THEORETICAL ELECTRON-ATOM ELASTIC SCATTERING CROSS SECTIONS Selected Elements, 1 keV to 256 keV*

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Calculated differential elastic electron scattering cross sections for 24 selected elements are presented in tabular form in the energy range 1 to 256 keV at values of 2^n keV. The total elastic and momentum-transfer cross sections are tabulated also. Parameters for 12-parameter analytic fits to the differential values are given for 80 elements in a second table. The calculations were done in the relativistic static approximation with relativistic atomic wavefunctions for the heavier elements (Z > 35).

^{*}This work was supported by the U.S. Energy Research and Development Administration (ERDA)

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	et Elem	_	250 K	•							
	He		Si	Ni	Ag	Au					
	Be	F	Ar	Cu		Hg					
	C	Ne	Ti	Kr	Xe	Рb					
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INTRODUCTION

Previous tabulations of elastic electron-atom scattering cross sections exist in the 100- to 1500-eV range¹ and at 10, 40, 70, and 100 keV.2 For application to problems involving relativistic electron transport, we have calculated these cross sections for all the elements in the range 1 to 256 keV by multiples of 2 in energy. Part of these data is presented here for some of the more useful elements. In addition to the differential cross sections, $\sigma(\theta)$, and the total elastic and momentum-transfer (that is, transport) cross sections, we have obtained good twelve-parameter fits to $\sigma(\theta)$. The functional forms chosen for the fits are useful in rapid generation of the collision integrals required by Monte Carlo electrontransport theory.3 Since the primary use of the data will probably relate to transport and deposition studies, we do not report the spin-polarization fractions. However, this information can be obtained from the authors.

The static-approximation theory which we use has been discussed adequately by previous workers. 1,4 Only a cursory description is given here. The partial-wave expanded Dirac equation is solved for the motion of the scattering electron in the central static potential field of the atom. The potentials are computed from spherically averaged atomic charge densities by solving the Poisson equation. The static approximation may be derived by a series of approximations to the equations describing the total electron-plus-atom system. 1,4 General discussion of high-energy, electron-atom scattering is contained in Walker's review article. Electron-exchange and polarization-response corrections have not been incorporated into our data. Exchange is quite

negligible above 1 keV, and atomic polarization corrections only modify the very small-angle part of $\sigma(\theta)$. No simple, consistent, general theory is known for handling polarization effects.

The overall accuracy of the static theory for highenergy electron scattering is hard to assess. At 500 eV the precise measurements of Bromberg⁵ of electron-Hg elastic scattering indicate that the static theory is in error due to charge-induced atomic polarization at angles less than 5°. This effect produces errors of 16% and 2% in the total elastic and momentum-transfer cross sections, respectively.6 From 5° to 30°, the static theory is quite accurate through the region of decrease of $\sigma(\theta)$ by two orders of magnitude. At angles greater than 30° or so, the static theory is about a factor of 1.4 too large. 5,6 Much the same inaccuracies occur for the lighter systems N₂ and CO at 500 eV, as checked against Bromberg's experiments.⁷ For these systems the static-theory, independent-atom model of the electron-molecule scattering misses a large part of $\sigma(\theta)$ for angles less than 5° and tends to overestimate the value of $\sigma(\theta)$ for angles greater than 20° by a constant factor of about 1.2 (Ref. 6). The tendency of the static theory to overestimate the large-angle $\sigma(\theta)$ by a constant factor is undoubtedly related to dispersive effects on the scattered electron. These errors should decrease at higher energy.

In Fig. 1 we compare our calculated differential cross sections to the absolute small-angle measurements of Fink and Kessler⁸ and the Born approximation results of Ibers and Vainshtein⁹ for the Xe atom at 37, 60, and 100 keV. The overall agreement is excellent, considering that the measurements contain relative errors on the order of 10%, especially at very small angles.⁸

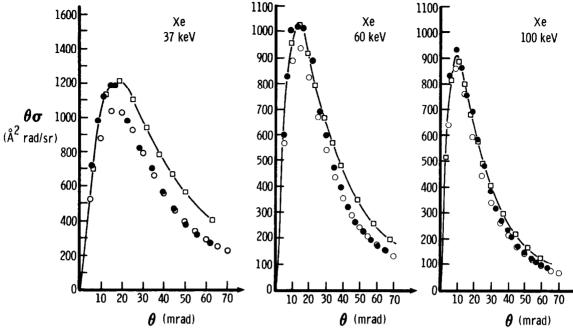


Fig. 1. Electron-xenon elastic cross sections at 37, 60, and 100 keV. The $\sigma(\theta)\theta$ is plotted versus angle.

Our static theory

Born approximation (Ref. 9)

Absolute measurements (Ref. 8)

Description of the Calculations

The static potentials and their first and second derivatives with respect to the radial coordinate were computed from Hartree-Fock atomic wavefunctions. For atomic numbers Z less than 36, nonrelativistic wavefunctions were used. To For Z greater than 35, the new relativistic wavefunctions of Mann and Waber¹¹ were used. These wavefunctions represent improvements upon the ones used in previous tabulations¹ and result in slight differences between these cross sections and the previous tabulations in the region of overlap.

The computation of each cross section proceeds as follows (a more complete description is given elsewhere⁶). For a given atom, the static potential and its derivatives are fitted by cubic spline on the available grid in the radial coordinate R. The potentials are extended to infinity by fitting to an exponential at large R. For each energy, the program uses a combination of numerical and theoretical approximations based on a single error-control input parameter ε generally between 10^{-3} and 10^{-4} in these calculations. When one works from partial-wavenumber l = 0 upwards, the Dirac equations are integrated with an automatic error control integrator,12 with the relative error set at $\varepsilon(\ell+1/2)^{-1}(Ka_0)^{-1}$ where K is the scattering electron's wavenumber. The numerical integration begins and ends at theoretically determined points (which are functions of ε) such that the absolute error introduced into the phase shifts should be less than $\varepsilon(l+1/2)^{-1}$. In

addition, for each ℓ , the Langer-JWKB¹³ phases are evaluated from the second-order differential equation obtained by combining the two coupled Dirac equations; this necessitated the computation of the derivatives of the static potential. For sufficiently large ℓ , the numerical-integration phases and the Langer-JWKB phases agree to an absolute accuracy $\varepsilon(\ell+1/2)^{-1}$; the numerical integration is discontinued for larger l. The program determines the largest *l* needed by finding the ℓ such that the phase shifts are less than $\epsilon(\ell+1/2)^{-1}$ in magnitude. The total design of the computation is to generate all phase shifts to an absolute accuracy $\varepsilon(\ell+1/2)^{-1}$, which equalizes the distribution of errors throughout the terms of the amplitude summations. Not all phases are computed directly; the calculations here use a maximum of 200 distinct \(\ell\)-values on a grid in l whose spacing increases with l. The intermediate phases are interpolated by cubic spline from the absolute phase shifts computed on the grid. The scattering amplitudes were calculated by direct summation of the partial-wave series.

With the introduction of the error-control parameter ε into all aspects of the computation, it was easy to check a given computation by varying ε . Based on trial, we estimate that the $\sigma(\theta)$ tabulated here are better than 1% accurate computationally except for the large-angle, higher-energy scattering from light elements where $\sigma(\theta)$ might contain 10% relative error. In some cases $\sigma(\theta)$ decreases by 10 orders of magnitude from forward to backward angles. The total elastic and momentum-

transfer cross sections are accurate to three digits (in terms of the static approximation, of course).

Description of Analytical Fits

For each element at each energy the differential cross section was fitted to the form:

$$\sigma^*(\theta) = \sum_{m=1}^4 A_m (1 - \cos \theta + 2B)^{-m} + \sum_{n=0}^6 C_n P_n(\cos \theta). \quad (1)$$

The coefficients A_m and C_n are in units of Å²/sr, B is an effective "screening parameter," and the P_n are Legendre polynomials. The first sum on the right was designed to fit the sharp peak at small angles, while the second sum was designed to describe the moderate and large-angle tail. The choice of this form was largely dictated by the need in transport calculations to generate, rapidly and analytically, the "scattering functions"

$$\kappa_{l} \equiv 2\pi \int_{0}^{\pi} \sigma(\theta) [1 - P_{l}(\cos \theta)] \sin \theta \, d\theta. \tag{2}$$

The chosen form allows these to be generated by simple recursion relations.

The numerical procedure used was a simple search routine to minimize a function of the form

$$\chi^2 = \sum_{i} (F_i - S_i)^2 W_i$$
 (3)

in which the S_i are a set of quantities calculated by our theory, F_i are the fits to these quantities considered as functions of the twelve parameters, and the W_i are artfully chosen positive weights. In our case the S_i included the differential cross sections evaluated at the 33 angles listed in TABLE I, plus the total cross section and the transport cross section κ_1 . Since this procedure searches out a local minimum in parameter space rather than an absolute minimum and since the parameter space is neither orthogonal nor linear, the parameters are sometimes erratic and interpolation between tabular values is not always warranted. Of course, one may always interpolate between values of σ or κ_1 .

