	07	172574	01	26	3	2	16
19590F	67	.19114E	01	19620E	47	.21173E	.e1	19640E	07	23841E	61	26	3	2	1451
196606	07	.232116	01	196405		227425	11	197106	67	.24.365	<u> </u>	22	ž	2	165
107405	07	12V2115	04	107462	a7	394	1.4	407085	07	26-225	04	20	2		4467
117/ TUE	0.1	1202736	04	197500	. 7	120403E	24	.17/706	07	1679665	64	20	2	<i>е</i>	1092
1190206	07	1274/0E	01	.1905UE	07	.220342	11	.178705	07	4232705	U1	20	2	1	1074
+199105	07	-24945E	01	.1995UE	07	.220005	61	.199/02	07	124/545	¥1	20	3	~	1077
.1779UE	u /	.2343UE	11	.20900E	37	.202025	ы <u>т</u>	.200195	07	+23/17E	U1	20	3	~	1000
.20020E	θŢ	.22214E	61	,203505	97	.239146	J1	.2013CE	07	,22215	91	- SH	\$	Ş	1057
,20170E	67	.24713E	91	.201905	÷7	.24512E	21	.23210E	07	•22412E	31	2P	3	Ż	1656
,20270E	67	.25711E	01	20300E	ù7	.26011E	6-1	.20340E	07	.31610E	61	2۴	3	2	1650
.20400E	C 7	.28510E	01	.20450E	÷7	.260u9E	01	.20520E	67	.23.508E	F1	28	3	2	166.
20550E	07	.251085	61	.2059CE	C7	28007E	°1	.20610E	ρ7	.2F3072	01	28	5	2	1661
.20670E	07	.20006E	01	20720E	ij 7	.23205E	81	.20740E	07	.22 SD5E	01	28	3	-2	1662
20780E	97	.23704E	U1	.20839E	<u>07</u>	.23203E	81	.20840E	67	.23303ć	61	29	3	2	1662
20900E	67	23302E	01	.20930E	"7	.264 J1E	61	.2#970E	07	227075	31	28	3	2	1644
21000F	07	21550F	11	.21,130F	17	20399F	21	21/905	07	2799PF	01	28	3	2	1665
.211306	07	220975	L 1	211905	117	.2459AF	64	21220F	07	245656	64	28	3	2	1666
.21300F	07	.36493F	1 1 1	.21340E	.7	274425	e1	.213675	67	279925	85	28	3	2	1667
214006	07	302000	01	214586	£.7	2630.6	5.4	214265	67	TRIBCE	6 A	26	ž	5	1442
216200	07	37769C		246465	7	201980	01	214005	07	04.045	5 H 2 A	6 C 20 R	2	6	1007
1212200	07	123300CC	51 54	1412006		1201005	01	14 00 0C	07	121700E	UI.	67	2	2	12:2
.21/9UE	67 6.9	.213546	U1	.21//92	u/	632035	11	,2180UE	5/	12//025	61	25	5	2	1570
-21020E	U/	.X4192E	U1	.210605	97	.20401E	11	-21900E	07	.239MUE	51	56	3	2	1671
.2195UE	07	.244/5E	31	.2196UE	07	240046	91	152000E	07	-2-469F	61	28	3	č.	1672
,22020E	37	.22963E	ul	.223502	07	.21552E	(1	,22080E	07	,24742E	61	28	3	2	1673
.22150E	07	.21115E	ΰ1	-2550gE	ĉ7	.19802E	€1	,222905	07	.27871E	61	28	3	2	1674
.22320E	67	.26261E	01	.22370E	07	.23944E	U1	.2241GE	U 7	.23#30E	01	28	3	2	1675
.22490E	07	.29403E	01	.22500E	£7	.24900E	51	.22550E	67	.223588	01	28	3	2	1676
.22580E	97	.24332E	J1	.22650E	07	.27373E	01	,22730E	07	,25306E	61	28	3	2	1677
.2050E	97	.21030E	01	,22860E	i;7	.26779E	51	.22900E	07	.27462F	01	28	3	2	167E
.22930E	07	25337E	91	,22980E	37	,27794E	61	.23000E	07	.26'77E	61	28	3	2	1679
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.23030E LT	·	u 1	.23.102	7 را	.273218	ា1	.231006	67	.31=968	01	28	3	2	1060
317UE 51	.26950-	e 1	17319 DE	7 ئ	.274236		.23240E	07	229835	GI	28	3	2	1691
.23276E (7	234-1-	- 1	. E SwellE	C 7	.262975	- 1	.23410E	07	221015	J1	28	3	2	1662
254-50E 37	Alaca.	.1	EL STE	-7	.283772	01	.23570E	07	.270298	01	28	3	2	1683
44.540F 67	.27.5-4-		257-"E	1.7	-20chne	6.1	23780F	07	192035	01	28	3	2	1664
	.21/214	- 11	23	17	245.75		230206		.224535		28	3	2	1685
	. 2.5 4 321	1	2347 1	7	.206992		.239905	07	-280.78F		28	3	2	1686
E 17	274 501	. 1	.26		236465	. 1	.241 AGE	67	264325	61	28	3	- 2	1647
	22.1				107 FE		242405	6.7	23.745	C é	26	ž	2	1449
			1234 DE	7	301100	#-	244000	07	242000	6.5	20	ĭ	-	4445
-243096 07	.2294.22		1643295	· (•24730E	- U-A-	+2470UE	07	1649797	01	25	2	4	4401
. C4740E U/	.2	11	.24% ***C	· · ·	.207035	ΨI	.240105	U/ 6 7	100000	UI.		3	Ę	1090
A HOTUE UT	.2352 *=	1	24:2°C	- 4	*227535	71	.24/805	07	,18772E	UI.	25	3	2	1091
-24 SEVE 57	1/6/35		.29: 225		.2045/2	- 1	.2.7205		.270402	UI	20	3	4	1072
-2-7005 -7	.200361	- 11	16 77	. /	.2401SE	• I	.2580EE	- 97	235655	GI	20	3	2	1695
.21010E 37	.201000	- 1	·2212 2	27	.21093E	31	.29110E	07	.21744	61	28	3	2	1694
.c.100E 17	.2251?:	- 11	•252 Jr	7	.2205/-	11	.25240E	C7	,24561E	61	28	3	- 2	1695
.c.200E 67	.27450-	· • 🕯	.2554	21	.c4197E	01	.25400E	67	.23159E	\$1	28	3	2	1696
.2244ut 57	,22=35:	21	.254 .=	.1	.24541E	72	.255002	37	,25393E	61	2E	3	5	1697
. CUDUDE 07	.275491	1.	.20t1.tE	27	.2711cE	61	.25690E	37	.237536	61	28	3	2	1898
+e 1770E 31	.2 1956	11	• 25- ° JE	7	.254302	a: 1	.25910E	67	.227922	61	25	5	2	1697
12:970E 17		11	.20:	. 7	22340E	61	.20050E	67	.22A19E	0.5	28	3	è	1760
.260 30E 67	2019 16	- 1		. 7	. c7 c1,4=	· 1	.2618CE	67	.24463F	31	26	3	2	1751
. 40240E 17	.2:745=	41	.201	.7	122844		.263605	Ŀ7	20061E	61	26	3	2	1752
.cc 110m 07	19-34:		-264/ E	7	1990 55	61	.26510Ê	C7	216495	61	28	3	5	17:3
	.25135:	ц	264 3-	27	-2251-E	21	.26660E	07	.217975	0.1	28	3	2	1764
	2.4716		25/200	7	1977 AF	- E	.26780E	07	231435		28	3	2	17:5
	24:24		26-195	. 7	222 4-5		26937E	67	101685	01	28	3	5	706
270.05 51	25755	. 1	27 5	. 7	142545	1.5	.272415	67	212151	2.	28	ž	5	1707
-200002 07	1364		27	7	127.45		271010	07		<u> </u>	20	ž	5	4716
.72566 07				÷ 7	253652	1. C	273405	6.2	237746	<u></u>	26	ž	2	4700
+L/L/UE ·/		-	37	.,	361115	69 <u>4</u>	275205	67	911005	64	25	ž	5	1707
- C/400E U/	1271-12		274032		127131C		12/0205	07	1243775	10 II. 	20	3	-	1710
. C / DOUE	.200715	44	.2/61.5	1	121737E	UI.	- 2/CYUE	01	.6/1205	ΨI	60	÷.	4	1/31
-27720E C7	.255-70	41	.2774 c		.23991E		.2/3105	ω <i>Σ</i>	,20409E	51		5	Ş	1712
.27059E 17	.244915	01	1214 12	1	2342.2	61	.27950E	67	.204015	61	55	\$	Z	1713
.2: 9 JUE C/	.221742	31	231 532	94.	234705	41	.2018JE	37	+27267F	51	20	3	S	1714
***170E \/	,27556:	UI	•201-9E	1	.2/6492	-91 	.20220E	07	251/76	2 ک	25	3	Z	1/15
.∠cd098 97	.2134×L	91	.263252	<u> 27</u>	199245	£.	.2044JE	67	,199416	61	26	3	2	1716
*510F 61	.23.76E	JU 1	.265 49E	.; T	.23711E	21	.26530E	ŵ7	227655	01	26	3	2	1717
'JUE U/	.2700Be	U1	,2675JÉ	97	.26673E	1	.20830E	C7	.2 34088	61	28	3	2	171ð
.co040E 07	.216716	51	•2891-E	27	.225168	61	.26960E	67	,2366(E	51	26	3	2	1719
./ **JJE @7	.22794E	ΰĩ	,25030E	υ7	.225u3E	1	.29110E	07	,229518	E1	28	3	2	1720
.29100E 07	.25005E	01	.292n3E	:_7	.220548	i, 1	.29300E	07	.21326F	21	- 28	3	2	:721
.29370E 51	.22781E	01	.294 OE	υ7	.221618	21	.2947JE	07	,185258	61	28	3	2	1722
.29540E 67	.200896	01	296.95	37	.210:3E	61	.29620E	07	.212519	61	26	3	2	1723
	.264186	01	.29748E	37	.26911E	61	-29800E	â7	.25341+	01	26	3	2	1724
. cybolE 01	217016	61	29910E	7	206735	61	.29990E	37	-22761F	01	28	3	2	1725
. 31. JOOF 07	253096	61	.36 H #E	: 7	23262E	21	.3009CE	87	.221625	<u>G</u> t	28	3	2	1726
	222476	0.5	3047.JF	37	23033E	31	36240E	07	212625	6.1	28	3	5	1707
.X. 3265 DT	4.442746	115	.363/06	a7	1 GORAE	n 1	30400E	07	210512	04	26	3	2	1728
SCORDE UN	90,000	0.4	30- 05	.7	216746	21 1. 1	TIRANS	67	21254	6.4	20	ž	5	7-0
10097UE U/	21111	13 -	100000C	5	104105	91 4	10000UE	07	40577872 405720	51 64	20	2	6	. 127
1007UUE 07	******	0.1	- JUC JUE	07	1204YE	6 4	4003192	07	**************************************	84 1	20	3	2	1/30
10/74UE U/		2.	- 30790E		.100175	101	.JIIUE	U/	.CUPCIF	01	20	2	Z	1/31
SIGUUE U7	-125105	11	JIZSUE	01	.17/DUE	11	*37240E	27	1009/E	61	28	3	2	1/32
.51450E 97	.21342F	Jī	+314/UE	υ ₹ _	.22155E	ei -	.31700E	<i>47</i>	.22021E	91	26	3	2	1733
.31500E 0/	.10483E	01	.JienGE	67	.18244E	e1	,31690E	57	,199306	31	26	3	2	1734
.51770E 07	.172926	Ü1	.311 GE	97	.17577E	C 1	.31880E	67	.21:39E	01	28	3	2	1735
.3191DE 07	.22925c	U1	32:00E	ú7	,228úuE	61	.32020E	67	.227745	01	28	3	2	1736
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0 .11920E .1.9500E .1.9500E .1.9500E .2.9500E .2.9500E .2.9500E .2.9500E .2.9500E	• 5777777777777777777777777777777777777	-1.172 .C:C:GE .14913t .2039CL .4213GE .5963CE .611CGE .76340E .F3411E		.130512 .147965 .100064 .17005 .29005 .23905 .25906 .259005 .259005	0.07777777777	5 5 5 5 5 5 5 5 5 5 5 5 5 5	.14000 .15000 .15005 .13005 .25005 .24000 .240006 .26000 .260006	10707 07707 07707 0707	.91260E .32020E .41470E .49940E .52910E .73520E .82520E .87534E	57 C1000000000000000000000000000000000000	265 288 288 288 288 288 288 288 288 288 28	3333333333333	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1629 1631 1632 1632 1633 1635 1834 1635 1835 1635 1635 1635
9 .11920E .1.550E .1.550E .1.550E .1.550E .2.500E .2.500E .2070UE .2070UE	• 5777777777777777777777777777777777777	-1.172 .CCCCCE .14013t .2009CL .3770LE .4213CE .5940CE .61100t .6340LE .6341LE .93/2vE		.135512 .14796 .16796 .1756 .19008 .2908 .219505 .25246 .259605 .259605 .259605 .259605 .259605 .259605	0077777777777777	.15677E-01 .15677E-01 .15655E JC .36380E GV .43450E US .43450E US .45720E US .59159E KK .6627JE SS .78864E JS .67815E JS .97635E SS	.14000£ .15000£ .15000£ .1500£ .1500£ .2500£ .24009£ .24009£ .2602£ .26220£ .32106£	107777777 07777777777777777777777777777	912605 326705 49705 527155 527155 521255 8735865 8735865 875375	5 C100CC00000000000000000000000000000000	265888888888888888888888888888888888888	3333333333333333	• • • • • • • • • • • • •	1829 1831 1832 1833 1835 1835 1835 1835 1835 1835 1836 1837 1839
9 .11920E 	50777777777777777777777777777777777	-1.172 .C:006 .2:036 .2:036 .37764 .42136 .59606 .61100 .763506 .63106 .63416 .53416 .53416 .53416 .53416		.135512 .14/96 .160026 .175006 .219506 .252406 .254066 .2540166 .3800.02	00777777777777777	5 15677E-01 15655E 00 35650E 00 43650E 00 45720E 00 59159E KK 66270E 00 78864E 00 67810E 00 97030E 20 100037E 11	.14000 .15000 .15000 .195000 .295000 .226000 .24009 .26000 .26000 .26000 .26000 .25000 .301000 .325000	10777777777777777	912000 32000 419740 52120 52120 82120 82120 87530 87530 87530 87530 87530 87530 87530 87530 87530 87530 87590 87590 800 900 900 900 900 900 900 900 900 9		265888888888888888888888888888888888888	333333333333333		1629 1830 1631 1632 1834 1835 1836 1836 1836 1836 1837 1836 1839 1841