For light elements the sum of Legendre polynomials could have been truncated at n < 6, while for heavy elements and low energies it should have been extended to n > 6 to describe the complex diffraction pattern at large angles. In the latter region, therefore, the fit to the tabular data is poor. Our particular interest, however, was in the κ_l . In every case the root-mean-square deviation between calculated and fitted values of the first twenty κ_l is less than 1%. Figure 2 demon-

strates the quality of agreement between the calculated differential cross section and the analytical fit for a "good" case (Kr at 16 keV) and a "bad" case (U at 1 keV). Note that TABLE II lists two root-mean-square deviation values for each set of parameters. These are D_1 and D_2 , where

$$D_1^2 \equiv \sum_{i=1}^{33} \left[1 - \sigma * (\theta_i) / \sigma(\theta_i) \right]^2 \div 33$$
 (4)

$$D_2^2 \equiv \sum_{l=1}^{19} \left[1 - \kappa_l^* / \kappa_l \right]^2 \div 19$$

in which θ_i are the 33 angles listed in TABLE I, σ^* and κ_l^* are determined from the analytical fit, and σ and κ_l are calculated values.

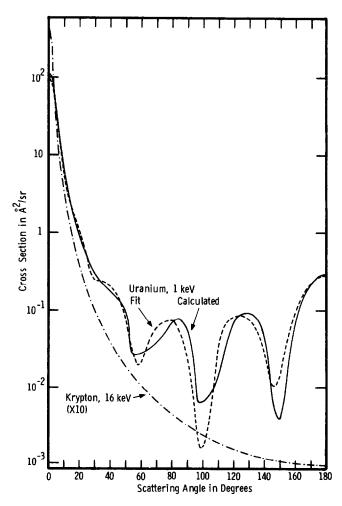


Fig. 2. Sample comparisons of analytical fits to calculated cross sections. When the cross section varies smoothly (Kr at 16 keV), the fit deviates less than the width of the line drawn. The complex diffraction patterns from heavy elements at low energies are poorly fit (U at 1 keV); however, the integrated quantities κ_1 are still good to about 1%

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EXPLANATION OF TABLES

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

Cross sections are listed in units of Å^2/sr (differential) and in Å^2 (total and transport) Å^2 = 10^{-16} cm²

HELIUM, Z = 2, etc. Target element

ANGLE Scattering angle in degrees

1 KEV, 2 KEV, etc. Energy of incident electron in the laboratory system

1.75E-01, etc. 1.75×10^{-1} , etc.

TOTAL Total elastic scattering cross section in units of Å² (10⁻¹⁶ cm²)

TRANS Transport cross section κ_1 , Eq. (2), in units of Å²

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

HYDROGEN, Z = 1, etc. Target element

1 KEV, 2 KEV, etc. Energy of incident electron in laboratory system

 A_1, \ldots, A_4 Parameters defined in Eq. (1) in units of $Å^2$

 C_0, \ldots, C_6

B Dimensionless parameter defined in Eq. (1)

D1, D2 Dimensionless root-mean-square deviations defined in Eq. (4)

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

ANGLE	1KEV	2KEV	4KEV	HELIUM 8KEV		72454	CLYEN	436051	256858
0.0	1.75E-01	1.76E-01	1.77E-01	1.80E-01	16KEV 1.86E-01	32KEV 1.97E-01	64KEV 2.21E-01	128KEV 2.73E-01	256KEV 3.94E-01
0.5	1.75E-01	1.75E-01	1.76E-01	1.78E-01	1.80E-01	1.86E-01	1.96E-01	2.13E-01	2.33E-01
1.0	1.74E-01	1.73E-01	1.72E-01	1.70E-01	1.65E-01	1.57E-01	1.41E-01	1.15E-01	7.91E-02
2.0	1.70E-01	1.66E-01	1.58E-01	1.44E-01	1.21E-01	8.82E-02	5.31E-02	2.57E-02	1.02E-02
3.0 4.0	1.64E-01 1.56E-01	1.55E-01 1.41E-01	1.38E-01 1.16E-01	1.12E-01 8.19E-02	7.73E-02 4.68E-02	4.31E-02 2.10E-02	1.90E=02	6.96E-03	2.30E-03
5.0	1.47E-01	1.25E-01	9.39E-02	5.80E-02	2.81E-02	1.07E-02	7.63E-03 3.47E-03	2.44E-03 1.04E-03	7.53E-04 3.12E-04
6.0	1.37E-01	1.10E-01	7.46E-02	4.05E-02	1.71E-02	5.86F-03	1.77E-03	5.11E-04	1.51E-04
7.0	1.26E-01	9.44E-02	5.84E-02	2.83E-02	1.07E-02	3.40E-03	9.80E-04	2.78E-04	8.19E-05
8.0	1.15E-01	8.04E-02	4.54E-02	1.99E-02	6.94E-03	2.08E-03	5.84E-04	1.64E-04	4.81E-05
9.0 10.0	1.04E-01 9.32E-02	6-80E-02 5-71E-02	3.52E-02 2.73E-02	1.42E-02 1.02E-02	4.63E-03 3.18E-03	1.34E-03 8.93E-04	3.68E-04 2.43E-04	1.03E-04	3.00E-05
1000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	J671C-0E	£ 4 7 5 E - 0 E	1.055-05	34105-03	0.735-04	21435-04	6.75E-05	1.97E-05
15.0	5.15E-02	2.35E-02	8.45E-03	2.55E-03	6.96E-04	1.83E-04	4.87E-05	1.34E-05	3.90E-06
20.0	2.76E-02	1.03E-02	3.17E-03	8-69E-04	2.27E-04	5.89E-05	1.55E-05	4.27E-06	1.24E-06
25.0	1.52E-02	4.97E-03	1.41E-03	3.69E-04	9.49E-05	2.44E-05	6.42E-06	1.76E-06	5.08E-07
30.0 35.0	8.80E-03 5.36E-03	2.64E-03 1.52E-03	7.11E-04 3.97E-04	1.83E-04 1.01E-04	4.65E-05 2.55E-05	1.20E-05	3.13E-06	8.54E-07	2.46E-07
40.0	3.43E-03	9.35E-04	2.40E-04	6.05E-05	1.53E-05	6.55E-06 3.90E-06	1.71E-06 1.02E-06	4.65E-07 2.75E-07	1.33E-07 7.85E-08
45.0	2.30E-03	6-07E-04	1.54E-04	3.87E-05	9.728-06	2.48E-06	6.47E-07	1.74E-07	4.94E-08
50.0	1.60E-03	4.13E-04	1.04E-04	2.60E-05	6.53E-06	1.66E-06	4.31E-07	1.16E-07	3.26E-08
60.0	8.50E-04	2.14E-04	5.30E-05	1.32E-05	3.32E-06	8-41E-07	2.16E-07	5.73E-08	1.59E-08
70.0	5.03E-04	1.24E-04	3.07E-05	7.59E-06	1.91E-06	4.82E-07	1.23E-07	3.21E-08	8.70E-09
80.0	3.23E-04	7.91E-05	1.95E-05	4.81E-06	1.20E-06	3.01E-07	7.67E-08	1.96E-08	5-17E-09
90.0	2.23E-04	5.40E-05	1.32E-05	3.29E-06	8.16E-07	2.03E-07	5.13E-08	1.29E-08	3.31E-09
100.0	1.63E-04	3.92E-05	9.60E-06	2.39E-06	5.90E-07	1.47E-07	3.62E-08	9.01E-09	2.26E-09
110-0	1.25E-04	3.00E-05	7.37E-06	1.81E-06	4.49E-07	1.11E-07	2.71E-08	6.62E-09	1.62E-09
120.0	1.00E-04	2.40E-05	5.89E-06	1.44E-06	3.57E-07	8.74E-08	2.14E-08	5-11E-09	1.20E-09
130-0	8.39E-05	2.00E-05	4-88E-06	1.20E-06	2.97E-07	7.25E-08	1.76E-08	4.08E-09	9.23E-10
140.0	7.27E-05	1.73E-05	4.21E-06	1.04E-06	2.55E-07	6.26E-08	1.49E-08	3.44E-09	7.39E-10
150.0 160.0	6.51E-05 6.03E-05	1.55E-05 1.43E-05	3.79E-06 3.51E-06	9.39E-07	2.28E-07	5.52E-08	1.30E-08	2.98E-09	6.26E-10
170.0	5.77E-05	1.36E-05	3.31E-06	8.60E-07 8.06E-07	2.11E-07 2.00E-07	5.06E-08 4.89E-08	1.20E-08 1.16E-08	2.71E-09 2.56E-09	5.65E-10 5.37E-10
180.0	5.69E-05	1.346-05	3.24E-06	7.86E-07	1.98E-07	4.86E-08	1.15E-08	2.46E-09	5.26E-10
TOTAL	4.23E-02	2.12E-02	1.07E-02	5.40E-03	2.76E-03	1.44E-03	7.86E-04	4.58E-84	2.97E-04
TRANS	4.72E-03	1.39E-03	4.01E-04	1.14E-04	3.25E-05	9.24E-06	2.666-06	7.92E-07	2.49E-07
									,
				BERYLL	IUM, Z=4				
ANGLE	1KEV	2KEV	4KE V	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
0.0	8.93E+00	9.18E+00	9.36E+00	8KEV 9.57E+00	16KEV 9.89E+00	1.05E+01	1.18E+01	128KEV 1.46E+01	256KEV 2.10E+01
0.0 0.5	8.93E+00 8.85E+00	9.18E+00 9.02E+00	9.36E+00 9.04E+00	8KEV 9.57E+00 8.92E+00	16KEV 9-89E+00 8-61E+00	1.05E+01 7.98E+00	1.18E+01 6.86E+00	1.46E+01 5.10E+00	2.10E+01 2.98E+00
0.0 0.5 1.0	8.93E+00 8.85E+00 8.62E+00	9.18E+00 9.02E+00 8.56E+00	9.36E+00 9.04E+00 8.16E+00	8KEV 9.57E+00 8.92E+00 7.30E+00	16KEV 9.89E+00 8.61E+00 5.87E+00	1.05E+01 7.98E+00 3.96E+00	1.18E+01 6.86E+00 2.08E+00	1.46E+01 5.10E+00 8.41E-01	2.10E+01 2.98E+00 3.03E-01
0.0 0.5 1.0 2.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00	9.18E+00 9.02E+00 8.56E+00 7.01E+00	9.36E+00 9.04E+00 8.16E+00 5.58E+00	8KEV 9.57E+00 8.92E+00 7.30E+00 3.67E+00	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+00	1.05E+01 7.98E+00 3.96E+00 7.00E-01	1.18E+01 6.86E+00 2.08E+00 2.26E-01	1.46E+01 5.10E+00 8.41E-01 7.70E-02	2.10E+01 2.98E+00 3.03E-01 3.01E-02
0.0 0.5 1.0	8.93E+00 8.85E+00 8.62E+00	9.18E+00 9.02E+00 8.56E+00	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00	8KEV 9.57E+00 8.92E+00 7.30E+00 3.67E+00 1.55E+00	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+00 5.55E-01	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03
0.0 0.5 1.0 2.0 3.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00	9.36E+00 9.04E+00 8.16E+00 5.58E+00	8KEV 9.57E+00 8.92E+00 7.30E+00 3.67E+00	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+00	1.05E+01 7.98E+00 3.96E+00 7.00E-01	1.18E+01 6.86E+00 2.08E+00 2.26E-01	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 3.52E+00 2.30E+00 1.48E+00	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00 1.76E+00	8KEV 9.57E+00 8.92E+00 7.30E+00 3.67E+00 1.55E+00 6.59E-01	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+00 5.55E-01 2.06E-01	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00 2.27E+00	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 3.52E+00 2.30E+00 1.48E+00 9.61E-01	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00 1.76E+00 9.53E-01 5.34E-01 3.16E-01	8KEV 9.57E+00 8.92E+00 7.30E+00 3.67E+00 1.55E+00 6.59E-01 3.10E-01 9.60E-02	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+00 5.55E-01 2.06E-01 9.45E-02 5.11E-02 3.08E-02	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 1.03E-02	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-02	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 3.62E-03	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00 2.27E+00 1.66E+00	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 3.52E+00 2.30E+00 1.48E+00 9.61E-01 6.34E-01	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00 1.76E+00 9.53E-01 5.34E-01 1.16E-01	8KEV 9.57E+00 8.92E+00 7.30E+00 7.55E+00 6.59E-01 7.10E-01 1.64E-01 9.60E-02 6.11E-02	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+00 5.55E-01 2.06E-01 9.45E-02 3.08E-02 2.00E-02	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 1.03E-02 6.62E-03	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-02 5.77E-03 3.37E-03 2.09E-03	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 3.62E-03 1.87E-03 1.05E-03 6.30E-04	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00 2.27E+00 1.66E+00 1.22E+00	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 3.52E+00 2.30E+00 1.48E+00 9.61E-01 6.34E-01 4.30E-01	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00 1.76E+00 9.53E-01 5.34E-01 3.16E-01 1.32E-01	8KEV 9.57E+00 8.92E+00 7.30E+00 1.55E+00 6.59E-01 3.10E-01 1.64E-01 9.60E-02 6.11E-02 4.13E-02	16KEV 9.89E+00 8.61E+00 5.87E+00 1.55E-01 2.06E-01 9.45E-02 3.08E-02 2.00E-02 1.36E-02	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 1.03E-02 6.62E-03 4.43E-03	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-02 5.77E-03 3.37E-03 1.36E-03	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 3.62E-03 1.87E-03 6.30E-04 4.00E-04	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 3.22E-04 1.19E-04