0 .11920E .14500E .15500E .24000E .24000E .25000E .25000E .25000E .25000E .25000E .31100E .3120E	5000000000000000000000000000000000	-1.172 .C:006 .140135 .200902 .377062 .596002 .611002 .611002 .634112 .534112 .957202 .106455	• 2 L C C C C C C C C C C C C C C C C C C	.130502 .14/902 .17002 .190002 .210002 .232402 .254002 .254002 .254002 .30002 .24002 .30002		6 15677E-01 15655E 06 36390E 00 43450E 00 45720E 00 59159E 00 59159E 00 5920E 00 5920E 00 5920E 00 5920E 00 10207E 01 11263E 01	.14000 .15000 .15000 .13500 .13500 .25000 .25000 .26000 .26000 .35100 .35500 .35000	1077777777777777777	912605 320005 4147055 5214055 521205 8753605 875346 969376 112015		265888888888888888888888888888888888888	333333333333333	* ~ ~ ~ * * * * ~ ~ ~ * *	1629 1830 1832 1832 1833 1835 1835 1835 1835 1835 1835 1836 1841 1642
0 .11920E .1.500E .1.500E .1.500E .2.000E .2.000E .20700E .20700E .3100E .33250E .5500E	5000000000000000000000000000000000	-1.172 .C:C:GE .140134 .2035CL .3776LE .4213GE .64213GE .64213GE .64213GE .65943GE .65943LE .65943LE .9372UE .10045LE .10045LE .10045E	• 2 L 2 C C C C C C C C C C C C C C C C C	.130512 .14/965 .10006 .17575 .19000 .219005 .252405 .260005 .300015 .32005 .32005 .340005	00077777777777777777777777777777777777	5 5 5 5 5 5 5 5 5 5 5 5 5 5	.14000£ .15060£ .15066£ .25009£ .22009£ .24009£ .24009£ .24009£ .25220£ .32100£ .32500£ .32500£	10777777777777777	9120000 4920000 49201000 520000 520000 52000 52000 8735800 873580 873758 9049375 107502		22222222222222222222222222222222222222	33333333333333	****	16290 1831 1632 1633 1633 1633 1633 1635 1635 1643 1641 1642
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9 .11920E 	5000000000000000000000000000000000	-1.172 .CCCCCE .14013t .2007CLE .4213CE .5940CE .61100E .63411E .9042CE .1004CE .10047E .12250	• 2000000000000000000000000000000000000	.135512 .14/96 .160026 .175005 .219505 .252406 .254066 .254066 .320.06 .320.06 .320.06 .320.06 .320.06		5 5 5 5 5 5 5 5 5 5 5 5 5 5	.14000 .15000 .15000 .195000 .22600 .24009 .26000 .26000 .301000 .325000 .325000 .365910 .40000	107777777777777777777777777777777777777	912000 320000 419000 521300 521300 87000 80100 80100 80100 8000 8000 800	575100000000000000000000000000000000000	22222222222222222222222222222222222222	333333333333333333	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	16290 1631 1632 1633 1635 1635 1635 1665 1665 1665 1665
0 .11920E .14500E .15500E .27000E .27000E .20700E .2500E .332502E .57500E .90500E		-1.172 .C.C.C.G.E. .1401354 .2009CL .3776LE .5960CL .611350E .61350E .62350E .63411E .58411E .1017E .1225E .12351E		.130512 .14/962 .170012 .190012 .29005 .252405 .254015 .269105 .380.12 .380.12 .340.05 .340.05 .340.05 .340.05 .340.05 .3502000	0	6 .15677E-01 .15655E 06 .45655E 05 .43650E 05 .45720E 05 .45720E 05 .45720E 05 .45720E 05 .45720E 05 .45720E 05 .45720E 05 .1005E 01 .1205E 01 .12217E 61 .12436E 01	.14000 .15000 .15000 .19500 .24009 .24009 .26000 .20220 .325000 .3250000 .3250000 .3250000 .325000000000000000000000000000000000000	107777777777777777777777777777777777777	912605 320005 4147055 521305 521305 875376 875376 875376 117595 117595 123245 124105		22222222222222222222222222222222222222	3333333333333333333	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	168312334 16832334 16833335 1683335 168335 168335 16843 16643 166443 188 188 188
0 .11920E .12500E .12500E .23500E .23500E .23500E .20700E .33250E .35500E .35500E .35500E .40500E .45050E	 5000000000000000000000000000000000000	-1.172 .C:C:C:E: .14:0134 .2:035CE .3776EE .4213CE .64213CE .62312CE .623411E .93/2CE .1017E .1205EE .1235EE .1235EE .1235E		.139512 .14/965 .10006 .175705 .19008 .232405 .24008 .24008 .24008 .32008 .32008 .32008 .32008 .32008 .32008 .32008 .32008		.15677E-01 .15677E-01 .15455E 06 .36380E 09 .43450E 02 .45720E 01 .59159E kk .66270E 03 .78864E 03 .78864E 03 .78864E 03 .78864E 03 .70807E 01 .1263E 01 .12217E 01 .12436E 01 .12846E 01	.14000£ .150605 .15066£ .25009£ .22009£ .24009£ .24009£ .24009£ .25000£ .35100£ .35500£ .46008£ .46008£ .46008£	10777777777777777777777777	912020000000000000000000000000000000000		22222222222222222222222222222222222222	3333333333333333333333	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	11111111111111111111111111111111111111
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0 11920E 14500E 1500E 17000E 17000E 17000E 1000E 1000E 1000E 1000E 1000E 1000E 1000E 1000E	• 5000000000000000000000000000000000000	-1.172 .C.C.C.G.E. .140135C .2007CLE .3776LE .596000E .611300E .63411E .1025E .1025E .1235LE .1235LE .99525E .695327E .30527E		.130502 .14/962 .170002 .190002 .219005 .232402 .254002 .254002 .254002 .320002 .320002 .320002 .320002 .320002 .320002 .320002 .50000000000	000000000000000000000000000000000000000	5 5 5 5 5 5 5 5 5 5 5 5 5 5	.14000 .15000 .15000 .15000 .25000 .24009 .24009 .24009 .25000 .325000 .325000 .325000 .36550 .40000 .40000 .90000 .40000 .20000 .20000	1077777777777777777788	912070000 9120700000 41977400000 52.3500000000 52.3500000000 52.350000000 917520000 11752000 117524000 117524000 1123240000 122400000 122400000 122400000 122400000 122400000 122400000 122400000 122400000 122400000 122400000 122400000 122400000 122400000 122400000 122400000 122400000 1224000000 1224000000 1224000000 1224000000 1224000000 1224000000 12240000000 1224000000 12240000000 12240000000 1224000000 12240000000 12240000000 12240000000 12240000000 12240000000000 122400000000 122400000000 122400000000 1224000000000 122400000000 1224000000000 1224000000000 1224000000000 1224000000000 1224000000000 12240000000000 12240000000000 122400000000000 1224000000000000 122400000000000000000000000000000000000		22222222222222222222222222222222222222	3333333333333333333333333333	• • • • • • • • • • • • • • • • • • • •	11111111111111111111111111111111111111
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1.00000-24.028704	0	2,53000-	2	2,91010+ 9	3+30/43-	2	2,72240+ (0 20	3102	2002
4.40202- 2 2.100404		>,96561-	2	1.89510+ 0	/.94022-	2	1.04209+	28	3102	2003
1. 32084 - 1 1. 423834	• U	1.40666-	1	1.23420+ 0	1.97226-	1	1,05970+ (25	3102	2094
2.49190- 1 9.27230-	• 1	3,31683-	1	8,03710- 1	4.41470-	1	6.95640- :	1 28	3102	2005
5.07596- 1 6.03840-	• 1	7.82091-	1	5,23400- 1	1.04096+	9	4,53670- :	1 28	3162	2906
1.30952+ 0 3.93240+	- 1	1.64413+	U	3,40850- 1	2.45454+	0	2.95450- 3	1 28	3102	2007
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7./0338+ 0 1.66770-	• 1	1.02532+	1	1.44550- 1	1.36470+	1	1.25309+ 2	28	3102	2009
1.01642+ 1 1.08600-	- 1	2.41765+	1	9.41370- 2	3.21789+	1	8.15960- 2	2 28	3102	2010
4.28302+ 1 7.07260	- 2	5.70070+	1	6.13030= 2	7.58763+	1	5.31365-	28	3102	2011
1.00991+ 2 4.60570-	. 5	1.221994	2	4.18690= 2	1.62648+	5	3.62910- 2	2 28	3192	2012
2 164844 2 7 1455U	5		5	2 726 44- 2	3 2351 44	5	2 36300- 1	2 28	34.82	204 2
E 104604 2 2 042004	5	6 1 1664A	2	1 86170- 2	8 220074	2	1 61776- 1	20	3102	2013
0 4 4739 2 1 46640		1 20104+	3	1.27610- 2	1 201 34+	2	1.25840- 3	20	3102	2014
4 00166, 7 4 06000-		4 20470	ž	1 27140- 2	1 204944	z	1 24480- 4	5 210 5 7 2	24 02	2044
1.271934 3 1.200204		14691/77	2	1.20140- 2	1+27100*	2	102500 0		2102	2010
1.29201+ 3 1.225/0-	2	1.29214+	3	1.24100- 2	1.29230+	3	1.22990- 4	20	3192	2011
1.29245+ 3 1.27840-	2	1.29266+	3	1.25660- 2	1.29342+	5	1.25450- 2	28	3102	2018
1.76224+ 3 1.10010-	2	2,25226+	3	\$.65000- 3	2.25378+	3	9.53400- 3	5 28	3102	2019
2.25480+ 3 9.16200-	3	2.25551+	3	8.25009- 3	2.25598+	3	6.73000- 3	5 28	3102	2020
2.25631+ 3 5.90010-	- 4	2.25653+	3-	7.15010- 3	2.25668+	3	6.90016- 3	5 28	3192	2021
2.25685+ 3 1.18000-	2	2.25701+	3-	1.16000+ 2	2.25715+	3	1,10009- 2	28	3102	2022
2.25732+ 3 5.39990-	5	2.25747+	3-	6.40060= 3	2.25769+	3	5.79950- 4	28	3102	2023
2.25802+ 3 6.47000=	5	2.25449+	3	8.25000- 3	2.25919+	3	9.15280- 3	5 28	3102	2024
2.20022+ 3 9.52600=	3	2.27907+	3	9.64680- 3	2.34554+	3	9.50770+ 3	5 26	3102	2025
3.434104 3 7.67026-	3	3.77751+	3	7.15490+ 3	4.01354+	3	6.84130- 3	28	3102	2026
4.20041+ 3 6.67600=	3	4.57079+	3	6.75590= 3	5.02787+	3	6.85820- 3	28	5102	2027
5 527824 3 6 40800-	ž	6 529624	3	5 99600- 4	5 528004	ž	6 46200- 1	28	2100	2026
5 62074 4 7 5 41000-	7	5 50057 ·	7	4 95-000- 7	5 60070.	3.	6 55010- 7	20	7400	2020
3.72931+ 3 7.53000-	3	5.52433+	3	++D2000- 3	2+229/0+	2"	0.20U104 2	20	3102	2029
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5.23101+ 3 6.46700+	- 5	7.25140+	3	2.99300+ 3	2.23218+	5	0,40000- 3	56	3102	2032
5.54488+ 3 6.46030-	3	5.86555+	5	0.21690- 3	5.88784+	3	>•0%>0n= 3	28	3102	2033
6.68853+ 3 5.5600u-	3	6.86900+	3	6.49700- 3	6.68932+	3	4.43000+ 3	28	3102	2034
6.28954+ 3 4.99000-	3	6.86979+	3	1,46500- 2	6.8985+	3	6.65000- 3	28	3102	2035
6.59001+ 3 1.0160C=	2	6.89015+	3	6,69000- 3	6.89031+	3	5.34010- 3	26	3162	2036
6.49046+ 3 5.u1000-	3	6,89068+	3	4.67 ₩J9m 3	6.59106+	3	6.59000- 3	28	3102	2037
6,39147+ 3 5,56000-	3	6.89216+	3	5,68460- 3	6.90005+	3	5,65060- 3	28	3102	2038
8.09744+ 3 5.21390-	5	8,41520+	3	5.12390- 3	8.61219+	3	5.07270- 3	28	3102	2039