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00 2.27E+00 1.66E+00	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 3.52E+00 2.30E+00 1.48E+00 9.61E-01 6.34E-01	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00 1.76E+00 9.53E-01 5.34E-01 1.16E-01	8KEV 9.57E+00 8.92E+00 7.30E+00 7.55E+00 6.59E-01 7.10E-01 1.64E-01 9.60E-02 6.11E-02	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+00 5.55E-01 2.06E-01 9.45E-02 3.08E-02 2.00E-02	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 1.03E-02 6.62E-03	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-02 5.77E-03 3.37E-03 2.09E-03	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 3.62E-03 1.87E-03 1.05E-03 6.30E-04	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00 2.27E+00 1.66E+00 1.22E+00 8.98E-01	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+00 9.61E-01 4.30E-01 3.00E-01	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00 1.76E+00 9.53E-01 5.34E-01 1.99E-01 1.32E-01 9.17E-02	8KEY 9.57E+00 8.92E+00 7.30E+00 3.67E+00 1.55E+00 6.59E-01 3.10E-01 9.60E-02 6.11E-02 4.13E-02 2.93E-02	16KEV 9.89E+00 8.61E+00 5.87E+00 1.55E-01 2.06E-01 9.45E-02 3.08E-02 2.00E-02 1.36E-02	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 1.03E-02 6.62E-03 4.43E-03	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-02 5.77E-03 3.37E-03 1.36E-03	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 3.62E-03 1.87E-03 6.30E-04 4.00E-04	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.19E-04
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00 1.66E+00 1.22E+00 8.98E-01	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+00 1.48E+01 4.30E-01 3.00E-01 7.45E-02 2.92E-02	9.36E+00 9.04E+00 8.16E+00 5.58E+00 1.76E+00 9.53E-01 5.34E-01 1.99E-01 1.32E-01 9.17E-02 2.41E-02 9.57E-03	8KEV 9.57E+00 8.92E+00 7.30E+00 1.55E+00 6.59E-01 3.10E-01 1.64E-01 1.64E-01 2.93E-02 4.13E-02 2.93E-02 7.87E-03 2.97E-03	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+01 2.06E-01 9.49E-02 5.11E-02 5.18E-02 2.00E-02 1.36E-02 9.67E-03 2.43E-03 8.52E-04	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 1.03E-02 6.62E-03 4.43E-03 3.07E-03	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-02 5.77E-03 3.37E-03 2.09E-03 1.36E-03 9.14E-04	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 3.62E-03 1.87E-03 1.05E-03 6.30E-04 4.00E-04	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 3.22E-04 1.90E-04 1.19E-04
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00 2.27E+00 1.22E+00 8.98E-01 2.38E-01 8.99E-02 4.35E-02	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 3.52E+00 2.30E+00 1.48E+00 9.61E-01 4.30E-01 3.00E-01 7.45E-02 2.92E-02 1.44E-02	9.36E+00 9.04E+00 8.16E+00 5.58E+00 1.76E+00 9.53E-01 5.34E-01 3.16E-01 1.32E-01 9.17E-02 2.41E-02 9.57E-03 4.59E-03	8KEV 9.57E+00 8.92E+00 7.30E+00 3.67E+00 1.55E+00 6.59E-01 3.10E-01 1.64E-01 9.60E-02 6.11E-02 2.93E-02 7.67E-03 2.97E-03 1.35E-03	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+00 5.55E-01 2.06E-01 9.45E-02 3.08E-02 2.00E-02 1.36E-02 9.67E-03 2.43E-03 8.52E-04 3.68E-04	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 1.03E-02 4.43E-03 3.07E-03	1.18E+01 6.86E+00 2.08E+00 2.26E-01 2.26E-02 2.21E-02 1.06E-02 5.77E-03 3.37E-03 1.36E-03 9.14E-04	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 3.62E-03 1.05E-03 6.30E-04 4.00E-04 2.65E-04	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 3.22E-04 1.19E-04 7.86E-05
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00 2.27E+00 1.66E+00 1.22E+00 8.98E-01 2.38E-01 2.38E-01 4.35E-02 2.46E-02	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+00 9.61E-01 4.30E-01 4.30E-01 7.45E-02 2.92E-02 1.44E-02 8.07E-03	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00 1.76E+00 9.53E-01 3.16E-01 1.99E-01 1.32E-01 9.17E-02 2.41E-02 2.57E-03 4.59E-03 2.47E-03	8KEV 9.57E+00 8.92E+00 7.30E+00 3.67E+00 6.55E+00 6.59E-01 1.64E-01 9.60E-02 6.11E-02 2.93E-02 7.87E-03 2.97E-03 6.93E-04	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+00 5.55E-01 2.06E-01 5.11E-02 3.08E-02 2.00E-02 1.36E-02 2.43E-03 8.52E-04 1.84E-04	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02 3.00E-02 1.71E-02 1.71E-02 1.03E-03 4.43E-03 4.43E-03 4.43E-03 6.96E-04 2.31E-04 2.31E-05 4.78E-05	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-03 3.37E-03 2.09E-03 1.36E-03 9.14E-04 1.92E-04 6.21E-05 1.26E-05	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 3.62E-03 1.87E-03 1.05E-03 6.30E-04 4.00E-04 5.36E-05 1.71E-05 7.07E-06 3.44E-06	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 1.19E-04 1.19E-05 4.97E-05 4.97E-05 4.97E-06 2.05E-06 9.93E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 25.0 25.0 35.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 2.7E+00 1.66E+00 1.22E+00 8.98E-01 2.38E-01 8.99E-02 4.35E-02 2.46E-02 1.53E-02	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+00 1.48E+01 4.30E-01 4.30E-01 7.45E-02 2.92E-02 1.44E-02 1.44E-03 4.91E-03	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00 1.76E+00 9.53E-01 3.16E-01 1.99E-01 1.32E-01 9.17E-02 2.41E-02 4.59E-03 4.59E-03 2.47E-03	8KEY 9.57E+00 8.92E+00 7.30E+00 3.67E+00 1.55E+00 6.59E-01 3.10E-01 9.60E-02 6.11E-02 4.13E-02 2.93E-02 7.87E-03 2.97E-03 1.35E-03 3.92E-04	16KEV 9.89E+00 8.61E+00 5.87E+01 2.06E-01 2.06E-01 9.45E-02 3.08E-02 2.00E-02 1.36E-02 2.43E-03 2.43E-03 3.68E-04 3.68E-04 1.02E-04	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 1.03E-02 6.62E-03 4.43E-03 3.07E-03 6.96E-04 2.31E-04 9.72E-05 2.63E-05	1.18E+01 6.86E+00 2.08E+01 5.64E-02 2.21E-02 1.06E-02 5.77E-03 3.37E-03 2.09E-03 1.36E-03 9.14E-04 1.92E-04 6.21E-05 1.26E-05 6.89E-06	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 3.62E-03 1.87E-03 1.05E-03 6.30E-04 4.00E-04 2.65E-04 5.36E-05 1.71E-05 7.07E-06 3.44E-06 1.88E-06	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 1.19E-05 7.86E-05 1.57E-05 4.97E-06 2.05E-06 2.05E-07 5.39E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00 2.27E+00 1.66E+00 1.22E+00 8.98E-01 2.38E-01 2.38E-01 4.35E-02 2.46E-02	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+00 9.61E-01 4.30E-01 7.45E-02 2.92E-02 1.44E-02 8.07E-03 3.17E-03	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00 1.76E+01 5.34E-01 1.99E-01 1.32E-01 9.17E-02 2.41E-02 9.57E-03 4.59E-03 4.44E-03 8.99E-04	8KEY 9.57E+00 8.92E+00 7.30E+00 3.67E+00 1.55E+00 3.10E-01 1.64E-01 9.60E-02 4.13E-02 2.93E-02 7.87E-03 1.35E-03 6.93E-04 2.38E-04	16KEY 9.89E+00 8.61E+00 5.87E+00 1.84E+00 5.55E-01 2.06E-02 3.08E-02 2.06E-02 2.06E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-04 1.84E-04 1.84E-04 1.84E-04 6.11E-05	1.05E+01 7.98E+00 3.96E+00 1.73E-01 6.43E-02 3.08E-02 1.71E-02 6.62E-03 4.43E-03 3.07E-03 6.96E-04 2.31E-04 9.72E-05 4.78E-05 1.57E-05	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-02 5.77E-03 3.37E-03 2.09E-03 1.36E-03 9.14E-04 1.92E-04 6.21E-05 2.58E-05 1.26E-05 6.89E-06 4.10E-06	1.46E+01 5.10E+00 8.41E-01 7.70E-02 7.89E-03 3.62E-03 1.87E-03 1.05E-04 4.00E-04 2.65E-04 5.36E-05 1.71E-05 7.07E-06 3.44E-06 1.88E-06 1.11E-06	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 7.86E-05 1.57E-05 4.97E-06 2.05E-06 9.93E-07 3.18E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 25.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00 1.66E+00 1.22E+00 8.98E-01 2.38E-01 8.99E-02 4.35E-02 2.46E-02 1.53E-02 1.02E-02	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+00 1.48E+01 4.30E-01 4.30E-01 7.45E-02 2.92E-02 1.44E-02 1.44E-03 4.91E-03	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00 1.76E+00 9.53E-01 3.16E-01 1.99E-01 1.32E-01 9.17E-02 2.41E-02 4.59E-03 4.59E-03 2.47E-03	8KEY 9.57E+00 8.92E+00 7.30E+00 3.67E+00 1.55E+00 6.59E-01 3.10E-01 9.60E-02 6.11E-02 4.13E-02 2.93E-02 7.87E-03 2.97E-03 1.35E-03 3.92E-04	16KEV 9.89E+00 8.61E+00 5.87E+01 2.06E-01 2.06E-01 9.45E-02 3.08E-02 2.00E-02 1.36E-02 2.43E-03 2.43E-03 3.68E-04 3.68E-04 1.02E-04	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 1.03E-02 6.62E-03 4.43E-03 3.07E-03 6.96E-04 2.31E-04 9.72E-05 2.63E-05	1.18E+01 6.86E+00 2.08E+00 2.26E-01 2.26E-02 2.21E-02 1.06E-02 5.77E-03 2.09E-03 1.36E-03 9.14E-04 1.92E-05 2.58E-05 1.26E-05 4.10E-06 2.60E-06	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 3.62E-03 1.87E-03 1.05E-03 6.30E-04 4.00E-04 2.65E-04 5.36E-05 1.71E-05 7.07E-06 3.44E-06 1.88E-06	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 7.86E-05 1.57E-05 4.97E-06 2.05E-06 9.93E-07 5.318E-07 1.99E-07
0.0 0.5 1.0 2.0 3.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 45.0 45.0 60.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 2.27E+00 1.66E+00 1.22E+00 8.98E-01 2.38E-01 8.99E-02 4.35E-02 1.53E-02 1.53E-02 1.02E-02 7.10E-03 5.14E-03 2.94E-03	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+00 1.48E+01 4.30E-01 4.30E-01 7.45E-02 2.92E-02 1.44E-03 4.91E-03 3.17E-03 3.15E-03 8.18E-04	9.36E+00 9.04E+00 8.16E+00 5.58E+00 1.76E+00 9.58E-01 1.99E-01 1.99E-01 2.41E-02 9.57E-03 4.59E-03 4.59E-03 1.44E-03 8.99E-04 5.90E-04 2.12E-04	8KEV 9.57E+00 8.92E+00 7.30E+00 1.55E+00 6.55E+01 3.10E-01 1.64E-01 9.60E-02 6.11E-02 2.93E-02 7.87E-03 1.35E-03 6.93E-04 3.92E-04 1.54E-04	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+00 5.55E-01 2.06E-02 3.08E-02 2.00E-02 1.36E-02 9.67E-03 2.43E-02 9.67E-03 2.43E-04 1.84E-04 1.84E-04 1.84E-04 1.84E-05 3.91E-05	1.05E+01 7.98E+00 3.96E+00 1.73E-01 6.43E-02 3.08E-02 1.71E-02 6.62E-03 4.43E-03 3.07E-03 6.96E-04 2.31E-04 9.72E-05 4.78E-05 1.57E-05 9.98E-06	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-02 5.77E-03 3.37E-03 2.09E-03 1.36E-03 9.14E-04 1.92E-04 6.21E-05 2.58E-05 1.26E-05 6.89E-06 4.10E-06	1.46E+01 5.10E+00 8.41E-01 7.70E-02 7.89E-03 3.62E-03 1.05E-03 1.05E-04 4.00E-04 2.65E-04 5.36E-05 1.71E-05 7.07E-06 3.44E-06 1.88E-06 1.11E-06 7.00E-07	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 7.86E-05 1.57E-05 4.97E-06 2.05E-06 9.93E-07 3.18E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 25.0 30.0 45.0 50.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00 2.27E+00 1.66E+00 1.22E+00 8.98E-01 2.38E-01 8.99E-02 4.35E-02 2.46E-02 1.53E-02 1.02E-02 7.10E-03 5.14E-03 1.85E-03	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+00 6.34E-01 4.30E-01 7.45E-02 2.92E-02 1.44E-02 4.97E-03 3.17E-03 2.14E-03 1.51E-03 4.92E-04	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00 1.76E+01 5.34E-01 1.99E-01 1.32E-01 9.17E-02 2.41E-02 9.57E-03 4.59E-03 4.59E-04 4.05E-04 4.05E-04 1.24E-04	8KEY 9.57E+00 8.92E+00 7.30E+00 1.55E+00 1.55E+01 1.64E-01 9.60E-02 4.13E-02 2.93E-02 7.87E-03 1.35E-03 6.93E-04 2.38E-04 1.54E-04 1.54E-04 1.53E-05 3.09E-05	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+00 5.55E-01 2.06E-02 3.08E-02 3.08E-02 2.06E-02 3.08E-02	1.05E+01 7.98E+00 3.96E+01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 1.03E-02 6.62E-03 4.43E-03 3.07E-03 6.96E-04 2.31E-04 9.72E-05 4.78E-05 1.57E-05 9.98E-06 6.69E-06 6.69E-06 1.94E-06	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-03 3.77E-03 2.09E-03 1.36E-03 9.14E-04 1.92E-04 6.21E-05 1.26E-05 1.26E-05 1.26E-05 4.10E-06 2.60E-06 1.74E-07 4.96E-07	1.46E+01 5.10E+00 8.41E-01 7.70E-02 7.89E-03 3.62E-03 1.87E-03 6.30E-04 4.00E-04 2.65E-04 5.36E-05 1.71E-05 7.07E-06 1.88E-06 1.11E-06 7.00E-07 4.65E-07 1.30E-07	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 1.99E-05 4.97E-05 4.97E-05 4.97E-06 2.05E-06 9.93E-07 5.39E-07 1.98E-07 1.99E-07
0.0 0.5 1.0 3.0 5.0 7.0 7.0 9.0 10.0 25.0 25.0 25.0 40.0 50.0 50.0 50.0 50.0 50.0 50.0 5	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 3.08E+00 2.27E+00 1.66E+00 1.22E+00 2.38E-01 2.38E-01 2.38E-01 2.35E-02 2.46E-02 1.53E-02 1.02E-02 7.10E-03 5.14E-03 2.94E-03 1.85E-03 1.85E-03	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+01 1.48E+00 9.61E-01 4.30E-01 7.45E-02 2.92E-02 1.44E-02 8.07E-03 4.91E-03 3.17E-03 2.14E-03 1.51E-03 8.18E-04 3.20E-04	9.36E+00 9.04E+80 8.16E+00 5.58E+00 1.76E+00 9.53E-01 3.16E-01 1.32E-01 1.32E-02 2.41E-02 2.41E-02 2.47E-03 1.44E-03 1.44E-03 1.44E-03 1.44E-04 4.05E-04 2.12E-04 7.93E-05	8KEV 9.57E+00 8.92E+00 3.67E+00 1.55E+00 6.55E+01 3.10E-01 1.64E-01 9.60E-02 6.11E-02 2.93E-02 7.87E-03 1.35E-03 6.97E-03 1.35E-04 1.54E-04 1.04E-04 5.33E-05 1.96E-05	16KEV 9.89E+00 8.61E+00 1.84E+00 1.84E+01 2.06E-02 3.08E-02 3.08E-02 2.06E-02 9.67E-03 2.452E-04 1.84E-04 1.84E-04 1.84E-05 3.91E-05 2.63E-05 1.34E-05 1.34E-06	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02 3.00E-02 1.71E-02 1.03E-02 6.62E-03 4.43E-03 3.07E-03 6.96E-04 2.31E-04 2.31E-04 9.72E-05 1.57E-05 1.57E-05 9.98E-06 6.69E-06 3.39E-06 6.69E-06 1.22E-06	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-03 3.37E-03 2.09E-03 1.36E-03 9.14E-04 6.21E-05 6.89E-05 6.89E-06 4.10E-06 2.60E-06 1.74E-06 8.74E-07 3.08E-07	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 3.62F-03 1.87E-03 1.05E-03 6.30E-04 4.05E-04 5.36E-05 7.07E-06 3.44E-06 1.08E-06 1.11E-06 7.00E-07 4.65E-07 2.32E-07 7.92E-08	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 7.86E-05 1.57E-05 4.97E-06 2.05E-06 9.93E-07 3.18E-07 1.91E-07 1.91E-07 1.91E-07 1.91E-08 2.11E-08
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 25.0 30.0 45.0 50.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 3.08E+00 2.27E+00 1.66E+00 1.22E+00 8.98E-01 2.38E-01 8.99E-02 4.35E-02 2.46E-02 1.53E-02 1.02E-02 7.10E-03 5.14E-03 1.85E-03	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+00 6.34E-01 4.30E-01 7.45E-02 2.92E-02 1.44E-02 4.97E-03 3.17E-03 2.14E-03 1.51E-03 4.92E-04	9.36E+00 9.04E+00 8.16E+00 5.58E+00 3.25E+00 1.76E+01 5.34E-01 1.99E-01 1.32E-01 9.17E-02 2.41E-02 9.57E-03 4.59E-03 4.59E-04 4.05E-04 4.05E-04 1.24E-04	8KEY 9.57E+00 8.92E+00 7.30E+00 1.55E+00 1.55E+01 1.64E-01 9.60E-02 4.13E-02 2.93E-02 7.87E-03 1.35E-03 6.93E-04 2.38E-04 1.54E-04 1.54E-04 1.53E-05 3.09E-05	16KEV 9.89E+00 8.61E+00 5.87E+00 1.84E+00 5.55E-01 2.06E-02 3.08E-02 3.08E-02 2.06E-02 3.08E-02	1.05E+01 7.98E+00 3.96E+01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 1.03E-02 6.62E-03 4.43E-03 3.07E-03 6.96E-04 2.31E-04 9.72E-05 4.78E-05 1.57E-05 9.98E-06 6.69E-06 6.69E-06 1.94E-06	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-03 3.77E-03 2.09E-03 1.36E-03 9.14E-04 1.92E-04 6.21E-05 1.26E-05 1.26E-05 1.26E-05 4.10E-06 2.60E-06 1.74E-07 4.96E-07	1.46E+01 5.10E+00 8.41E-01 7.70E-02 7.89E-03 3.62E-03 1.87E-03 6.30E-04 4.00E-04 2.65E-04 5.36E-05 1.71E-05 7.07E-06 1.88E-06 1.11E-06 7.00E-07 4.65E-07 1.30E-07	2.10E+01 2.98E+00 3.03E-01 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 7.86E-05 1.57E-05 4.97E-06 2.05E-06 2.05E-06 9.93E-07 3.18E-07 1.31E-07 1.31E-07 1.31E-07 3.53E-08
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 45.0 70.0 80.0 70.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 4.10E+00 2.27E+00 1.66E+00 1.22E+00 8.98E-01 2.38E-01 8.99E-02 4.35E-02 1.53E-02 1.02E-02 7.10E-03 2.14E-03 8.90E-04 6.69E-04	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+001 4.30E-01 4.30E-01 4.30E-01 7.45E-02 2.94E-02 1.46E-03 3.17E-03 3.17E-03 3.17E-03 2.14E-03 4.91E-04 4.92E-04 3.20E-04 4.92E-04 3.20E-04	9.36E+00 9.04E+80 8.16E+00 5.58E+00 1.76E+00 9.53E-01 3.16E-01 1.32E-01 1.32E-02 2.41E-02 2.41E-02 2.47E-03 1.44E-03 1.44E-03 1.44E-03 1.44E-04 4.05E-04 2.12E-04 7.93E-05	8KEV 9.57E+00 8.92E+00 3.67E+00 1.55E+00 6.55E+01 3.10E-01 1.64E-01 9.60E-02 6.11E-02 2.93E-02 7.87E-03 1.35E-03 6.97E-03 1.35E-04 1.54E-04 1.04E-04 5.33E-05 1.96E-05	16KEV 9.89E+00 8.61E+00 1.84E+00 1.84E+01 2.06E-02 3.08E-02 3.08E-02 2.06E-02 9.67E-03 2.452E-04 1.84E-04 1.84E-04 1.84E-05 3.91E-05 2.63E-05 1.34E-05 1.34E-06	1.05E+01 7.98E+00 3.96E+00 7.00E-01 1.73E-01 6.43E-02 3.00E-02 1.71E-02 1.03E-02 6.62E-03 4.43E-03 3.07E-03 6.96E-04 2.31E-04 2.31E-04 9.72E-05 1.57E-05 1.57E-05 9.98E-06 6.69E-06 3.39E-06 6.69E-06 1.22E-06	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-03 3.37E-03 2.09E-03 1.36E-03 9.14E-04 6.21E-05 6.89E-05 6.89E-06 4.10E-06 2.60E-06 1.74E-06 8.74E-07 3.08E-07	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 3.62F-03 1.87E-03 1.05E-03 6.30E-04 4.05E-04 5.36E-05 7.07E-06 3.44E-06 1.08E-06 1.11E-06 7.00E-07 4.65E-07 2.32E-07 7.92E-08	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 7.86E-05 1.57E-05 4.97E-06 2.05E-06 9.93E-07 3.18E-07 1.91E-07 1.91E-07 1.91E-07 1.91E-08 2.11E-08