8.90718+	3 5.003040	- 3	9.27816+	3	2.800.0-	2	1.00000*	4	2.80000-	2	28	3102	2040
1.90000+	4 2 85000	2	1.51000+	Ā	1.50000-	2	2.500004	Â	1.30000-	2	26	3102	2641
2 -41324	A 1 11110-	5	3 607604	4	1 160000	5	2 457484	7	1 100000-	5	20	14 02	2042
21241324	- 1,11110-		2.00,000	7	1.10070-	~	2.05700+	7	1.10720-	ŝ	20	7402	2072
2.030424	4 3,11300-	4	2.02072+	4	1.11300-	ź	2.0392/+	•	1.10900-	2	20	3102	2043
2.05950+	4 1,23990-	2	2.60966+	4	6,33000-	3	2.65977+	4	1.17200-	2	28	3102	2044
2.05984+	4-3.65000-	3	2.00989+	4	6.66000-	3	2.65997+	4	5.03050-	2	28	3102	2045
2.66005+	4 1.35306-	1	2.66010+	4	6.59990-	2	2.66016+	4	3.17000-	3	26	3102	2646
2.66023+	4 1 16900-	2	2.64.344	4	6.50060-	3	2.66050+	à	1.24620-	2	28	31 02	2047
2 440774		5	2 6.10-4	2	1 11460-	ž	2 441604	7	1 11300-	5	26	3402	2040
2,000/34	4 1,10710-	5	2.001000	2	1.11400-	ŝ	2.00190+	7	1411000-	ŝ	20	3402	2040
5.00201+	4 1,15700-	2	2.04/30+	-	1,100/0-	e	2.01302+	4	1,100,00-	2	28	3102	2049
2.71628+	4 1,11380-	2	2,76536+	4	1.14010-	2	2,79877+	4	1,21510-	2	28	3102	2050
2.02151+	4 1.37250-	2	2.83699+	4	1,58400-	2	2,84753+	4	1.72458-	2	28	3102	2051
2.85471+	4 1.71666+	2	2.87390+	4	1.66730-	2	2.68529+	4	5.30150-	3	28	3102	2052
2.903014	4 6.59646	- 3	2.918494		8.32650+	ā.	2. +41234	à	9.67148-	3	28	3102	2653
2 074444	4 1 64956-	5	2 000 404	Â	1 05-60-	2	1.00030A		1.06260-	2	28	3102	2034
2 4 0 0 0 0	4 11000000-	5	2.790004	2	1.02200-	2	3 00007.	7	0 46040-	5	20	74 00	2016
3.009/2+	4 1. 15//04	6	2.00A01+	•	A*10000-	э	3.00997*	٩.	A*T0AT0+	9	20	9105	2052
3.01913+	4 1.50700-	2	3.01019+	4	9,18600-	3	3.61028+	4	1,05800+	2	28	3102	2625
3.01061+	4 1.02270-	2	5.01090+	4	1.66120-	ĉ	3.61132+	4	1.06250-	2	28	3102	2057
3.08927+	4 1.07650-	2	3.09557+	4	1.07680-	2	3.16722+	4	1.07800-	2	28	3102	2658
3.20174+	4 1. 37336-	2	3.21600+	4	1.07070-	2	3.22175+	4	1.07906-	2	28	3102	2059
3.22757+	4 1.07950-	5	5.23154+	4	1.05013-	2	3.23424+	4	1.63070-	2	28	3102	2860
7 31400.	4 1 0/750-		2 227774	Â.	1 66746-	5	3 379494		1.00070-	5	28	3102	2044
3.23500+	< 1.00220-	÷.	3,23/334	7	1100/04-	<u>e</u>	21220104		1107270-	£	20	0105	2001
3.23976+	4 1.03276-	4	3,23910+	•	1,01620-	Ξ.	3.23943+	4	1.31206-	S.	28	3102	2002
3,23761+	4 1.36306*	2	3.23973+	4	-1.57010-	3	3,23983+	4	1.53660-	2	28	3102	2063
3.23992+	4 3.03000-	2	3.24000+	4	2.11049-	2	3,24012+	4	1,98000-	5	28	3102	2064
3.24.126+	4 1.45980+	3	3.24039+	4	1.56100-	2	3.24057+	4	1.3660ũ-	2	28	3102	2065
3.24084+	4 1.03730-	2	3.24124+	4	1.09970-	2	3.24182+	4	1.09550-	2	28	3162	2066
3. 349674	4 1.08910-	2	1.203454	Å	1.06360-	5	3.24576+	4	1.66100-	5	28	3102	2667
7 740444	4 4 00110-	-	2 246344		4 08470-	5	7 252424		4 06406-	5	20	74 30	2040
31240404	4 1.001/04	2	34249214	7	1.001/0-	ŝ	3.222.24	7	1.00100-	<u> </u>	20	3102	2005
3.23322+	4 1,02404	4	3,2/101+	1	1.00400-	2	3.28/7.0+	1	1.00000-	5	20	3102	2009
3,28801+	4 1,03020-	2	3.25804+		1,08060-	2	3.28908+	4	1.68480-	2	28	3102	2070
3,20937+	4 1.00740-	2	3,22957+	4	1,06950-	2	3.28971+	4	1.09460-	2	28	3102	2071
3.28980+	4 1.05990-	2	3.20997+	4	1,92470-	2	3.29013+	4	1,25620-	2	28	3102	2072
3.29020+	4 1.05936-	2	3.29029+	4	1.08570-	2	3.29043+	4	1.06950-	2	28	3102	2073
3.29063+	4 1.08309-	2	3.29992+	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+	ġ.	1.07220+	5	28	3162	2075
3. 32855+	4 1.06516-	2	3.32901+	4	1.06460-	5	3.32033+	À	1.06628-	2	28	3102	2076
3 (30544	A 1 04446-	5	3 320404	à	1.07620-	5	3 329704		1.02370-	5	28	3102	2077
7 73007.	4 1103400-	2	2 27014	-	41100-	5	7 170744	7	4 02070-	5	20	24 00	2070
3+3299/*	4 9,13250-	2	3.33014	7	0.41100-	5	3.339214	7	1,027/0-	2	20	3102	2070
3.33431+	4 1,002/0-	4	3.331.40+	1	1.007/0-	2	3.3300/+	1	1,00090-	2	2D	3102	2019
3.33099+	4 1,06350-	5	3.33145+	•	1,06350-	2	3.34233+	4	1.06040-	2	28	3102	2060
3,35734+	4 1,06000-	5	3,30819+	4	1.96259-	5	3.39079+	4	1.06550-	2	28	3102	2081
3.41330+	4 1,6710-	2	3,41544+	4	1,06720-	2	3.41690+	4	1,06800-	2	28	3102	2082
3,41789+	4 1.06930-	S	3.41856+	4	1.06910-	2	3.41902+	4	1.07510-	2	28	3102	2663
3.41933+	4 1.05260-	2	3.41955+	4	1.18780-	2	3.41969+	4	1.28800-	2	28	3102	2084
3.41979+	4 8.25000-	ā	3.41965+	4.	1.15400+	2	3.41990+	4.	3.13300-	2	28	3102	2085
4.4:997.	A 1.14310-	1	3.420054	Å.,	2.37000-	2	3.420094	Å.	7.97340-	7	26	3102	2086
3.420144	4 7.67000-	Ĵ.	3 420214	à.	7 67000-	ĩ	3.420314		1.23400-	ž	28	31 02	2087
7 400454	4 4 47050-	3	3 40047		1 04700-	2	3 430004	7	1 07460-	2	30	1407	2060
34720737	4 1,1/020*	č	344202/4	Τ.	1.04/20-	2	31720707	7	1.0/4004	2	20	9102	2000
3.42144+	4 1.000/0-	4	3.42211+	1	1,00930-	2	3.42010+	1	1,90520-	2	20	3102	2087
3.42456+	4 1,06/50-	Z	3 42670+	4	1,06750+	2	5-47277+	•	1.06720-	2	28	3102	2020
3,57320+	4 1.06450-	2	3.50592+	4	1.06420-	2	3,59962+	4	1.06380-	2	28	3102	2091
3.0294+	4 1.36380-	2	3,60519+	4	1,06390-	2	3.60673+	4	1.06480-	2	28	3102	2092
3.60777+	4 1.00786-	2	3.60846+	4	1,06590-	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 1,90200+	2	3.60985+	4	1.80200-	2	3.60996+	4	6.74740-	2	28	3192	2095
3.010074	4 2.45310-	2	3.610154	á.	1.88640-	2	3.61022-		1.94000-	2	28	3102	2004
3.610334	4 1.45200-	5	5.61048+		0.40AG0-	ž	3.61070-		1.00740-	2	20	3100	2070
3.61107-	4 1.02730-	5	3.61459-		1 06640-	2	3.610024	4	1.06740-	5	26	3400	2000
2 14202+	- 1100/00+	4	0+01155+	7	4 04734	5	2 64 7 AL	7		<u>د</u>	20	7400	CU70
3.0132/*	- 1+304/8-	6	J.91401+	-	T*A0310- 3	٢.	~,01/UO+		▼●0とつせん●)	C	60	3102	2099