0.0 0.5 1.0 3.0 4.0 5.0 7.0 8.0 9.0 15.0 25.0 30.0 45.0 50.0 50.0 50.0 50.0 10.	8.93E+00 8.85E+00 8.65E+00 7.77E+00 6.59E+00 5.30E+00 3.08E+00 1.66E+00 1.66E+00 1.22E+00 2.38E-01 2.38E-01 2.38E-01 2.38E-02 1.53E-02 1.53E-02 1.53E-02 1.53E-02 1.53E-03 1.85E-03 1.85E-03 1.85E-03 1.85E-03 1.85E-04	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+01 6.34E-01 4.30E-01 7.45E-02 2.92E-02 1.44E-02 8.07E-03 4.91E-03 3.17E-03 2.14E-03 1.51E-03 8.18E-04 4.22E-04	9.36E+00 9.04E+80 8.16E+00 3.25E+00 1.76E+00 9.53E-01 3.16E-01 1.32E-02 2.41E-02 2.41E-02 2.47E-03 2.47E-03 2.47E-03 2.47E-03 2.47E-03 3.99E-04 4.05E-04 2.12E-04 7.93E-05 5.43E-05 5.43E-05 3.95E-05 3.95E-05 3.93E-05	8KEV 9.57E+00 8.92E+00 3.67E+00 1.55E+00 1.55E+00 1.55E+01 1.64E-01 9.60E-02 6.11E-02 2.93E-02 7.87E-03 1.35E-03 6.92E-04 1.54E-04 1.04E-04 5.33E-05 1.96E-05 1.96E-05 1.96E-05 1.96E-05 1.96E-05 1.96E-06 7.39E-06	16KEV 9.89E+00 8.61E+00 1.84E+00 1.84E+01 2.06E-01 2.06E-02 3.08E-02 2.06E-02 9.67E-03 2.45E-04 1.84E-04 1.84E-04 1.84E-05 1.84E-05 1.84E-05 2.63E-05 1.84E-06 3.91E-05 2.63E-05 1.84E-06 3.91E-05 2.63E-05 1.84E-06 3.91E-06	1.05E+01 7.98E+00 3.96E+01 7.98E+00 7.00E-01 1.73E-01 6.43E-02 1.71E-02 1.03E-02 6.62E-03 4.43E-03 3.07E-04 2.31E-04 9.72E-05 2.63E-05 1.57E-05 9.96E-06 3.39E-06 1.94E-06 1.92E-06 8.23E-07	1.18E+01 6.86E+00 2.08E+01 5.64E-02 2.26E-02 1.06E-02 5.77E-03 3.37E-03 2.09E-03 1.36E-03 9.14E-05 1.26E-05 6.89E-06 4.10E-06 2.60E-06 4.10E-06 8.74E-07 4.96E-07 3.08E-07	1.46E+01 5.10E+00 8.41E-01 7.70E-02 2.05E-02 7.89E-03 1.87E-03 1.87E-03 1.05E-04 4.00E-04 2.65E-04 5.36E-05 1.71E-06 1.88E-06 1.11E-06 7.07E-06 1.88E-06 1.11E-07 7.30E-07 7.92E-08 5.20E-08	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 1.90E-04 1.90E-05 1.57E-05 4.97E-06 2.05E-07 3.39E-07 3.31E-07 1.93E-07
0.0 0.5 1.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 25.0 25.0 35.0 45.0 60.0 70.0 80.0	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10E+00 1.08E+00 1.22E+00 1.66E+00 1.22E+00 1.22E+01 2.38E-01 2.38E-01 2.38E-01 2.38E-02 1.53E-02 1.53E-02 1.53E-02 1.53E-03 1.85E-03 1.24E-03 8.90E-04 6.69E-04 4.31E-04	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+00 9.61E-01 4.30E-01 4.30E-01 7.45E-02 2.92E-03 4.91E-03 3.17E-03 3.17E-03 8.18E-04 4.92E-04 4.92E-04 1.63E-04 1.63E-04 1.63E-04 1.63E-04 1.02E-04	9.36E+00 9.04E+00 8.16E+00 3.25E+00 1.76E+00 9.53E-01 1.99E-01 1.99E-01 1.99E-01 2.47E-02 2.47E-03 2.47E-03 3.99E-04 4.99E-04 4.95E-04 4.12E-04 1.24E-05 5.38E-05 3.89E-05 3.89E-05 3.89E-05 3.89E-05	8KEV 9.57E+00 8.92E+00 3.67E+00 1.55E+00 1.55E+00 1.55E+00 1.55E+00 1.64E-01 9.60E-02 4.13E-02 4.13E-02 2.93E-04 2.93E-04 3.93E-04 3.93E-04 3.93E-04 3.93E-04 3.93E-05 1.94E-05	16KEV 9.89E+00 8.61FE+00 1.84E+00 5.87E+01 2.06E-01 2.06E-02 3.08E-02 2.15E-02 3.08E-02 2.367E-03 2.45EE-04 1.84E-04 1.84E-04 1.84E-05 2.63E-05 1.77E-05 3.91E-06 3.39E-06 1.84E-06 3.39E-06 1.84E-06	1.05E+01 7.98E+00 3.98E+00 3.98E+00 1.73E-01 6.43E-02 3.08E-02 1.71E-02 1.03E-02 6.62E-03 4.43E-03 6.96E-04 2.31E-05 4.78E-05 2.63E-05 1.57E-05 2.63E-05 1.57E-06 6.69E-06 3.39E-06 1.94E-06 8.23E-07 5.96E-07 3.54E-07	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 1.06E-03 3.37E-03 2.09E-03 1.36E-03 4.16E-04 1.92E-04 6.89E-06 4.10E-06 5.74E-07 4.96E-07 2.06E-07 1.46E-07 1.46E-07 8.60E-08	1.46E+01 5.10E+00 8.41E-01 7.70E-02 7.89E-02 7.89E-03 3.62E-03 1.87E-03 1.87E-03 6.30E-04 4.00E-04 5.36E-05 7.17E-06 1.88E-06 1.18E-06 1.18E-07 2.32E-07 1.32E-07 1.32E-07 2.32E-07 2.32E-07 2.32E-07 2.32E-08 3.65E-08 2.04E-08	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 1.99E-05 1.57E-05 4.97E-05 4.97E-06 9.93E-07 5.39E-07 3.18E-07 1.31E-07 6.40E-08 3.53E-08 1.34E-08 9.07E-09 4.82E-09
0.0 0.5 1.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 25.0 25.0 45.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 8	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10EE+00 1.0EE+00 1.22E+00 1.66E+00 1.22E+00 1.66E+00 1.22E+00 2.36E-01 2.36E-01 2.36E-02 1.53E-02 1.53E-02 1.54E-03 1.85E-03 1.85E-03 1.85E-04 4.31E-04 3.65E-04	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+00 1.48E+00 1.48E+01 1.48E+	9.36E+00 9.04E+00 8.16E+00 3.55E+00 1.76E+00 9.53E-01 1.75E-01 1.99E-01 1.99E-01 1.99E-01 2.41E-02 2.47E-03 4.579E-03 4.59E-04 4.59E-04 2.42E-04 7.93E-05 3.03E-05 3.03E-05 3.03E-05 3.03E-05 3.03E-05 3.03E-05	8KEY 9.57E+00 8.92E+00 7.30E+00 1.55E+00 1.55E+00 1.55E+00 1.55E-01 1.55E-01 1.54E-02 2.93E-04 2.93E-04 2.93E-04 2.93E-04 1.54E-05 1.54E-06 1.54E-06 1.54E-06 1.54E-06	16KEV 9.89E+00 8.61E+00 1.84E+00 1.84E+01 2.06E-01 2.06E-02 3.08E-02 2.06E-02 2.06E-02 2.1.36E-02 2.43E-03 8.52E-04 1.84E-04 1.02E-05 2.63E-05 1.34E-05 2.39E-05 1.34E-06 4.36E-06 4.36E-06 1.34E-06 1.34E-06 1.34E-06 1.34E-06 1.34E-06 1.34E-06 1.34E-06 1.34E-06 1.34E-06 1.34E-06 1.34E-06 1.34E-06 1.34E-06 1.34E-06	1.05E+01 7.98E+00 3.98E+00 3.98E+00 1.73E-01 6.43E-02 1.73E-02 1.73E-02 1.73E-03 4.43E-03 3.07E-04 9.72E-05 2.63E-05 1.57E-05 2.63E-05 1.57E-06 3.39E-06 1.22E-07 5.96E-07 3.54E-07 2.92E-07	1.18E+01 6.86E+00 2.08E+01 5.64E-02 2.26E-02 1.06E-02 5.77E-03 3.37E-03 2.09E-03 1.36E-03 9.14E-05 1.26E-05 6.89E-06 4.10E-06 2.60E-06 4.74E-07 4.96E-07 2.06E-07 1.46E-07 1.40E-08 7.03E-08	1.46E+01 5.10E+00 8.41E-01 7.70E-02 7.89E-03 3.62E-03 1.87E-03 6.30E-04 4.00E-04 2.65E-05 7.71E-06 1.88E-06 1.11E-06 7.00E-07 2.32E-07 7.30E-07 7.30E-07 7.92E-08 3.65E-08 3.65E-08 2.67E-08 1.65E-08	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 1.90E-04 1.97E-05 4.97E-05 4.97E-06 2.05E-07 3.31E-07 3.31E-07 6.40E-08 3.53E-08 2.11E-08 2.11E-08 4.34E-08 4.34E-08 4.49E-09 4.89E-09 4.89E-09 4.89E-09 4.89E-09 4.89E-09 4.89E-09 4.89E-09 4.89E-09 4.89E-09
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 45.0 70.0 80.0 90.0	8.93E+00 8.85E+00 8.62E+00 8.62E+00 7.77E+00 6.59E+00 1.0E+00 2.27E+00 1.66E+00 1.22E+00 8.98E-01 2.38E-01 8.99E-02 4.35E-02 1.53E-02 1.02E-02 7.10E-03 3.94E-03 1.85E-03 1.85E-04 4.31E-04 4.31E-04 4.31E-04 4.31E-04 4.31E-04	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+001 4.30E-01 4.30E-01 4.30E-01 7.45E-01 4.30E-01 7.45E-01 4.30E-01 7.45E-03 3.17E-03 3.17E-03 3.17E-03 3.17E-03 3.17E-04 4.92E-04 3.22E-04 4.92E-04 3.22E-04 4.92E-05 7.38E-05	9.36E+00 9.04E+00 8.16E+00 3.16E+00 1.76E+00 9.34E-01 1.79E-01 1.99E-01 1.99E-01 1.97E-03 4.57E-03 4.57E-03 4.57E-03 4.57E-04 4.05E-04 4.05E-04 4.05E-04 5.36E-05 3.96E-05	8KEV 9.57E+00 8.92E+00 7.30E+00 1.55E+00 1.55E+00 1.55E+01 1.64E-01 9.61E-02 2.93E-02 7.87E-03 1.35E-02 2.97E-03 1.35E-04 1.54E-04 1.54E-04 1.54E-05 1.54E-05 1.54E-05 1.53E-05 1.53E-05 1.53E-05 1.53E-05 1.53E-06	16KEV 9.89E+00 8.61F+00 1.84E+00 5.55E-01 2.06E-02 3.08E-02 2.00E-02 2.00E-02 3.08E-04 1.08E-05 1.34E-05 1.34E-06 1.20E-06 1.20E-06 1.03E-06	1.05E+01 7.98E+00 3.98E+00 3.98E+01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 6.62E-03 4.43E-03 3.07E-03 6.96E-04 2.31E-05 2.63E-05 1.57E-05 9.98E-06 3.39E-06 1.94E-06 1.94E-07 3.54E-07 2.51E-07	1.18E+01 6.86E+00 2.08E+01 5.64E-02 2.21E-02 1.06E-02 5.77E-03 3.77E-03 2.09E-03 1.36E-03 9.14E-04 1.92E-05 6.89E-05 6.89E-06 4.10E-06 1.74E-07 4.96E-07 2.08E-07 1.46E-07 1.46E-07 8.60E-08 5.97E-08	1.46E+01 5.10E+00 8.41E-01 7.70E-02 7.89E-03 3.62E-03 1.87E-03 6.30E-04 4.00E-04 2.65E-04 5.36E-05 7.71E-06 1.88E-06 1.11E-06 7.00E-07 4.65E-07 1.30E-07 7.30E-08 3.65E-08 3.65E-08 2.04E-08 1.39E-08	2.10E+01 2.98E+00 3.03E-01 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 1.19E-04 7.86E-05 4.97E-06 2.05E-06 2.05E-06 2.93E-07 3.18E-07 1.31E-07 1.31E-08 3.53E-08 2.11E-08 1.34E-08 9.07E-09 4.82E-09 4.82E-09 4.82E-09 4.82E-09 2.99E-09