-A-35-

the set of the second

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1 . 3070.		~					1 10.1.			~		74.00	24.00
3.02030+	4 1,05320-	_ 2	3.049/0+	-	1.00220-	2	3./21/4+	-	1.02 77 0-	2	26	3102	2100
3.637244	4 1.15276-	2	3.93935.	4	1.04570+	2	3.93956+	- 4	1.05751-	2	28	3102	2101
1 07030.		-				2	3 03000			Ξ.		7400	0.00
3**3310+	4 9,/3406=	ు	3.93930+	-	1,12230-	2	3,93985+	- 4	4,70030+	5	28	3102	2102
3.030014	4-2.06030-	. 3	3 6AN#2.	4	7.96450-	٦,	3.949144		1.33400-	2	28	3102	2103
01101214			0,740024		/ /////////////////////////////////////		01140144	-	1.0.04000	C	20	0102	6100
3.94020+	4 1.10256*	2	3.94030+	- 4	9.753.0+	- 3	3.94044+	4	1.05490-	2	28	3192	21^4
7 04 3654	4 4 3 3 7 0		4 03 40	٠	A CE260-	Ā	4 00007.		0 4 - 0 4 5	Ξ.	26	74.00	345
3,742074	4 11126/04		4.03542+	4	1.07070-	2	••UY283+	. 4	A * O C A 4 9 -	3	20	21.05	6105
4.12680+	4 9.64000e	- 3	4.15437+	- 4	9.66570-	- 3	4.22112+	- 4	9.65600-	3	28	3102	2106
4 540.44										Ξ.		7400	0403
4,24080+	4 9.074404	ು	4,20//4+	-4	9.0/120-	- 3	4.28000+	- 4	9./41/64	<u> </u>	59	3102	2107
4 289364	A 0 07650-	- 2	4 296304	۵	1 86750-	2	4.200344		+ 24740-	2	26	3102	2169
41233034			74273504		7100120-	4	41277004	-	The second second	2	20	OT OF	6101
4.03212+	4 1.60600-	- 2	4.30399+	- 4	2.06230-	-2	4.30527+	- 4	2.40936-	2	28	3102	2109
A 346444	A 0 79634-	2	4 70-000		0 22400-		4 20004		-4 40200-		20	74 0 2	21.1
41000144	4 2.00000	e	• • • • •••••••••	~	7.224UU-	3	4.30460+	- *		3	20	2165	411 0
4.31073+	4-4.34000-	3	4.31388+	- 4	3.14900-	- 3	4.31664+	- 4	6.60630-	3	28	3102	2111
4 220204	A P 43443-	- 1	A 70+45.	2	0 48-00-	÷	A 27540.	- Ā	0 47440	-	20	7402	2112
* *0CU/U*	4 6 4 4 4 4 9 4	3	4.02007+		A.TOOS6-	3		-	9,4/11 0 4	<u>ې</u>	2 C	2102	2112
4.34926+	4 9.56821-	<u>3</u>	4.36714+	4	9.59810-	- 3	4.39468+	- 4	9.60330-	3	28	3102	2113
			105.10	~		-			0 6 (0 0 0	-		1400	
4.43203+	4 8,59/20-	ు	4.49549+	- 11	9,70490-	- 5	4.00023+	- 4	Y.20020-	5	20	3102	2114
4.739034	4 9.54710-	3	4.739554	4	G.51700-	2	4.710704		0.62900-	3	26	3102	2115
	4 71347500-				7.71109-	<u> </u>			102.00-	•		0102	CLIF
4.73979+	4 1.33604=	- 2	4.73985+	- 4	7.63400-	- 3	4.73999+	- 4	1.92000-	3	28	3102	2116
4 710074	A 6 45630-	4	4 740C4+	L	2 51400-	2	A 740144		3 15000-	ž.	22	3463	2117
	4 0100000-				2121400-	~	4./40144	-	2.00000	9	20	20105	2211
4.74021+	4 1.3350ú-	- 2	4.74030+	- 4	7.45100-	- 3	4.74045+	- 4	9.45500-	3	28	3102	2118
A 741474	4 0 54460-	2	4 7/450.		0 62510-	2	4 77673.		0 52700-	÷.	~ A	3400	3440
41,41424	4 9121400-	0	4,/44204		A155210-	\$	4110164	•	A*3<966-	•	20	2105	2419
4.73232+	4 9.5279L-	3	4.70477+	-4	9.53930-	3	4.78644+	4	9.55030-	3	28	3102	2120
4 10300		- ,			A E0//A	1	4 70000	-		ž		74.00	
4,/5/50+	4 9.00700-	ు	4.76532+	4	¥.77688-	-5	***/8086+	-4	¥+84800=	3	20	3102	2121
4.78024+	4 1.14400-	2	4.78048+	4	1.18160-	2	4.780454		1.40200-	2	28	3102	2122
	- 1.10-00-	-			1.10100-	-	41/07034		11402000	ε	20	0102	2122
4,/5984+	4 1.53206-	ž	4.78989+	- 4	2.78000-	ĉ	4,79000+	4	1,51000-	2	28	3102	2123
4.790114	4 2.61000	2	4.700164	4	1.366400-	2	4.700354	4	1.32900-	2	26	3102	2124
	4 5101003-				4100000	-		7	1002700-	<u> </u>		UL DE	
4.79052+	4 1,14500-	Z	4 79076+	4	1.09200-	2	4,79112+	4	9,85400-	3	28	3102	2125
6 10146A	4 0 54600-	7	A 70343A	4	0 35500-	z	4.703544		0 54000-	7	28	3102	2126
		~	7172767		7,JJJU0-	9	44/70204	-	******	3	20	5102	2120
4,79523+	4 9.53890-	- 5	4.79768+	4	9.52560-	3	4.60657+	4	9.51600-	3	28	3102	2127
A 194344	4 0 54310-	2	4 05047+	A	0 43-10-	7	A 050644		0 67770.	-	20	2102	24.20
-101-04-	4 9.01010-	2	44723474	•	A1-2010-	0		-	7, 77 330-	9	20	STUC	e 1 e 0
4,95975+	4 8.71200-	ు	4.95983+	- 4	7.51400-	5	4.95997+	4	1.34670-	2	28	3102	2129
4.450114	4 1 10050-	ر		4	7 64640-	1	4.060254	4	8 82800-	7	28	310%	21 30
41200114	A 7172278-	~	44790174		/_04000-	9	41900234	-	0,02000	3	20	STOF	2100
4.76936+	4 9.61160-	- 5	4.96053+	4	9,44450+	3	4.96115+	4	9.48070-	3	28	3102	2131
A 061604	4 6 47740-	2	5 4 AU.64 .		0 31470-	7	E 440674		0 07700-	7	20	24 0 2	2472
44401044	4 7 4// 404	3	24143014	7	A*21020-	0	241420/4		7,33300-	3	20	2105	2705
5.14977+	4 8.53900-	- 3	5.14996+	4	2.11290-	2	5.15015+	4	8.73400-	3	28	3102	2133
6 150274	A 9 43801 -	4	- 15022.		6 60.00-	7	6 150404	A	6 10360-	ž	26	3402	2134
2.120524	4 0.520004		2.120224		0.77200-	3	2.120444	-	** 20320-	3	20	0105	2134
5.15105+	4 9 43576-	- 3	5,15155+	4	9.43670-	3	5,30367+	4	9.41280-	3	28	3102	2135
- 144674	4 0 70740-	7	- 7-607.	A	0 174-0-	7	E 747644		0 77540	2	20	2403	24 74
2.344034	4 94397004	9	2102224		7.0/730-	5	21202014	-	1.00010-	3	20	3102	2130
5.37241+	4 9.03520-	- 3	5.37483+	-4	8.77948-	3	5.37761+	4	8.59180-	3	28	3102	2137
C 10000.			20040		A (A	-	E 207EO.		0 70750	Ξ.	20	74.00	3470
3*20300+	4 9,321/0-	3	2.302404		7*01050-	e	2.30/29-	•	9 t / 2330 -	ა	20	2102	5196
5. 39116+	4 9.54150-	3	5.47792+	4	9.38370=	3	5.47904+	4	9.3y20r+	3	28	3:02	2139
1 17074.		-	49055				E 47070.	-		ž	20	74.00	0444
2.4/934+	4 9,36/20-	ు	2,4/977+	4	A*00536-	5	7:4/9/0+	•	9.4900c-	5	28	3102	2140
5.47979+	4 9.57760+	- 3	⇒.47985 +	4	1.16830-	2	5.479904	4	1.37800-	2	28	3102	2141
						-	E 10040		4 00000	2	20	2400	
2.4/997+	4 0.460/0-	3	2.46004+	4 4	2.03200-	2	2.40014+	4	1*50206*	2	28	2105	2142
5.48001A	A 0.8386:-	7	5.440304	¢	0.36230-	7	5.48046+		0.60000-	7	28	3102	2147
21406514	- 7102000-	5	21406904			5		-	7107000	0	20	OTOC	2273
5,43066+	4 9.30560-	3	5,46142+	4	9.38640-	3	5,48306+	4	9,38360-	3	28	3102	2144
5 504444	A 0 37010-	÷.	6 62376.	٨	0 33-40-	ĩ	5 62042+	À	0. 12450-	ĩ	26	3100	2144
2420T04+	- 210/2T0-		2.02C/0+		7.00070-	J	24267464	-	70364304	J	20	OTUS	6743
5,02961+	4 9,01600-	- 3	5.62973+	4	8.35660-	3	5.62982+	4	6.92500-	3	28	3102	2146
5 62007+	A 0 17670-	2	6 67012.	A	5 67440-	2	5 47018+		A. 20000-	ž	28	3102	2147
21052321+	- 31T/0/3+	3	>*030TC+	-	-000000-	3	1000T0+	-	0020900	3	20	0195	CT4/
5.63027+	4 8.84900-	3	5.63139+	4	9.16500-	3	5.63057+	4	9.36130-	3	28	3102	2148
6 4 2002	4 0 7004	7	6 47040.		0 754		E 400E7		0 74040	-	20	74.00	34.40
2,030844	4 Y132010-	3	2.03200+	-	7,370UU®	э	2.00773+	•	2+3:3000	3	60	2105	5748
5.68968+	4 9.55800-	З	5.64978+	4	9.46460-	3	5.68997+	4	9.09600-	3	28	3102	2156
5 4001E+	A 1 1066	2	5 60025+	٨	0 47600-	7	5 40072-	Å	0.59600-	2	28	34.0.2	3154
3+520T3+	- T*T5000+	6	20792CC+	1	74770UU	ۍ	~	-	7120000	J	20	2105	CT2T
5.69047+	4 9.31958-	3	2.69148 +	4	9,34740-	3	5.91933+	4	9,32020-	3	28	3102	2152
6 00274 -	A 0 14170-	6	6 07448-	۵	0.31000-	7	6 112074		0.20771-	ż	28	3102	2157
2122214	- 2001010-	1	0.004464	7	250T000-	3	A*115014		2057179-0	u	20	OTOS	£193
6.16623+	4 9.27430-	3	6,20256+	4	9,24420-	3	6.23674+	4	9.20670+ 3	3	28	3102	2154
4 260004	4 0 1-600-	7	6 71. 77.	A	0 15260-	7	6 30414 A		0.17070-	z	28	3100	24 65
0.200004		2	0.000007+	1	7422/204	3	01014114	7	781/7/94	J	20	STOR	2122
6,43750+	4 9,17420-	3	0.46703+	4	9,12140-	3	6.48714+	4	8,96150- 3	3	28	3102	2156
6.500824	4 6.70750-	3	6.510144	4	8.34770-	7	6.520A0A	4	8.08370-	3	28	3102	2167
0.20002*	- 0111110-	~	00010144			5	U + 22 U O U +	7	0.00070-		~ 0	OT05	2121
6.52552+	4 8,43469-	3	6.53000+	4	9,13620-	3	6,53920+	4	1.07610- 2	2	28	3102	2158
4 64004	A 4 1.0540-	2	A 55049.		0 70340-	7	4 67304 -		0 41220-	z	26	34 00	2460
0.74700+	マーエッレリスマリー	6	01.77710 4	-	74/U2UU	٦.	012/200+	-	フォマンととじゃく	0	C 0	OTUC .	6124
6.59297+ 4 9.29250= 3 6.022	156+ 4	9.23389- 3	6.73752+ 4	9.19260- 3	28	3102	2160						
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6.60984+ 4 1.70510- 2 7.05	36+ 4	1.70450- 2	7.12902+ 4	1.70290- 2	28	3102	2161						
7.12955+ 4 1.70201+ 2 1.129	109+ 4	1.68620- 2	7.12979+ 4	1.72980- 2	28	3102	2162						
7.12997+ 4 1.54070+ 2 7.13	.14+ 4	1.75170- 2	7.13021+ 4	1.71330+ 2	28	3162	2163						
7.15031+ 4 1.66620= 2 7.14	45. 4	1.76550- 2	7.131434 4	1.70320- 2	28	3102	2164						
7 162884 4 1 70384 3 7 53	101	1 60-60- 3	7	1 60820- 2	20	3102	21.65						
7 693064 4 1 6026 - 2 7 605		1 60700- 2	7 600004 4	1 66730- 2	20	3402	2444						
7 469604 4 1.09740- 2 7.393		1.607.00- 2	7.000004 4	1.69402	20	3102	5100						
7.1700094 4 1.090004 2 7.700		1.07/004 2	/ • Y2Y//* 4	1.094204 2	20	3102	210/						
1.9/2/0+ 4 1.09400+ 2 3.204	130+ 4	1.07100- 2	0.520/94 4	1.04840- 5	20	3102	2100						
0,30203+ 4 1,6h7/0= 2 0,243	26+ 4	1,00/30+ 2	8,2/014+ 4	1.00029-2	Ze	3102	2109						
8.79191+ + 1.60450- 2 3.626	42+ 4	1.67910- 2	5.64992+ 4	1.56420 = 2	28	3102	21/0						
8.66591+ 4 1.3270- 2 0.670	79+ 4	9,64950- 3	5,68420+ 4	8.81660- 3	28	3102	2171						
6.08925+ 4 6.24JJu- 3 0.692	255+ 4	8.22450- 3	8.70000+ 4	1,07820+ 2	28	3102	2172						
6,70732+ 4 1,36190- 2 3,71	-75+ 4	1,36560- 2	8.72321+ 4	1.21030- 2	26	3102	2173						
8.73409+ 4 1.14050- 2 0.741	165+ 4	1,10660- 2	8.75008+ 4	1.10590- 2	26	3102	2174						
6.77358+ 4 1.49234- 2 c.840	69+ 4	1.06750- 2	8,85878+ 4	1.08566- 2	28	3102	2175						
6. 7642+ 4 1. 40223= 2 5.943	29+ 4	1.08420- 2	9.04267+ 4	1.05240- 2	28	3192	2176						
9.10401 + 4.1.00981 = 2.9.100	ú4+ 4	1.07660= 2	9.20339+ 4	1.07570- 2	28	3102	2177						
9.27241+ 4 1.06700 - 2 1.297	18+ 4	1.06593= 2	9.34277+ 4	1.07680- 2	28	3102	2178						
9.35000+ 4 1.07930+ 2 9.40	62+ 4	1.09348= 2	9.42759+ 4	1.69453- 2	28	3102	2179						
9.507924 4 1 06630m 2 3.517	45. 4	1.08590- 2	9.59735+ 4	1.06116- 2	28	3102	2180						
$\theta = 0.000$ $\theta = 0.0000$ $\theta = 0.0000$ $\theta = 0.0000$ $\theta = 0.0000$		1 07670- 2	9 604354 4	1.67463- 2	28	3102	2121						
9_{1}	50. 4	1 06600- 2	0 704404 4	1 (2000- 2	20	3402	2402						
9,/40944 4 1,005/L4 2 4,/77		1.00090- 2	9./099UF 9	1,07209-2	20	3102	2102						
9.00034+ 4 1.Je326+ 2 3.024	4/+ 4	Y.040704 3	9.030174 4	9:7/0/UP 3	20	3102	2103						
9,593//+ 4 9,2520 J= 3 9,05		1.00930- 2	9.0/623+ 4	1.20110- 2	20	3102	2184						
9.85080+ 4 1.20003- 2 9.693	1034 4	1.1//10= 2	9,905054 4	1.14925= 2	20	3102	2167						
9.91146+ 4 1,13476= 2 9.935	00+4	1,10240- 2	9,95111+ 4	1,09280- 2	26	3102	2166						
9,97106+ 4 1,0°61u+ 2 1,000	00+ 5	1.07940- 2	1.00000+ 5	0.53090- 2	28	3102	2167						
.10200E 06 .10140E-01 .1057	0E 36	,554u 0E+92	,10670E 06	.394286-01	28	32.02	2188						
.10720E 06 .37130E-01 .10c7	02 26	.513u0E-01	.11070E 06	.21960E-01	28	3102	2189						
,11170E 06 ,24200L-01 ,1147	06 6	.55500E-02	.11570E 06	.34400E-02	28	3102	2190						
,11670E 06 ,772008-02 ,1202	0E 16	.36500E-u1	.12120E 06	,454902-01	28	3102	2191						
.12120E 06 .355166-01 .1232	0E 96	22400E-01	.12420E 06	25470E-01	28	3102	2192						
.12520E 04 .32690r+61 .1272	6E 06	.17340E+01	.12620E 06	-66000F=02	28	3102	2193						
.13020E 0n .13424E-01 .1312	0F 06	.1196dE=01	.13320F 06	15460E-01	28	31.02	2194						
-13520F 00 -27250F=01 -1362	6E 06	.24764E=01	-13720E 06	.323606+01	28	3102	2105						
138205 06 334606-01 1397	GE OA	246445-01	14020E 06	288005-01	28	3102	2106						
144206 06 1901u==03 1443	02 06	251466-01	140205 04	130005-01	28	3402	2107						
100000 04 100100-01 1000 100000 04 100100-01 1670	0C JO	154405-01	154700 04	04000E-00	20	3102	24 0.0						
12020E 00 109302-01 1232		-3200000002	120/UE UO	.70700E=02	20	3400	21.00						
178/UE UG 11500EPUI 10/	UE UO	.21/BUE=01	,102/05 00	,31490E-01	20	3102	5133						
165/UE 06 ,96500E-02 ,1677	0F 90	.1252JE+01	.1700UE 06	.25000E-01	28	3102	2270						
,1/2006 G6 ,2~000E=01 ,1800	UE UD	.99000E=92	,19000E 06	,130092-01	28	3102	2201						
,1980UE 05 ,14000E=01 ,2060	UE 15	,10006E-01	-21600E 06	10800E-01	28	3102	2202						
.∠1000E 06 .10000£=01 .2200	0E 06	,130u∪E≠ù1	,22400E 06	,98COOE=02	28	3102	2203						
.23200E 05 .15030E-01 .2490	05 JG	.100u0E-01	.246D0E 06	,15500E-01	28	3102	2204						
.20200E 06 .98800E-02 .2580	UË 06	,14000E-01	,26600E 06	,98000E-02	28	3102	2205						
.27200E 00 .80000E=02 .2755	CE 85	.11500E-01	,28400E 06	.11C00E-01	28	3102	2206						
.29200E 05 .150002-01 .2960	UE UG	.10000E-01	.29800E 06	,18500E=01	28	3102	2207						
. JU200E 06 .130106-01 .314.	9E 06	.10000E+01	.33000E 06	.90000E-02	28	3102	220B						
.34600E 06 .15500F=01 .3500	LE AD	150auF=01	.36000E 0A	.11500F+01	28	3102	2209						
.37000E 06 .11.Juit-01 3830	An 46	.050008-02	40000 04	.850005-02	28	3102	2210						
-43000E 06 12600E-01 4600	00 64	.0500.05-02	510005 04	.115000-04	28	3102	2211						
- ANDUNE NA - ERCONE-DI - 44000 - ANDUNE NA - ERCONE-DI - 44000	00 00	780845-04	50000C 04	720005-01	20	3107	2242						
100000E 00 (00000E=02)/000 00000E 04 74:364409 4036	40 30 AC 67	7460002702	420005 00	7400000-02	20	2482	2243						
14000C 00 ./HCOVETUE .1030	CE 0/	+ 100000E-02	100005 07	\$70000E=02	20	3102	2213						
.14000E 0/ ,//0J0E-02 .16dJ	VE 0/	.0000000-12	10000E 01	47/UUUE=02	20	3102	2214						
.20000E 07 ,49300E-02 .2500	UE 07	. JONNAE-02	+30000E 07	.2/UUUE=02	28	3102	2215						
.35000E 07 .21000E-02 .4000	0E 07	.16000E=02	.50000E 07	.110C0E+02	28	3102	2216						
.00000E 07 .75000E-03 .80LD	GE 07	,450p0E-03	,10000E 08	.34000E-03	28	3102	2217						
.15000E OF .27.JUE-03 .2000	0E 08	.24000E-03	.00000E 00	.00000E 00	28	3102	2218						
.00000E 00 .00000c 00					28	3 0	2219						

3 0300× A	S 04006. 4						-	20	7407	2024
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9 <b>.</b> «	+ u	6.0	+			U		- 1		1		2	28	2	91	2839
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	05	125046	-li	5 .600	INE G	5	16300F	-115	-75080E	05	.199205.	05	28	5	94	2847
5.10106	54	3430		1050	.a= .	~	2660.6	-05	123095	04	202705	.05	20	é	64	2042
1 100000	0.	200700	- 01	- <u>11</u> 079 - 16	905 U	4	16420C	-02	446605	04	393005	02	20	2	71	2040
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.229005	00	4/9306	- U	.240	UDE U	ò	.50010E	-05	+255UUE	00	-2197UE	05	28	2	71	2051
.2/JJUE	60	.53830	- U	,2851	INE 0	0	,5224UE	-05	.39000E	00	.57240E-		20	2	91	292
• ≎€ 900E	Ũ٥	.0000uf	: 6	,0000	90E C	0	.COCUJE	0 U	.00000E	00	,00000E	00	25	5	91	2853
*PE 330E	0 3	.400305	: 07			U		1		1		22	28	5	91	2854
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.45000E	05	.12500E	-07	.6090	JUE O	5	.16309E-	-15	,75000E	05	.199206-	05	28	5	91	2857
.9090E	05	.23390E	-05	.1050	0 <b>0E</b> a	6	2669UE-	05	12000E	06	-29830E-	05	28	5	91	2658
13500E	66	.32630F	e i l	.1500	0E 0	6	35680E	-85	-10500E	06	.38390F	05	28	5	91	2859
188805	06	409606		.1950	INE G	6	434106	.05	21000E	06	457305-	.66	26	ŝ.	04	2864
228806	0.	470305	- 14	240		š	668400		265006	n.	510706-	.06	29	ś	04	2844
22200E	00 04	636300		245	່າວເປັ	6	.6560.C	0.9 AA	300005	04	-572466-	.06	29	ź.	71 G1	2001
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.1000E	-04	.00000E	្រប	.3200	10E 0.	5	20040E-	-06	+64000E	05	.38230E-	06	28	5	91	2866
.y6000E	05	.54700E	-:16	.1280	0 <b>e</b> 0	6,	69570E-	•06	.16000E	06	.82960E+	06	28	5	<b>91</b>	2867
.1-200E	60	,949808	-04	.2240	,0E u	6	10570E-	りう	,25600E	06	,115306-	05	28	5	91	2868
, 28300E	06	.12370H	- 05	.3200	0E 0	6	13120E-	05	.35200E	06	,13770F-	05	28	5	91	2669
.36400F	06	.14330F	-05	4160	DE n	6	14810E-	•05	.44800E	60	.15230F-	05	28	5	91	2870
48000F	66	.15570	-35	.512	0E 6	6	1585UF-	-05	-54400E	06	-16970F-	85	28	5	91	2871
-76000	0.4	162400		.6080	NOF 0	6	163706-	.05	640005	n.	16450E-	ñ5	28	5	91	2672
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14900C	04	444030	-02	/U4L		<u>،</u>	443406-	-07 .ne	800000	04		00	20	ś.	04 04	20/3
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10000E	-04	.000006	10	.4333	50E 0	5 (	13800E-	•06	.86670E	05	,26070E-	06	28	5	91	2877
.13000E	Ũ6	.3694UE		.1733	50E 0	6	4652UE-	-06	.21670E	06	.54920E-	96	26	5	91	2678
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10000 C	7.376.5.406	AZ 1 105	0.6	224505-04	47470C	04	850105-04	28	6	04	2880
ASTOOLE UN	.//////		U U	.020702-00	, 47070E	00	1000105400	20	2	74	2000
	。わりうひょときなり	.>0330E	0.0	*AN000F-05	,60670E	69	92270E-06	28	2	91	2861
. <b>0000E</b> 00	.,9344úÉ≠00	.69530E	66	,9421JE~ú6	"73670E	60	<b>.94620E+06</b>	28	5	-91	2682
.7-000E Ce	.94720F=40	.823505	61	.94536E-06	.86670E	06	.94390E-06	- 28	5	91	2883
1100E 04	الألب والأرك مكاف	05		425705-06	904766	64	015405-04	28	5	01	2884
4 1000E 00	+734302-40	40, 30L		, 76 J / 06 - 00	1770702	00	1713405-00	20	1	74	0004
10400E 07	.945n⊎ <b>⊭</b> +36	.10530E	ű/	,89UC4E-06	,11270E	U7	.0/64#E=06	26	2	91	2065
.11700E 07	. 341398-46	,12130E	ù7	.84540E-06	.12570E	07	.82890E-06	28	5	91	2896
.13000F 07	.611946-46	.13000E	7	.0000886 1.0	.00000F	0.0	.00000F C0	28	5	91	2887
	A01 1115 07		6	1		- 4	30	28	Ē	01	2680
PROPORE OF	*DACANE NA		v	4		-	52	20	1	71	2000
Sź	2							28	2	. 21	2009
.10000E=04	.610006 00	.76670E	35	.12950E-u6	.15330E	06	.23620E-06	25	5	-91	2890
JANUBE RE	323001=06	30670F	36	39280E+6	.38330F	06	447985-86	28	5	94	2891
	41230000-00	57:00C		60100E-00	617700		54440C 04	20	é	<u></u>	2600
PACONOE CO	490auE=00	.93670E	00	1351205-30	.01330E	00	+344407.400	20	2		2072
171000E 54	,599JUE=00	.7667CE	<b>00</b>	.56700E-06	.64330E	80	.56950E-06	28	5	91	2693
. 12000E Co	.5375dE-06	,9967CE	Û6	.56170E-05	.10730E	07	55270E-06	28	5	91	2894
1150aE CJ	44.44	12270F	67	525 JUE + 6	-13030F	ñ7	513205-06	28	5	91	2805
1 (900r 67	107206-06	14-705	.7	1805-65-04	167205	07	447206 04	20	é	61	2004
.13000E U/	.49/262=00	.142/0E	41	400200-00	+12320E	0/	19032UE-00	20	2	ÄT.	2040
.15190E 0/	,44 <b>2</b> 60∈#U&	.16370E	57	,42800E-06	.17630E	07	<b>41040E-06</b>	28	5	91	2897
.104J0E 07	.39300E=06	.1917JE	07	.3759GE-06	.19930E	07	.359202-06	28	5	91	2898
29790E 07	343005=06	.2147úE	117	32736E=06	-22230E	07	31/205-06	28	5	91	2800
	207716-06	221 06	07	0.00006 0.	000000	<b>n</b> .	000000 00	26	ź	6.	2000
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**************************************	.50000E 07		U	1		1	42	28	5	91	2901
4/	2							28	5	91	2902
11000E=04	.6.5.000 00	.10756E	86	.16450E+66	.21500E	₿.A	.186805-06	28	5	01	2013
10000E 04	Conde Diant	420005		30870E_24	627600	04	134000-04	20	é	61	2004
A JEC JUE UT	.229205-00	, HOUSUE	90	+270/0E-10	.5375UE	00	.334002400	20	2	AT.	2904
+04200E 05	.3550UE-JO	.75250E	<b>U</b> 6	,3/430E=u5	.8600QE	06	,38300E=06	28	5	91	2905
.y6750E CA	.38580E-06	.10750E	u7	.38390E+06	.11820E	07	.37840E-06	28	5	91	2906
129666 67	37 1006-96	139705	ō7	359546-06	15050F	07	347305-06	2Å	5	Q1	2967
12/00L 0/		17/00		720005-00	100705	~ ~	20540000-00	20	2		0000
*10120E C/	.33419E#UD	•1/20VE	97	.3≤UUUE≠05	102/UE	0,	130200F=00	28	2	<b>A</b> 1	2908
.19350E C7	.2910vE=06	20420E	-37	.27640E-ú6	,21500E	07	.26210E-06	28	5	91	2909
.2570E C7	.24800E=06	,23050E	37	,23440E-36	.24720E	07	.22140E=06	28	5	91	2910
258006 02	234806-06	26470F	07	19698E=C6	27050F	<b>D7</b>	18560=-06	28	5	91	2911
200000 07	4740000-00	200700		44446.44	1117700	~ 7	455705 0/	20	É	<b>6</b>	2012
.29040E J/	,1/490E-00	"ONTOOL	07	1040UC-10	.STTINE	U/	+122205-00	20	2	AT.	2912
.32256E U7	■14659£=06	.333202	¥ ل	.13820E+65	,34400E	07	13C20E=06	28	5	91	2913
.35470E U/	.12330E=06	.3655UE	97	.11670E-36	.376205	07	\$11050E-06	28	5	91	2914
55700E 07	114805-06	39770-	ii 7	9949:F=37	40850F	07	94630E-07	28	5	91	2915
41020E 67	004405-07	4706		9401-2	470005	07	000000-00	20	É	64	2014
, 172UE U/	*A0140Eenv	.400606	07	*00010C-01		0/	IDVUUDE UU	20	2	71	2710
.JC000E 02	,100JUE 08		Ű	1		1	42	28	5	91	2917
44	6							28	5	91	2918
150005-04		157506		109205-06	.315006	06	.188706-06	28	5	01	2010
413000E-04	1000002E 00	(2. 0.		110700C 00	704200C	00	204700-00	20	é		C 7 1 7
14729UE US	.24400E=CO	.030000	10	.20%/JE=00	./0/202	UQ.	.304302-00	20	2	A1	2920
,94500E C6	.31570E-06	.11620E	67	.31860E-06	.12600E	07	.31520E=06	28	5	91	2921
.14170E 07	.30710E-06	,15750t	97	.2957uE-06	.17320E	07	.28210E-06	28	5	<b>§1</b>	2922
144606 07	26720F-04	204705	7	25150F-04	220505	07	-23560E=06	28	5	91	2923
		060000			247705	~~	480700-04	20	é	64	2024
.2302UE 0/	.21900E+0C	.22209C	U/	+209296-00	120//UE	07	*16A\AF+A0	20	2	Å1	2924
.28350E 07	,1757UE=06	.29926E	07	,16250E-06	,31500E	07	.15020E=06	28	5	91	2925
.33070E 07	.1328668-06	,34650E	7ن	.12820E-00	.36220E	07	.11850E+06	28	5	71	2926
32800E 07	149705-06	393708	ñ7	10160E-06	40950F	07	942405-07	28	5	04	2927
	075602-00	A41001	.7	0164.0C7	464706	~~	744305-07	20	É	~ <b>1</b>	2020
+2220E U/	+0/20UE=U/	,4410UE	<b>u</b> /	+01300F=21	+70/02	U/	./013UE=U7	60	2	71	2450
47250E 07	.71240E=07	,48820E	67	.56850E-37	.504UDE	07	,62910E=07	28	5	91	2929
.519785 67	.59390E=07	.535506	07	.56230E+37	.55120F	û7	.53410E-07	28	5	91	2930
567005 07	504965-67	582705		4864-1-17	509605	07	466305-07	20	ž.	04	20 24
44400C 01		47.00		+	470000	07 07		20	2	71	6731
-01-20E U/	,440362-0/	.031005	J/	.=020UE=57	POSUBUE	07	• <b>UUUUUE 00</b>	28	2	71	2425
.000000E 00	.120008 08		Ģ	1		1	51	28	5	91	2933
51	2							2B	5	91	2934
1.00000-04	000666	166006	c é	0280.5-07	332005	04	141305-04	26		04	2015
100002-04	100000C 00	.TOCODE	00		1002000	00	1-CTORE-00	20	2	71	2737
,49000E 06	.21010E=06	.664U0E	ŨÓ	.24350E-06	.8300DE	06	-20430E-06	28	5	91	2936
,996COE 06	.27570L-U6	.11626E	u7 -	.27970E-06	.13280E	07	.27810E+06	28	5	91	2937
.14940E 07	.27240E+06	.166auF	íu7	.2636#E-#A	.18260F	07	.25270E-RA	28	5	Q1	2038
100205 07	240505-64	216865	67	227405-04	212405	ñż	213005-04	28	Ē	64	2070
+1776UE U/	***********	121300E	•	1251405-00	******	v /	1-13205-00	20	2	71	2737