0.0 0.5 1.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 25.0 25.0 45.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 70.0 80.0 8	8.93E+00 8.85E+00 8.62E+00 7.77E+00 6.59E+00 5.30E+00 4.10EE+00 1.0EE+00 1.22E+00 1.66E+00 1.22E+00 1.66E+00 1.22E+00 2.36E-01 2.36E-01 2.36E-02 1.53E-02 1.53E-02 1.54E-03 1.85E-03 1.85E-03 1.85E-04 4.31E-04 3.65E-04	9.18E+00 9.02E+00 8.56E+00 7.01E+00 5.15E+00 2.30E+00 1.48E+00 1.48E+00 1.48E+01 1.48E+	9.36E+00 9.04E+80 8.16E+00 3.16E+00 1.76E+00 1.75E+00 1.75E+01 1.95E-01 1.95E-01 1.32FE-02 2.47E-03 2.47E-03 2.47E-03 2.47E-04 4.05E-04 4.05E-04 4.05E-05 3.05E-05	8KEV 9.57E+00 8.92E+00 3.67E+00 1.55E+00 1.55E+00 1.55E+00 1.55E+00 1.55E+00 1.55E+00 1.54E-02 2.93E - 02 2.93E - 03 1.96E-02 2.93E-04 1.94E-04 1.94E-04 1.94E-04 1.94E-05 1.96E-05 1.96E-05 1.96E-06 4.83E-06 4.83E-06 4.83E-06 4.83E-06 4.83E-06 4.83E-06 4.83E-06 4.83E-06 4.83E-06	16KEV 9.89E+00 8.61FE+00 1.84E+00 1.84E+01 2.06E-02 3.08E-02 2.06E-02 1.36E-02 2.06E-02 2.06E-02 3.08E-02 1.36E-03 2.45E-04 1.84E-04 1.84E-04 1.84E-05 1.34E-05 1.34E-06 1.84E-06 1.44E-06 1.20E-06 1.20E-06 1.20E-06 1.20E-06 1.20E-06 1.20E-06 1.20E-06 1.20E-06 1.20E-06 1.20E-06 1.20E-06	1.05E+01 7.98E+00 3.98E+00 3.96E+01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 6.62E-03 4.43E-03 6.96E-04 2.31E-05 4.78E-05 2.63E-05 1.57E-06 6.69E-06 3.39E-06 6.69E-06 3.39E-06 6.69E-06 3.39E-07 2.51E-07 2.51E-07 2.23E-07	1.18E+01 6.86E+00 2.08E+00 2.26E-01 5.64E-02 2.21E-02 5.77E-03 3.37E-03 2.09E-03 1.36E-03 9.14E-04 4.258E-05 6.89E-06 4.10E-06 6.74E-07 4.96E-07 4.96E-07 2.06E-07 1.46E-07 8.60E-08 7.03E-08 7.03E-08 5.28E-08	1.46E+01 5.10E+00 8.41E-01 7.70E-02 7.89E-03 3.62FE-03 1.05E-03 1.05E-04 4.05E-04 5.36E-04 5.36E-05 7.77E-06 3.44E-06 1.31E-07 4.65E-07 7.32E-07 7.32E-08 3.65E-08 2.67E-08 2.67E-08 1.53E-08 1.65E-08	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.19E-04 1.19E-05 4.97E-06 2.05E-06 9.93E-07 7.31E-07 6.40E-08 3.21E-08 1.34E-08 9.07E-09 4.82E-09 3.70E-09 4.82E-09 2.99E-09 2.99E-09 2.99E-09
0.0 0.5 1.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 15.0 25.0 10.0 15.0 10.0 10.0 10.0 10.0 11.0 11	8.93E+00 8.85E+00 8.67E+00 7.77E+00 6.59E+00 5.30E+00 3.08E+00 2.27E+00 1.66E+00 1.22E+00 1.66E+00 1.22E-01 2.38E-01 2.38E-01 2.38E-02 2.46E-02 1.53E-02 2.46E-02 1.53E-02 3.54E-03 3.94E-04 3.94E-04 3.94E-04 3.94E-04 3.94E-04 3.94E-04	9.18E+00 9.02E+00 8.56E+00 8.56E+00 5.15E+00 3.52E+00 2.38E+00 9.61E-01 4.30E-01 7.45E-02 2.92E-02 1.46E-03 4.91E-03 3.17E-03 3.17E-03 8.18E-04 4.22E-04 4.22E-04 1.26E-04 1.26E-05 6.63E-05 6.63E-05	9.36E+00 9.04E+00 8.16E+00 3.16E+00 1.76E+00 9.34E-01 1.79E-01 1.99E-01 1.99E-01 1.97E-03 4.57E-03 4.57E-03 4.57E-03 4.57E-04 4.05E-04 4.05E-04 4.05E-04 5.36E-05 3.96E-05	8KEV 9.57E+00 8.92E+00 7.30E+00 1.55E+00 1.55E+00 1.55E+01 1.64E-01 9.61E-02 2.93E-02 7.87E-03 1.35E-02 2.97E-03 1.35E-04 1.54E-04 1.54E-04 1.54E-05 1.54E-05 1.54E-05 1.53E-05 1.53E-05 1.53E-05 1.53E-05 1.53E-06	16KEV 9.89E+00 8.61F+00 1.84E+00 5.55E-01 2.06E-02 3.08E-02 2.00E-02 2.00E-02 3.08E-04 1.08E-05 1.34E-05 1.34E-06 1.20E-06 1.20E-06 1.03E-06	1.05E+01 7.98E+00 3.98E+00 3.98E+01 1.73E-01 6.43E-02 3.08E-02 1.71E-02 6.62E-03 4.43E-03 3.07E-03 6.96E-04 2.31E-05 2.63E-05 1.57E-05 9.98E-06 3.39E-06 1.94E-06 1.94E-07 3.54E-07 2.51E-07	1.18E+01 6.86E+00 2.08E+01 5.64E-02 2.21E-02 1.06E-02 5.77E-03 3.77E-03 2.09E-03 1.36E-03 9.14E-04 1.92E-05 6.89E-05 6.89E-06 4.10E-06 1.74E-07 4.96E-07 2.08E-07 1.46E-07 1.46E-07 8.60E-08 5.97E-08	1.46E+01 5.10E+00 8.41E-01 7.70E-02 7.89E-03 3.62E-03 1.87E-03 6.30E-04 4.00E-04 2.65E-04 5.36E-05 7.07E-06 1.88E-06 1.11E-06 7.00E-07 4.65E-07 1.30E-07 7.92E-08 3.65E-08 2.64E-08 2.64E-08 1.39E-08	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 1.99E-04 1.99E-05 4.97E-05 4.97E-06 9.93E-07 5.39E-07 3.18E-07 1.91E-07 1.91E-08 3.53E-08 1.34E-08 1.34E-08 1.34E-08 2.11E-08 1.34E-08 2.11E-08 2.11E-09 2.95E-09 2.95E-09 2.95E-09 2.95E-09
0.0 0.5 1.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 45.0 90.0 45.0 90.0 100.0 110.0	8.93E+00 8.85E+00 8.67E+00 7.77E+00 6.59E+00 5.30E+00 1.08E+00 1.22E+00 1.22E+00 1.22E+00 1.22E+00 2.38E-01 2.38E-01 2.38E-02 2.46E-02 1.52E-02 1.52E-02 1.52E-03 3.94E-03 2.94E-03 3.94E-03 3.94E-04 3.52E-04 4.35E-04 3.20E-04 3.26E-04 3.20E-04	9.18E+00 9.02E+00 8.561E+00 7.015E+00 3.52E+00 2.30EE+00 1.46EE-01 4.30EE-01 4.30EE-01 4.30EE-01 7.01E-01 7.022 1.46E-01 7.022 1.46E-01 1.51E-02 1.51E-04 1.51E-04 1.51E-04 1.51E-04 1.51E-04 1.51E-05 5.78E-05 5.78E-05 5.78E-05	9.36E+00 9.04E+80 8.16E+00 3.76E+00 1.75E+00 1.75E+01 3.16E-01 1.32FE-02 2.47E-03 2.47E-03 2.47E-03 2.47E-04 4.57E-04 4.57E-04 4.57E-04 4.57E-05 3.68E-05 3.68E-05 1.56E-05 1.56E-05 1.56E-05 1.35E-05 1.35E-05	8KEV 9.57E+00 8.92E+00 3.67E+00 1.55E+00 1.55E+00 1.55E+00 1.55E+00 1.54E-02 2.93E-02 2.93E-02 2.93E-03 1.33E-04 2.93E-04 1.34E-04 1.34E-04 1.34E-04 1.34E-04 1.34E-04 1.34E-04 1.34E-05 1.34E-05 1.34E-05 1.34E-05 1.34E-05 1.34E-05 1.34E-05 1.34E-05 1.34E-06	16KEV 9.89E+00 8.61F+00 1.84F+00 1.84F+00 2.06E-01 2.06E-02 3.08E-02 2.06E-02 3.08E-02 2.06E-02 9.67E-03 2.45E-04 1.82E-04 1.82E-04 1.82E-05 1.74E-05 2.39E-05 1.74E-06 1.84E-06 1.20E-06 1.20E-07 8.50E-07 7.96E-07 7.96E-07	1.05E+01 7.98E+00 3.98E+00 1.73E-01 6.43E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-03 4.43E-03 3.07E-03 4.43E-03 4.43E-03 4.43E-05 2.657E-05 1.57E-05 1.57E-05 1.57E-06 3.94E-06 3.94E-06 1.94E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07 2.51E-07	1.18E+01 6.86E+01 2.08E+01 5.64E-02 2.26E-01 5.64E-02 2.21E-02 5.77E-03 3.37E-03 2.07E-03 1.36E-04 4.92E-05 6.89E-05 6.89E-06 4.10E-06 4.10E-06 8.74E-07 4.10E-06 8.74E-07 4.10E-06 8.74E-07 7.03E-08 7.03E-08 7.03E-08 4.58E-08 4.58E-08	1.46E+01 5.10E+00 8.410E+00 8.410E+002 7.70E-02 7.89E-03 3.62E-03 1.87E-03 1.87E-03 6.30E-04 4.00E-04 5.36E-04 5.36E-06 1.88E-06 1.18E-06 1.88E-07 1.39E-08 2.67E-08 1.65E-08 1.65E-08 1.39E-08 1.39E-08	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 1.19E-05 4.97E-06 2.05E-06 9.93E-07 5.39E-07 3.18E-07 6.40E-08 2.11E-08 1.34E-08 9.07E-09 4.82E-09 3.70E-09 4.82E-09 2.99E-09 2.99E-09 2.99E-09
0.0 0.5 1.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 15.0 25.0 10.0 15.0 10.0 10.0 10.0 10.0 11.0 11	8.93E+00 8.85E+00 8.65E+00 8.67E+00 6.59E+00 5.30E+00 4.10EE+00 1.66E+00 1.22E+00 1.66E+00 1.22E+00 1.66E+00 1.22E+00 1.66E+00 1.22E+00 1.66E+00 1.22E+00 1.66E+00 1.22E+00 1.66E+00 1.22E+00 1.66E+00 1.22E+00 1.66E+00 1.22E+00 1.66E+00 1.22E+00 1.66E+00 1.22E-02 1.53E-02 1.53E-02 1.53E-03 1.84E-03 1.84E-03 1.84E-03 1.84E-04 1.84E	9.18E+00 9.02E+00 8.50E+00 7.01E+00 3.52E+00 2.30E+00 1.48E+	9.36E+00 9.04E+00 8.16EE+00 1.58EE+00 1.75EE+00 1.753EE-01 1.932FE-01 1.932FE-01 1.932FE-032 4.579E-03 4.579E-04 4.590E-04 2.47E-05 3.033 8.90E-04 2.47E-05 3.032 3.032 3.042 3.042 3.042 3.052 3.052 3.052 3.055	8KEV 9.57E+00 8.92E+00 3.67E+00 1.55E+00 1.55E+00 1.55E+00 1.55E+00 1.55E+00 1.55E-02 2.93E-02 2.93E-02 2.93E-02 2.93E-03 1.35E-04 1.36E-04 1.36E-04 1.54E-04 1.54E-05 1.54E-05 1.54E-05 1.54E-05 1.54E-05 1.54E-05 1.54E-05 1.54E-05 1.53E-05 1.53E-05 1.53E-05 1.53E-06	16KEV 9.89E+00 8.61E+00 1.84E+00 1.84E+01 2.06E-01 2.08E-02 2.08E-02 2.08E-02 2.1.36E-02 2.3.08E-02 2.3.08E-02 2.3.08E-02 2.3.08E-02 2.3.08E-02 2.3.08E-02 2.3.08E-02 2.3.08E-02 2.3.08E-02 2.3.08E-02 2.3.08E-02 2.3.08E-02 2.3.08E-02 2.3.08E-02 2.3.08E-03 2.3.08E-04 1.84E-04 1.84E-05 2.3.91E-05 1.34E-06 1.34E-07 8.31E-07 8.31E-07	1.05E+01 7.98E+00 3.98E+00 3.98E+01 1.73E-01 6.43E-02 1.73E-02 1.73E-02 1.73E-02 6.62E-03 4.43E-03 6.96E-04 9.72E-05 2.63E-05 1.96E-06 3.39E-06 1.94E-06 3.39E-06 1.94E-07 2.94E-07 2.94E-07 2.95E-07 2.95E-07 2.95E-07 2.95E-07	1.18E+01 6.86E+00 2.06E+01 2.06E+01 2.26E-02 2.21E-02 2.21E-03 3.37E-03 2.09E-03 1.36E-04 1.921E-05 6.89E-06 4.10E-06 8.74E-07 4.96E-07 4.96E-07 1.46E-07 4.96E-07 1.46E-07 7.03E-08 8.03E-08 8.03E-08 8.03E-08 8.03E-08 8.03E-08 8.03E-08 8.03E-08 8.03E-08 8.03E-08 8.03E-08	1.46E+01 5.10E+00 8.41E+00 8.41E+00 8.41E+00 8.41E+002 7.89E-02 7.89E-03 1.87E-03 1.87E-03 6.30E-04 4.00E-04 5.36E-04 5.36E-05 1.71E-06 1.88E-06 1.11E-07 7.07E-08 1.82E-07 7.92E-08 3.65E-08 2.67E-08 1.39E-08 1.39E-08 1.39E-08 1.08E-08	2.10E+01 2.98E+00 3.03E-01 3.01E-02 7.73E-03 2.75E-03 1.19E-03 5.89E-04 1.90E-04 1.90E-04 1.97E-05 4.97E-06 2.05E-07 3.38E-07 3.38E-07 3.38E-07 3.38E-07 3.38E-07 3.38E-07 3.38E-07 3.38E-07 3.48E-08 2.11E-08 2.11E-08 3.53E-08 2.11E-08 2.11E-08 2.11E-08 2.11E-08 2.11E-09 2.26E-09 2.56E-09 2.05E-09