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1	.20050E-06	.26560E	ე7	.18720E-06	.28220E	07	.174302-06	26	5	91	2940
.29880E 07	.16206F-06	.31540F	e; 7	.150 (0F-04	.332605	67	.139365-04	28	5	0.	2941
148605 07	120006-04	3-5-705	37	4404.05-04	784000	0.7	110505 04	20	é	0.4	2040
104000E 07	127000-00	- 30920E		·11770E-00	.3010UE	0/	4119708-00 071008-00	20	2	71	2992
.39CHUE U/	+192306-00	41200C	57	,9403JE-07	4010UE	0/	•0/>>VE=U/	20	2	- 41	2943
4820E 07	.81660±-C7	.4648UE	ນ7	.75940E-07	.48140E	07	.707496-07	- 28	- 5	- 91	2944
.49600E 07	.660305-07	.51460E	37	.61763F+07	.53120E	07	.579106-07	28	- 5	91	2945
	544305-07	560406	a 7	512605-02	561000	07	464705-07	25	ŝ	0.1	2044
134760E 07	· · · · · · · · · · · · · · · · · · ·	. JO44UE		121230E-07	.20100E	0/	.404/0240/	20	2	41	2940
.59/OUE U/	409366-07	.014201	/ وا	.4304JE=0/	.63080E	07	.4158VE-07	- 28	2	- 91	2947
.04740E 07	.39740E+07	.664 <b>0</b> 0€	67	.3807JE-57	.68060E	07	.355806-07	- 28	- 5	-91	-2948
.09720E 07	.35230E+C7	.71380E	87	.34020E~u7	.73040E	67	.32720F-07	28	5	-91	2949
7.7606 07	310305-07	763405	47	310405-37	790205	07	302305-07	22	Ē	01	2020
1/4/00E 0/	101700E-07	.703000	٠ <u>′</u>	-010405-07	•/ CUZUE	0/	.002002-07	20	1	71	2739
./YOUNE U/	129490E-07	.0134UE	u /	.20020E=07	,83000E	07	*Auroaf 00	< 8	2	. 41	2951
*11060E 00	,140CCE 08		0	1		1	51	- 28	- 5	91	2952
51	. 2							28	5	91	2953
.1.1000E=04	.0000666 66	20660E	36	. 946905-27	412005	06	.161000-04	28	5	01	2054
-15400 04	005/00-06	93.665	~ 4	273.01-04	402000		343005 04	20	-		
"STANAE NO	.292408-00	.024000	0.0	.200005-00	*Ingune	0/	.24/90UD	20	2		2422
.⊥2360E 07	,29330E-06	,14420E	- D <b>Z</b>	.25180E-06	,16480E	97	,245405-06	- 28	- 5	- 91	- 2936
.18548E 07	.23550E-CO	.20600E	37	.22350E-06	.22660E	07	.2102906	28	-5	91	2957
JA7205 02	104205-04	267296	6.7	182105-04	249406	0.7	166205-06	20	Ē.	04	2056
1:0000 07	190202-00	12070JL		1400100	120040E		47470 - 44	20	1		2720
.JUYUUE U/	1549VE*30	.3290UE	97	.14220E-00	.370202	07	.1303006	28	2	. 91	2459
.37080E 07	.11920E=U6	.39140E	<b>37</b>	.1093JE-06	,41200E	07	.99580L-07	- 28	- 5	-91	- 2960
.43268E 07	.91030E-07	.45320E	u7	.03200E-07	.4738DE	67	.76270F+07	28	- 5	91	2961
464405 07	40060E-07	515005	07	64300E-07	57540E	67	502405-07	26	Ē	04	2042
1 1 1 4 UE U/	107705E+C7	53/005		1010000-07	100000	07	· ////	20	2	71	2702
.00020E U7	,54/1UE+U/	.5/68UE	47	· 20097F=0/	• <b>&gt; Y</b> / 46E	U /	.4/%90%=07	28	2	91	2953
.61800E 07	,43900E-C7	.63860E	07	.41660E-37	.65920E	07	.38550r-07	- 28	- 5	-91	2964
.57980E U7	.36320E-07	.70040E	o7	.34340E-97	.72100E	07	.320805-07	28	- 5	91	2965
.74160E 07	31020F=07	76220F	117	.29640E+07	78260F	67	284802-07	28	5	91	2966
11405 07	27200-007	22400E	. 7	243016-07	SAAAAE	07	264261-07	22	ć	- a.	2047
+33340E U/	-2/300E-0/	.024UUE	67	,200205-37	.0440UE	07	.2743UE=U/	20	2	1	2401
.=6520E 07	.24640E-07	.88560E	C7	.23920E=07	.90640E	07	,23270E-07	26	- 5	- 71	2963
.92700E 07	.226806-07	.94760E	J7	.22140E=07	.96820E	07	.216486-07	28	5	71	2969
6-860E 07	044905 03	401 - 40		• I I I I I I I I I I I I I I I I I I I					-		
	2112012	1 1 1 1 1 1 1 1 1	1.8	. 2076-6-07	144006	fo fii	. 6600005 00	26	<b>F</b>	•••	207:
1000E 07	-21100E-9/	.100905	08	.207535-07	.103DDE	08	.GH0998 00	25	5	91	2976
,30000E 00	16000E 05	.100905	940 0	.20755E-77 1	.10300E	0E 1	.60090E 00 52	25 28	5	91 91	2976 2971
.JUNNOE 00 52	.1600CE 05	.100905	940 0	.20753E-47 1	,10300E	0E 1	.08090E 00 52	25 28 28	55	91 91 91	2976 2971 2972
.30000E 00 52 .10000E=04	.160000E 06	.10090E	08 U 06	.207555-47 1 .96010E-07	.103DDE	08 1 06	.6#090E 00 52 .16020E-06	25 28 28 28	5555	91 91 91 91	2976 2971 2972 2973
.3000E 07 .3000E 00 52 .10000E=04	.21180000 08 .000000 08 .200506-06	.10090E	96 06	.207535-47 1 .96010E-97	.103DDE	0E 1 06 07	.00000E 00 52 .16020E-06 23300E-04	25 28 28 28 28	55555	91 91 91 91	2976 2971 2972 2973 2973
.JUCODE-04 .75600E 05	.211802-97 .160002 08 .000002 08 .200502-06	.24600E	08 0 06 66	.20753E-47 1 .96010E-07 .22320E-06	.49200E .12300E	0E 1 06 07	.64090E 00 52 .16020E-06 .2330UE-06	25 28 28 28 28	55555	91 91 91 91 91	2976 2971 2972 2973 2974
.JUCODE-04 .JUCODE-04 .75600E 05 .14760E 07	.211802-57 .160000E 08 .00000E 08 .20050E-06 .23360E-00	.24600E .96400E .17220E	00 00 00 00 00 00 00 00	.20753E-47 1 .96010E-07 .22320E-06 .22810E-06	.49200E .12300E .19680E	0E 1 06 07 07	.64090E 00 52 .16020E-06 .2330UE-06 .21830E-06	25 28 28 28 28 28	555555	91 91 91 91 91 91 91	2976 2971 2972 2973 2974 2975
.JUCODE 07 .JUCODE 00 52 .1UCODE=04 .75&00E 06 .14760E 07 .22140E 07	.211802-07 .160002 08 .600002 08 .200502-06 .233602-06 .205002-66	.24600E .98400E .17220E .24600E	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.20753E-47 1 .96010E-07 .22320E-06 .22810E-06 .19190E-06	.49200E .12300E .19680E .27060E	0E 1 06 07 07 07	.60090E 00 52 .16020E-06 .2330UE-06 .21830E-06 .17740E-06	25 28 28 28 28 28 28 28 28	5555555	91 91 91 91 91 91 91	2976 2971 2972 2973 2973 2974 2975 2976
.3000E 00 52 1000E-04 .75800E 06 .14760E 07 .22140E 07 .29520E 07	.2110000 06 .160000 06 .20050000 06 .2005000000 .205000000 .2050000000 .2050000000000	.24600E .96400E .17220E .24609E .31980E	00 00 00 00 00 00 00 00 00 00 00 00 00	.20753E-47 1 .96010E-97 .22320E-36 .22810E-96 .19190E-66 .19190E-66	.49200E .12300E .19680E .27060E .34440E	0E 1 06 07 07 07 07	.60000E 00 52 .16020E-06 .2330UE-06 .21830E-06 .17740E-06 .13720E-06	25 28 28 28 28 28 28 28 28 28	55555555	91 91 91 91 91 91 91 91 91	2976 2971 2972 2973 2974 2975 2976 2977
.30000E 00 52 10000E=04 .73600E 06 .14760E 07 .22140E 07 .35900E 07	.21100000 .160000000000 .20050000000 .2005000000 .2336000000 .2550000000 .1256000000 .1256000000	.24600E .96400E .7220E .24609E .31980E .39360E	00 00 00 00 00 00 00 00 00 00 00 00 00	.20753E-47 1 .96010E-97 .22320E-06 .22810E-06 .19190E-06 .14669E-06	.49200E .12300E .12300E .27060E .34440E .41820E	0E 1 06 07 07 07 07 07	.60000000 52 .16020000 .23300000 .21830000 .17740000 .17740000 .137200000	25 25 25 25 25 25 25 25 25 25 25 25	555555555	91 91 91 91 91 91 91 91 91	2976 2971 2972 2973 2974 2975 2976 2976 2977
,30000E 00 52 10000E=04 .73800E 06 .14760E 07 .22140E 07 .36900E 07 .56900E 07	.2110000 06 .160000 06 .20050000000 .2005000000 .205000000 .1628000000 .1628000000 .1628000000 .16280000000 .16280000000 .16280000000 .16280000000 .1628000000000 .1628000000000000 .1628000000000000000000000000000000000000	.24600E .24600E .7220E .24600E .31950E .39360E	00000000000000000000000000000000000000	.207532-37 1 ,96010E-07 .22320E-06 .22810E-06 .19190E-06 .14669E-36 .11090E-06	.49200E .12300E .19680E .27060E .34440E .41820E	0E 1 06 07 07 07 07 07	.6H190E 00 52 .16120E-06 .2330UE-06 .21330E-06 .17740E-06 .13720E-06 .1.20E-06	25 25 25 25 25 25 25 25 25 25 25 25 25 2	5555555555	91 91 91 91 91 91 91 91 91	2976 2971 2972 2973 2974 2975 2976 2976 2977 2978
JUCODE 00 52 JUCODE=04 75&00E 06 14760E 07 22140E 07 29520E 07 36900E 07 44280E 07	.2110000 06 .160000 06 .20050000 06 .2005000000 .205000000 .255000000 .162800000 .1226000000 .12260000000 .122600000000000000000000000000000000000	.24600E .96400E .17220E .24609E .31990E .39360E .46740E	00000000000000000000000000000000000000	.207532-47 1 .960100E-97 .22320E-06 .22810E-06 .19190E-06 .14669E-26 .1090E-06 .61770E-07	.49200E .12300E .19680E .27060E .34440E .41820E .49200E	0E 1 06 07 07 07 07 07 07	.6H090E 00 52 .16C20E-06 .2330UE-06 .21830E-06 .17740E-06 .13720E-06 .15720E-06 .73930E-07	25 25 25 25 25 25 25 25 25 25 25 25 25 2	555555555555	91 91 91 91 91 91 91 91 91 91 91 91	2976 2971 2972 2973 2973 2974 2975 2976 2977 2978 2979
JUCODE 00 52 1UCODE=04 75600E 06 14760E 07 22140E 07 29520E 07 36900E 07 51660E 07	.21100000 .160000000000 .200500000000 .2005000000 .2336000000 .2350000000 .1628000000 .1226000000 .1226000000 .12260000000 .122600000000 .22110000000000000000000000000000000000	.24600E .984C0E .17220E .24609E .39360E .4674GE .54120E	00000000000000000000000000000000000000	.20753E-47 1 .96010E-97 .22320E-06 .22810E-06 .14669E-26 .11090E-06 .681770E-07 .60720E-97	.49200E .12300E .19680E .27060E .4440E .41820E .49200E .56580E	0E 1 06 07 07 07 07 07 07 07	.6H090E 00 52 .16C20E-06 .2330UE-06 .21830E-06 .17740E-06 .15720E-06 .1%20E-06 .73430E-07 .5720E-07	28 28 28 28 28 28 28 28 28 28 28 28 28 2	555555555555	91 91 91 91 91 91 91 91 91 91 91	2976 2971 2972 2973 2974 2975 2976 2976 2977 2978 2979 2980
,30000E 00 52 10000E=04 73600E 06 14760E 07 22140E 07 249520E 07 36900E 07 44280E 07 59040E 07	.211000000 .1600000000000 .200500000000 .20050000000 .2050000000 .2050000000 .2050000000 .20500000000 .205000000000 .200500000000000 .20050000000000000000000000000000000000	.24600E .984C0E .17220E .24609E .31980E .39360E .46740E .54120E .61500E	00000000000000000000000000000000000000	.20753E-47 1 ,96010E-07 .22320E-06 .22810E-06 .19190E-06 .14669E-06 .11090E-06 .6170E-07 .60720E-07 .6099E-37	.49200E .12300E .19680E .27060E .34440E .49200E .56580E .63960E	00 1 06 07 07 07 07 07 07 07 07	.6H199E 00 52 .16120E-06 .2330UE-06 .21830E-06 .17740E-06 .13720E-06 .15720E-07 .5720E-07 .42530E-07	25 25 25 25 25 25 25 25 25 25 25 25 25 2	555555555555555555555555555555555555555	91 91 91 91 91 91 91 91 91 91 91 91 91	2976 2971 2972 2973 2974 2975 2976 2977 2978 2978 2986 2961
JUCODE 00 52 1UCODE=04 75&00E 06 14760E 07 22140E 07 29520E 07 36900E 07 36900E 07 59040E 07 59040E 07	21100000 160000000000000 200500000000000 205000000000 2050000000 1620000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 12260000000 12260000000 1226000000 1226000000 12260000000 12260000000 12260000000 12260000000 12260000000 12260000000 12260000000 12260000000 122600000000 12260000000 12260000000 12260000000 12260000000 12260000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 1226000000 12260000000 12260000000 12260000000 12260000000 122600000000 122600000000000000000000000000000000000	.24600E .96400E .17220E .24609E .31980E .39360E .46740E .54120E .61500E .68859E	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.20753E-47 1 ,96010E-97 .22320E-36 .22810E-06 .19190E-06 .14669E-26 .1090E-46 .81770E-37 .60720E-07 .46090E-37 .36130E-07	.49200E .12300E .12300E .19680E .27060E .34440E .41820E .56580E .63960E .71340E	00 1 06 07 07 07 07 07 07 07 07 07	.6H199E 00 52 .16120E-06 .2330UE-06 .21830E-06 .17740E-06 .13720E-06 .1.20E-06 .73930E-07 .5720E-07 .42539E-07 .3396E-07	28888282828888888888888888888888888888	555555555555555555555555555555555555555	91199199999999999999999999999999999999	2976 2977 2972 2973 2973 2974 2975 2976 2977 2976 2977 2976 2979 2980 2961 2965
JUCODE 00 52 1UCODE=04 75&00E 06 14760E 07 22140E 07 36900E 07 36900E 07 59040E 07 59040E 07 03600E 07 23660E 07	211000000 1600000000000 2005000000000 20050000000 16280000000 1628000000 1226000000 1226000000 1226000000 1226000000 1226000000 12000000000 130000000000 130000000000000	.24600E .24600E .7220E .24609E .39360E .4674GE .54120E .61500E .68889E	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.20753E-47 1 .96010E-97 .22320E-06 .22810E-06 .14669E-26 .11090E-06 .81770E-07 .60720E-07 .46090E-37 .36130E-07 .36130E-07	.49200E .12300E .19680E .34440E .41820E .49200E .56580E .53960E .71340E .2920E	00 1 00 00 00 00 00 00 00 00 0	.64000E 00 52 .16020E-06 .2330UE-06 .21830E-06 .17740E-06 .15720E-06 .15720E-07 .5720E-07 .3590E-07 .3590E-07 .27210E-07	28888888888888888888888888888888888888	555555555555555555555555555555555555555	99119999999999999999999999999999999999	2970 2971 2972 2973 2974 2975 2976 2976 2976 2976 2978 2980 2980 2981 2984 2984
30000E 00 52 10000E=04 73800E 06 14760E 07 22140E 07 29520E 07 36900E 07 51660E 07 59040E 07 373600E 07	2110000000 60000000000000000000000000000	.24600E .98400E .17220E .24609E .31990E .46740E .54120E .61500E .68859E .76260E	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.20753E-47 1 .96010E-07 .22320E-06 .22810E-06 .19190E-06 .14669E-76 .60720E-07 .60720E-07 .6093E-07 .6030E-07 .29420E-07	.49200E .12300E .19680E .27060E .34440E .49200E .56580E .56580E .71340E .7820E	000 000 000 000 000 000 000 000 000 00	.6%090E 00 52 .16°20E-06 .2330UE-06 .17740E-06 .13720E-06 .13720E-06 .75930E-07 .5720E-07 .33590E-07 .27710E-07	28888888888888888888888888888888888888	555555555555555555555555555555555555555	99999999999999999999999999999999999999	2976 2977 2972 2973 2974 2976 2976 2976 2976 2976 2976 2978 2986 2962 2963 2963
JUCODE 00 52 JUCODE-04 75&00E 06 14760E 07 22140E 07 229520E 07 36900E 07 36900E 07 59040E 07 59040E 07 36402E 07 373600E 07 373600E 07	211000000 160000000000000 200500000000000 20050000000000	.24600E .98400E .7220E .24609E .31980E .39360E .6740E .61500E .68889L .76260E .83640E	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	.20753E-47 1 ,96010E-07 .22320E-06 .22810E-06 .19190E-06 .14669E-06 .1090E-07 .60720E-07 .60720E-07 .6030E-07 .56130E-07 .29420E-07	.49200E .12300E .19680E .27060E .34440E .49200E .56580E .63960E .71340E .78720E .86100E	00 00 00 00 00 00 00 00 00 00 00 00 00	.6HC90E 00 52 .16C20E-06 .21330E-06 .21330E-06 .17740E-06 .15720E-06 .1.20E-06 .75930E-07 .5720E-07 .42530E-07 .27710E-07 .23720E-07	28888888888888888888888888888888888888	555555555555555555555555555555555555555	99999999999999999999999999999999999999	2976 2977 2972 2973 2974 2975 2977 2977 2977 2977 2979 2980 2961 2962 2963 2963 2964
JUCODE 00 JUCODE=04 JUCODE=04 J4760E 07 J2140E 07 J29520E 07 J59900E 07 J59040E 07 J59040E 07 J59040E 07 J3660E 07 J3660E 07 J3660E 07 J3660E 07 J3650E 07	211000000 60000000000000 20050000000000 200500000000 16280000000 1628000000 1226000000 1226000000 1226000000 5036000000 5036000000 3902000000 262100000 2269000000 2269000000	.24600E .96400E .17220E .24609E .31980E .39360E .46740E .54120E .61500E .68889E .76260E .83640E .91020E	ひ りんうりょううちょうじょし	.20753E-47 1 .96010E-97 .22320E-06 .22810E-06 .14669E-26 .11090E-06 .81770E-07 .60720E-07 .60720E-07 .6030E-07 .24880E-07 .24880E-07	.49200E .12300E .19680E .27060E .34440E .41820E .56580E .56580E .71340E .76720E .86100E .934E0E	00 00 00 00 00 00 00 00 00 00 00 00 00	.64000E 00 52 .16020E-06 .2330UE-06 .21830E-06 .17740E-06 .1.020E-06 .1.020E-06 .73930E-07 .5720E-07 .33590E-07 .23720E-07 .23720E-07 .24950E-07	22222222222222222222222222222222222222	555555555555555555555555555555555555555	9999999999999999999999	2975 2977 2972 2973 2973 2975 2975 2975 2975 2976 2976 2978 2985 2985 2985 2985
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JUCODE 00 JUCODE=04 75&00E 07 14760E 07 22140E 07 229520E 07 36900E 07 36900E 07 36900E 07 36420E 07 36420E 07 36420E 07 36560E 07	21100000000000000000000000000000000000	.24600E .98400E .17220E .346096E .39360E .39360E .46746E .54120E .68859E .76260E .83640E .91020E .98460E .11320E .12056E .00660E	0 0000000000000000000000000000000000000	.20753E-47 1 .96010E-97 .2232uE-36 .22810E-46 .14669E-26 .14090E-37 .60722E-07 .60722E-07 .60730E-07 .24880E-07 .24880E-07 .24880E-07 .17920E-7 .16640E-67 .15570E-07 .00000E 00 1	.49200E .12300E .19680E .27060E .34440E .41820E .56580E .56580E .71340E .71340E .78720E .86100E .1090E .1090E .11560E .12300E	01 0677777777777777777777777777777777777	.6000000000000000000000000000000000000	25858888888888888888888888888888888888	シララララララララララララララララ ううううち	999999999999999999999999999	2977 2977 2977 2977 2977 2977 2977 2977
JUCODE 00 JUCODE 04 JUCODE=04 JUCODE=04 JUCODE=04 JUCODE=04 JUCODE=04 JUCODE 07 JUCODE 07 JUCODE 07 JUCODE 07 JUCODE 07 JUCODE 04 JUCODE 00 JUCODE 00 JUCODE 00	21100000000000000000000000000000000000	.24600E .98400E .17220E .24609E .31980E .39360E .46740E .54120E .61500E .66580E .76260E .83640E .91020E .98400E .10580E .10580E .12050E .2050E	0.439.0435.03030.000.000	.20753E-47 1 .96010E-97 .22320E-06 .22810E-06 .14669E-26 .11090E-06 .81770E-07 .60720E-07 .60720E-07 .29420E-07 .24880E-07 .21770E-07 .19560E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16740E-07 .16740E-07 .16740E-07 .16740E-07 .16740E-07 .16	.49200E .12300E .19680E .27060E .34440E .41820E .56580E .56580E .71340E .76720E .86100E .93480E .10090E .10820E .12300E .04000E	0100777777777778333001	. 64000E 00 52 .16120E-06 .2330UE-06 .21330E-06 .17740E-06 .13720E-06 .1.020E-06 .1.020E-07 .35920E-07 .3590E-07 .23720E-07 .23950E-07 .19960E-07 .16260E-07 .15250E-07 .03500E-07 .52	258688888888888888888888888888888888888	555555555555555555555555555555555555555	999999999999999999999999999999999999999	297;12 297;2297;32 297;32 297;32 297;32 297;32 297;32 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;30 299;
JUCODE 00 JUCODE 04 JUCODE=04 J4760E 07 J22140E 07 J29520E 07 J44280E 07 J1660E 07 J1660E 07 J1660E 07 J1660E 07 J1660E 07 J1660E 07 J17360E 07 J1760E 08 J1760E 08	21100000000000000000000000000000000000	.24600E .98400E .17220E .24609E .39360E .4674GE .54120E .54120E .61500E .688892L .76260E .98400E .10580E .10580E .10580E .12050E .12050E .32600E	00000000000000000000000000000000000000	.20753E-47 1 .96010E-97 .22320E-06 .22810E-06 .19190E-06 .14609E-76 .61770E-07 .60720E-07 .60720E-07 .24880E-07 .24880E-07 .24880E-07 .24880E-07 .17920E-07 .16640E-07 .15570E-07 .00000E-00 1 .97870E-07	.49200E .12300E .12300E .27060E .34440E .49200E .56580E .56580E .56580E .71340E .78720E .86100E .93480E .10820E .11560E .12300E .04000E	01 067777777777777778333301 06	. 6000000000000000000000000000000000000	22222222222222222222222222222222222222	> > > > > > > > > > > > > > > > > > >	999999999999999999999999999999999999999	297 2977 2977 2977 2977 2977 2977 2977
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JUCODE 00 JUCODE=04 75&00E 06 14760E 07 22140E 07 22140E 07 249520E 07 36900E 07 36900E 07 36900E 07 36420E 07 73660E 07 35560E 07 35560E 07 35560E 07 35560E 07 10330E 08 11070E 08 11070E 08 11810E 08 12360E 00 3260E 00 1000E=04 37800E 06 13560E 07	21100000000000000000000000000000000000	.24600E .24600E .7220E .24609E .31980E .39360E .46740E .54120E .61500E .66580E .76260E .83640E .91020E .98400E .10580E .10580E .12050E .12050E .32600E .32600E .32600E	0 06590000503000000000 J0680000 J06777777777777777768800 6777	.20753E-47 1 .96010E-97 .22320E-36 .22810E-46 .19190E-46 .14669E-36 .11090E-46 .81770E-07 .60722E-07 .60722E-07 .29420E-67 .24883E-07 .24883E-07 .24883E-07 .16640E-67 .16640E-67 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .16640E-07 .20570E-06 .19670E-66	.49200E .12300E .12680E .27060E .34440E .44220E .56580E .56580E .71340E .76720E .86100E .10820E .10820E .12300E .04000E .65200E .16300E .26080E	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	. 600000000 52 .160000000 .213302-06 .213302-06 .177405-06 .137205-06 .1%205-06 .1%205-07 .3%5905-07 .277105-07 .237205-07 .152505-07 .152505-07 .03%005-06 .2%7905-66 .2%7905-66	22222222222222222222222222222222222222	> > > > > > > > > > > > > > > > > > >	99999999999999999999999999999999	297712 29772 297732 297732 297732 297732 297732 297732 297732 297732 297732 299732 299732 299732 299732 29980 29980 29980 29980 29980 29992 29992 29993 299945
JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-07 JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-04 JUCODE-04	21100000000000000000000000000000000000	.24600E .24600E .584C0E .17220E .24609E .39360E .4674GE .54120E .54120E .61500E .648893E .76260E .98400E .10530E .10530E .10530E .1205CE .00500E .32600E .32600E .32600E .22820E	0 01.390000503090000000000000000000000000000	.20753E-47 1 .9601UE-97 .2232uE-26 .22810E-06 .1919UE-06 .14609E-76 .61770E-07 .60722E-07 .60722E-07 .60722E-07 .24880E-07 .24880E-07 .24880E-07 .1792UE-07 .19560E-07 .1557UE-07 .00000E-00 1 .9787uE-07 .20570E-06 .1967UE-06	.49200E .12300E .12300E .19680E .27060E .34440E .49200E .56580E .56580E .56580E .71340E .71340E .71340E .70720E .16020E .10820E .12300E .04000E .65200E .16300E .26080E	01000000000000000000000000000000000000	. 6000000000000000000000000000000000000	22222222222222222222222222222222222222	> > > > > > > > > > > > > > > > > > >	999999999999999999999999999999999	29771229734 297732297734 297732297734 297732297734 2997734 299734 2997334 299757789861229989 29977789861229988 2998612299889 2998612299889 2998612299889 29998612299889 299992299992 299992299993 299993 299993 299993 299993 299993
JUCODE 00 JUCODE 04 73600E 07 14760E 07 22140E 07 22520E 07 36900E 07 44280E 07 51660E 07 51660E 07 51660E 07 50420E 07 1030E 08 11810E 08 12360E 00 JUCODE 04 12360E 06 13560E 07 29340E 07	21100000000000000000000000000000000000	.24600E .24600E .98400E .17220E .34600E .31980E .39360E .4674GE .54120E .68880E .76260E .83640E .91020E .10580E .11320E .12050E .12050E .12050E .12050E .32600E .32600E .32600E	0 010000000000000000000000000000000000	.20753E-47 1 .9601UE-97 .2232uE-26 .22810E-06 .14669E-26 .14090E-46 .11090E-46 .11090E-46 .81770E-07 .60722E-07 .60722E-07 .24880E-07 .24880E-07 .24880E-07 .1770E-07 .15570E-07 .10000E 00 1 .97870E-07 .20570E-66 .19070E-66 .14600E-96	.49200E .12300E .12300E .19680E .27060E .34440E .41820E .56580E .56580E .71340E .71340E .71340E .10090E .1090E .1090E .11560E .12300E .04000E	0 1 0 0 0 0 0 0 0 0 0 0 0 0 0	. 6000000000000000000000000000000000000	22222222222222222222222222222222222222	> > > > > > > > > > > > > > > > > > >	999999999999999999999999999999999999999	2977229734 2977229734 29773229734 297732297734 297772297734 29977789 29977789 299801229984 299845239845 29984529984 29984679992 2999229992 299934 29995 29995
JUCODE 00 JUCODE=04 75&00E 07 14760E 07 22140E 07 22140E 07 29520E 07 36900E 07 36900E 07 36900E 07 36420E 07 73660E 07 35560E 07 35560E 07 35560E 07 10330E 08 11670E 08 11670E 08 11810E 08 12360E 00 JUCODE=04 37800E 06 13560E 07 397800E 06 13560E 07 397800E 06 13560E 07 397800E 06 13560E 07 397800E 06 13560E 07 39120E 07	21100000000000000000000000000000000000	.24600E .24600E .7220E .24609E .31980E .39360E .46740E .54120E .61500E .66500E .83640E .91020E .98400E .10580E .10580E .10580E .10580E .10580E .12050E .32600E .32600E .32600E .32600E .32600E	0 01.39003503000000000 J00030000300000000000000	.20753E-47 1 .9601UE-97 .2232uE-36 .22810E-46 .1919UE-66 .14609E-36 .81770E-07 .60722E-07 .60722E-07 .60722E-07 .24883E-07 .24883E-07 .24883E-07 .24883E-07 .26570E-07 .00000E 00 1 .97874E-07 .26570E-06 .19670E-66 .19670E-66 .10370E-06	.49200E .12300E .12300E .19680E .27060E .34440E .49200E .56580E .56580E .71340E .70720E .86100E .93480E .10820E .10820E .12300E .04000E .65200E .65200E .65200E .65200E .35860E .45640E	0 0 0 0 0 0 0 0 0 0 0 0 0 0	.60000000 52 .16000000 .213302-06 .213302-06 .177405-06 .137205-06 .157205-07 .359205-07 .359205-07 .237206-07 .237206-07 .199605-07 .199605-07 .162605-07 .152505-07 .035000000 52 .157905-06 .176705-06 .131005-06 .131005-06	22222222222222222222222222222222222222	> > > > > > > > > > > > > > > > > > >	999999999999999999999999999999999999999	29771229774 29771229774 299774 299774 299774 2997769 299776 29979801229978 299801229988 2998856799 299980122998856799 299992 299994 299992 299994 29997 29997
JUCODE 00 JUCODE 04 73600E 07 14760E 07 249520E 07 249520E 07 36900E 07 36900E 07 36420E 07 590420E 07 30420E 07 30420E 07 304500E 07 305940E 07 11810E 08 12360E 03 JUCODE=04 97800E 06 19560E 07 29340E 07 39120E	.211000000 .200000000000 .200500000000 .20050000000 .20050000000 .2050000000 .2050000000 .2050000000 .2050000000 .20200000000 .20000000000 .20000000000	.24600E .24600E .584C0E .17220E .24600E .39360E .4674GE .54120E .61500E .61500E .68880E .76260E .98400E .10500E .10500E .10500E .12050E .12050E .12050E .32600E .32600E .32600E .32600E .32600E .32600E .32600E .32600E .32600E .32600E .32600E .32600E .32600E	0 0409000000000000000000000000000000000	.20753E-47 1 .9601UE-97 .2232uE-26 .22810E-06 .1919UE-66 .1919UE-66 .11090E-46 .61770E-07 .60722E-07 .60722E-07 .24883E-07 .24883E-07 .24883E-07 .24883E-07 .24883E-07 .24883E-07 .24883E-07 .24883E-07 .24883E-07 .24883E-07 .24883E-07 .2570E-07 .15570E-07 .00000E 00 1 .97870E-07 .26570E-66 .14600E-96 .14600E-96 .10370E-07 .7090E-07	.49200E .12300E .12300E .27060E .34440E .49200E .56580E .56580E .56580E .71340E .71340E .71340E .71340E .71340E .1090E .10820E .10820E .10820E .12300E .04000E .65200E .16300E .26080E .35860E .456420E	0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 6000000000000000000000000000000000000	22222222222222222222222222222222222222	> > > > > > > > > > > > > > > > > > >	999999999999999999999999999999999999999	29772 29772 29773 29773 29773 29773 299773 299773 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 299777 29980 12299777 29980 299877 29980 29980 29980 29980 29980 299979 299977 299977 299977 29980 29980 29980 29980 29997 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 299977 2999777 299977 299977 299977 299977 299977 299977 2999777 2999777 299977 299977 299977 2999777 2999777 2999777 299977777 299977777777
JUCODE 00 JUCODE 04 75600E 07 14760E 07 22140E 07 22520E 07 36900E 07 36900E 07 36900E 07 36420E 07 36420E 07 36500E 07 10300E 08 11810E 08 12360E 08 12360E 08 12360E 06 13560E 07 3940E 07	.21100000000000000000000000000000000000	.24600E .24600E .98400E .17220E .346090E .39360E .46740E .54120E .61500E .83640E .91020E .10500E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E .12050E	0 04390000000000000000000000000000000000	.20753E-47 1 .9601UE-97 .2232uE-36 .22810E-46 .12919UE-66 .14069E-26 .11090E-46 .81770E-37 .60722E-07 .60722E-07 .60732E-07 .24884E-07 .24884E-07 .24884E-07 .24884E-07 .19560E-07 .15574E-07 .15574E-07 .00000E 00 1 .97874E-07 .26570E-66 .14600E-96 .14600E-96 .7179UE-07 .49956-67	.49200E .12300E .12300E .19680E .27060E .34440E .41820E .56580E .63960E .71340E .71340E .71340E .10090E .1090E .1090E .11560E .12300E .04000E .65200E .16300E .55860E .45640E .55860E .65200F	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 600000000 52 .16000000 .218302-06 .218302-06 .177405-06 .177405-06 .157205-06 .157205-07 .57205-07 .277105-07 .277105-07 .277105-07 .167605-07 .162505-07 .025005-07 .025005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .055005-07 .05	22222222222222222222222222222222222222	> > > > > > > > > > > > > > > > > > >	999999999999999999999999999999999999999	29772297722977229772297722977229772297
JUCODE 00 JUCODE=04 75&00E 07 14760E 07 22140E 07 22140E 07 29520E 07 36900E 07 36900E 07 36900E 07 36420E 07 73660E 07 35560E 07 10330E 08 11670E 08 11810E 08 12360E 00 12360E 00 12360E 00 12360E 00 12360E 07 397800E 06 13560E 07 39120E 07 39120E 07 39120E 07 39120E 07 39120E 07 39120E 07	21100000000000000000000000000000000000	.24600E .24600E .7220E .24609E .31980E .39360E .46740E .54120E .61500E .66580E .76260E .83640E .91020E .98400E .10580E .10580E .10580E .10580E .10580E .22820E .32600E .32600E .32600E .32600E .32600E .32600E .32600E .32600E .32600E	0 010000000000000000000000000000000000	.20753E-47 1 .96010E-97 .22320E-36 .22810E-46 .19190E-36 .11090E-37 .60723E-07 .60723E-07 .60723E-07 .24883E-07 .24883E-07 .24883E-07 .24883E-07 .24883E-07 .2640E-67 .17920E-07 .16640E-07 .26570E-06 .19370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-06 .10370E-07 .49950E-07 .49950E-07	.49200E .12300E .12680E .27060E .34440E .49200E .56580E .56580E .71340E .70720E .86100E .93480E .10090E .10820E .10820E .12300E .26080E .35860E .55420E .65200E	0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 6000000000000000000000000000000000000	22222222222222222222222222222222222222	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	999999999999999999999999999999999999999	29771229734 29771229734 2977329774 297752977789 29977789801229988 299885299889 299885299889 29999229999 29999229993 29999229993 29995229995 29995229995 29995229995
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.10240E 07	29290E-L7	81500E 37	267 JE-07	.84764E 07	,24550E-07	28 5 91	3001
.30920E 07	226/0E-L7	91280E 97	21050E-07	94540E 07	19650F-07	28 5 91	3002
.97660E 07	.10440E+17	.161165 58	.17390E-07	.19430E 08	.16470E=87	28 5 91	3003
-1-760E 05	.15676E+67	.110mbr 68	.1495úE+ú7	.11410E 08	14310E-07	28 5 91	3004
.11740E 05	147466-67	120000 UB	.13226E+P7	12390E 08	12750E=07	28 5 91	3005
111106 64	103006-17	130265 68	1101 15-17	133705 00	115405-07	28 5 91	3006
+12/19E 00	120200-07	133402 30	106545-07	1133/UE UO	105700-07	20 5 01	3607
1309UE UM	-111066-07	195200 20	.100005-07	1939UE 00	410230F=01	20 2 71	. 3007 Toog
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1.19206+06	0.	1.35502+06	1,50775-02	1.4000E+06	9.1260E-02	2813 3	3022
1,4500E+06	1.45136-01	1.4790E+30	1.59555-01	1.5000E+06	3.2600E-01	2813 3	3023
1.05006+06	2.80966-01	1.690GE+06	3.0350E-01	1.0500E+06	4.1470E-01	2813 3	3024
1.7600E+06	3.7766E=01	1.75-06+26	4.34505-01	1.8000E+06	4.90405-01	2813 3	3025
1.05006+00	4.21566-61	1.900GE+16	4.57268-01	2.00005+06	5.99006-01	2813 3	3026
2 19505+04	6 00466ar1	2. 2mail Fairs	6.1140E-01	2.2500E+06	6.38375-01	2813 3	3027
2 1920E+05			0 164/1 04		8 73465 04	2010 3	3000
2.324VE4US	1.10146-01	2.4 00 UE +00	0,19396-91	2.3003E+00	0./9026401	2013 3	3920
2.24005+00	A*552AF+P1	2.00000000000	9,7400L-01	2.07000000	1.01125+80	2013 3	3024
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3.00000+06	1.34000+01	3.011.1E+00	1.5297E+JP	3.1190E+96	1,73586+00	2813 3	3051
3.2000E+06	1,6376E+68	.≤ <b>.2</b> 530€+36	1,6569E+uU	3.32502+06	1.6718E+00	2813 3	3032
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3. +499E+65	2.15195+61	4.004000+00	2.1519E+14	6. G000E+06	3.45002+00	2813 3	3035
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9 2.)*80E+00 3.%CCE+06 1.1720E+06 1.1720E+06 2.9CCE+06 2.9CCE+06 1.16%0E+06 1.16%0E+06	0. 1.33((±=52 1.7400==02 0. 2. 4.000(L=02 0. 2. 2. 3. 4.000(L=02 0. 2. 2. 3. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 4.000(L=02 2. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5	2.6000E+06 J.200E+66 J.9999F+66 1.5000E+66 J.9796E+06	1.5990E-02 2 4.9000E-02 1.5790E-92 1.5793E-02 2 3.0000E-02 3.7000E-02 2	4.0000E+06 1 2.6000E+06 3.4400E+06 4.0000E+06 1 2.0000E+06 3.9999E+06	0. 9 9.9400F-03 1.5990E-02 9. 7 3.9400E-02 2.9900E-02 4	2613 2613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26613 26615 26615 26615 26615 26615 26615 26615 26615 26615 26615 26615 26	55333333333333333333333333333333333333	3697 30999 31099 31023 3109 3109 3109 3109 3109 3109 3109 310
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9 2.)*80E+00 3.)(C0E+06 1.1720E+06 1.1720E+06 2.)C(0E+06 2.)C(0E+06 1.1690E+06 1.1690E+06 4.)C(0E+06 1.0650E+06 1.0650E+06 1.0650E+06	0. 1.33((±=52 1.7400±=03 0. 2. 4.000(L=02 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	2.60002+06 J.2000E+06 J.9999F+06 1.5000E+06 J.7500E+06 J.7500E+06	1.5990E-02 2 4.9000E-03 1.5790E-02 1.5793E-02 2 3.0000E-02 3.7003E-02 2 4.1503E-02 2 2.5900E-02	4.00000E+06 1 2.6000E+06 3.4400E+06 4.0000E+06 1 2.0000E+06 3.9999E+06 1 3.99999E+06 1 2.8000E+06	0. 9 9.9400F-03 1.5990E-02 7 3.9700E-02 2.9900E-02 4 1.4350F-01 9 5.9000E-02	228 26 26 26 26 26 26 26 26 26 26 26 26 26	555555555555555555555555555555555555555	36991123 310991123 31000 31100 31100 311123 311123 31134
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1.72006+06	2+2276E-07	2.0300F+r0	1,24975-37	2.5000E+06	1.21348-07	2815 3	5196
3.1002+06	6.75052-00	3.5000E+66	4,727JE-08	4.0000E+05	2.5706E-0E	2815 3	5197
4.20006-00	2.24586-08	5.0G00E+36	2,3364E-L8	5.5000E+06	1,32556+08	2815 3	3198
6UU0E+06	5+0400E-08	6.5000E+06	1.34936-08	7.0000E+06	5.5238E+09	2615 3	3199
7., 20006+00	6,7910=-09	c.0009E+u6	6,42948-19	8.5000E+06	6,24846-09	2815 3	3200
9.0006+06	1.17726-09	9,5000E+L6	7,2443E-10	1,0000E+07	0.	2815 3	3201
						2615 0	3202
2, 000000404	5,61856+01			1		2815102	3203
ΰ.		e	1	1	2	2815102	3204
2	2					2815102	3205
1. "000E=05	1.00002+00	2.00006+07	1.00008+00			2615102	3206
		••••••	•••••	1	2	2615102	3207
2	2			•	-	2815102	3265
J. •	1.00096-05	í.		1	36	2815102	3209
36	1	•		•		2815102	3210
2.50005+05	5. 01026-07	4638F+85	a	7.50008+05	1.34595-67	2815102	3241
1	A 10005-00	1 25105406	3 90 / 45-06	1 50006405	1 06105-00	2016102	3212
1 26005+04	A 34346-06	2 444405+44	A 19106-08	2 25005+06	4 10375-08	2616102	7243
2	C,30C-E-00	2.00902+00	7 410120400 6 67402-00	2.27000000	3 79755-06	2619102	3210
2.5000E+00	2,2/405400	2.73305+00	3.37405403	3.000000000	4 05405.08	2816102	7046
A 0006405	1 47267 -00	4 25006406	4 47045-44	3,7900E+05	2 50076 00	2010102	3044
4.JU00E+06	1101000-00	4.23902+00	1.0/675-05		C. STARC 00	2019102	3210
4./9002-05	4,40006400	3.0890E+10	2.20032-00	2.22000-00	2,2/40E-UE	2012102	321/
2.20005400	2.70/22-00	3./38UE+00	1,00328-07	0.000000000	0,90042400	2019102	2218
0.30006400	2.908/E=99	0.5JUUE+10	0,90045-60	0./5UUE+UO	3.1/205-07	2017102	3217
7.00002406	U	7.2500E+80	3,7/48E-09	7.50002+00	1,77596-07	2017102	3220
/./DUL+US	2,2507E-07	0.0000E+00	Y.#//2E-64	8.25UUE+U0	2.2/40E+UY	2017102	3221
3.20005+05	4,/388E=0/	0.1590E+30	1.00/05-00	9.0000E+0c	U.	2815102	3222
J.	2,0000E+07	0		1	36	2815102	3223
36	1		-			2815102	5224
2.5000E+05	5.90926-07	>+0009E+05	0.	7.5000E+05	1.3459E-07	2015102	3225
1	4,1012E-06	1.2500E+66	3.9024E-0-	1.5000E+06	1.90125-08	2815102	\$226
1,7500E+06	8,3624E+ija	2.0J00E+06	4.1012E-08	2,2500E+06	1.3937E=08	2815102	3227
2.5000E+05	5.57482-08	2.7500E+06	5.574iE-uf	3.0000E+06	2.74755-08	2815102	3228
3.2500E+06	2.5087E-00	3.500000406	2.7275E-06	3.7500E+06	1.9512E-08	2815102	3229
4.0000E+00	1.6725E-0å	4.2500E+u6	1.67258-08	4.50002+06	2.5087E-08	2815102	3230
4,7500E+06	4.4600E-00	<b>&gt;.00005+06</b>	2.23L0E-05	5.2500E+06	5.5748E-08	2815102	3231
5.5000E+06	2.78758-08	5,73906+06	1.0035E-07	6.0000E+06	6,9684E-08	2815102	3232
6.25096+96	2,5087E-J8	6,5009E+06	6.96842-08	6.7500E+06	3,1220E-07	2015102	3233
7.00006+05	Û.	7.25008+06	5,5748E-09	7.50006+06	1.59898-07	2815102	3234
7.7500E+06	2.285/6-07	8.0000E+06	9,47728-08	8,2500E+06	5,5748E-09	2815102	3235
8.5000E+06	4.7588E=07	8,7500E+06	1.0676E-06	9.0000E+06	0	2815102	3236
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.12410E 06 .00000E UU	.130905 05	,40000E-02	.13200E 08	13000E-01	20	3 10	3649
.14000E 08 .23200E-01	,1450VE UB	.310006-01	.1900UE 03	.380032+01	60	3 10	3275
.15500E 08 .425JUE-01	.1000000 00	,4000000-01	10700E 08	44400E+81	20	3 10	3271
,1/00UE U8 ,5150UE=91	1/209E UC	,740005-01	100JUE US	436000 44	20	3 10	3676
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7 2105302-40-0117722-90	ň		<u>,</u>	,	28	3 26	3256
A3190E 07 .03000E 00	.106008 68	.16030E 09	.12300F 08	.284006 06	28	3 28	3256
14500E 08 .55000E 00	.166096 68	.68006E 6a	.18000E 08	.8000GE 00	28	3 28	3266
.200006 08 .880006 00	.11500E 68	.16400E-01	.12000E 08	.21000E-01	28	3 28	3261
.00000E 60 .00000£ 00			,		28	3 0	3262
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85 2					28	3103	3265
.10000E 01 .00000E 00	.10000E 06	,26000E=05	,65000E 05	.2800PE-05	28	3103	3266
.67000E 06 .12000E-04	.68000E 96	,23000E-04	.690COE 05	<b>,3400UE=04</b>	56	3103	3267
.70000E 06 .44600E-04	,73069E U6	.81003E-C4	,75000E 05	.11006E-03	28	3103	<b>\$</b> 266
.04000E 06 .19000E-03	.85000E 06	.30000E=03	.90000E 06	.46000E=03	28	3103	3269
.95000E 06 .630002-05	1C:66E 07	.1000dE-02	,10400E 07	-15000E=02	28	3193	3270
.11000E 07 .2>000E-02	.114JUE J7	,33006E-02	,12000E 07	.42909E+02	28	3103	3271
.12000E 07 .50000E-02	.13000E 67	-55000E-02	.13400E 07	•07000E+02	20	3103	3272
-130JUE 97 -75000E-92	14000E 07	.YUUUUE+62	,15000E 07	.1250VE+81	20	3103	32/3
10000E 07 1000E-01	-1/600E 0/	.20000E-01	,10000E 07	•20000E=01	20	3103	3275
219305 07 63000-01	230000 07	.370002-01	240005 07	.000002401	28	3163	3276
25000E 07 10000E 00	-260000E 07	.11500E-01	27000E 07	13700F 60	28	3103	3277
	.29000F n7	.17500E 00	29400F 07	19300E 00	28	3103	3278
29600E 57 19800E 00	29866E 07	19808E 68	30000E 07	193005 00	28	31.03	3279
.384085 97 .193806 08	.30500E 07	.18100E 60	.31200E 07	163005 00	28	3163	3280
.32000E 07 .21500E 1J	.3260GE 07	.23100E 00	.32800E 07	.23000E 00	28	3103	3261
.33200E 07 .22300E 00	.33400E 07	.22100E 00	.34000E 07	.24000E 00	28	3103	3262
.35000E 07 .27300E 00	.3600DE 07	.30000E 00	.37000E 07	.3170CE 00	28	3102	3283
.36000E 07 .33000E 20	.39000E 07	.34500E 00	.40000E 07	.35000E 00	28	3103	3284
.41000E 07 .36300E UJ	42600E 97	3650UE 00	43000E 07	40000E CO	28	3103	3285
.44000E 07 .41000E 00	.47000E 07	,41000E 00	46000E 07	42500E 00	28	3103	3286
.50000E 07 .45700E 90	.53000E 97	.50000E 00	54000E 07	52000E 00	28	3103	3267
.50000E 07 .56000E 00	.590COE 07	.57000E CO	.61000E 07	,58500E 00	28	3103	328ê
.63000E 07 .60000E 00	.64002E 07	,61000E 00	.66000E 07	.62000E 00	28	3103	3289
.70000E 07 .63000E J0	.75000E 07	.63500E 00	.85000E 07	.63500E 00	28	3103	3290
.95000E U7 .63000E 00	.10500E 08	,61500E 00	.11500E 08	,58000E 00	28	3103	3291
.12250E DA .53000E 00	.13000E 00	.45000E 00	,13500E 08	,39500E 00	28	3103	3292
.14000E 08 .33700E JD	.150905 88	.24800E 00	,16000E 08	1880GE 00	28	3103	3293
.17000E 08 .16800E JO	.1860üt 06	15700E 00	.19000E 08	.15200E CO	28	3103	3294
.20000E 08 .15000E 00	.93600F 90	.000000E CG	.00000E 00	•nandae 00	28	3103	3295
.UUUUUE UO .00000E 00	•		-	-	28	3 C	3296
2,00000+ 4 5.80000+ 1	Ő.	<b>99</b>	0	0	20	3104	3297
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9 2 .10000E 01 .00000E 00 .600000E 07 .10000E-02 .80000E 07 .12000E-01 .10000E 01 .30000E-01 .12000E 08 . <b>550</b> 00E-01 .14000E 06 .75000E-01	28 28 28	3107 3107 3107	3360 3361 3362
,15000E 03 ,80000E-91 ,15000E 65 ,70000E-81 ,20000E 08 ,60000E-91 ,10000E 00 ,0000JE 93	28 26 28	3107 3 ( 6 (	3363 3364 3365
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Fig. 1

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θ,deg.



Fig. 5





Fig. 6





Fig. 8









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Fig. 15


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Fig. 17







Fig. 20





Fig. 22



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Fig. 26







28Ni⁵⁸



Fig. 29