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

				CARBON	. 7=6				
ANGLE	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
0.0	5.38E+00	5.76E+00	6.01E+00	6.22E+00	6.47E+00	6.90E+00	7.76E+00	9.59E+00	1.38E+01
0.5	5.36E+00	5.71E+00	5.91E+00	6.01E+00	6.04E+00	6.02E+00	5.91E+00	5.57E+00	4.71E+00
1.0 2.0	5.29E+00 5.02E+00	5.56E+00 5.03E+00	5.62E+00 4.63E+00	5.44E+00 3.79E+00	4.98E+00 2.60E+00	4.17E+00 1.41E+00	3.02E+00 5.89E-01	1.77E+00 2.02E-01	8.09E-01 6.74E-02
3.0	4.62E+00	4.295+80	3.46E+00	2.29E+00	1.17E+00	4.55E-01	1.46E-01	4.57E-02	1.58E-02
4.0	4.12E+00	3.49E+00	2.43E+00	1.30E+00	5.26E-01	1.70E-01	5.10E-02	1.63E-02	5.65E-03
5.0	3.59E+00	2.74E+00	1.64E+00	7.34E-01	2.53E-01	7.54E-02	2.27E-02	7.37E-03	2.50E-03
6.0	3.06E+00	2.10E+00	1.09E+00	4.24E-01	1.33E-01	3.87E-02	1.18E-02	3.84E-03	1.27E-03
7•0 8•0	2.57E+00 2.12E+00	1.59E+00 1.19E+00	7.28E-01 4.92E-01	2.54E-01 1.59E-01	7.56E-02 4.64E-02	2.22E-02 1.37E-02	6.86E-03 4.27E-03	2.19E-03 1.34E-03	7.03E-04 4.20E-04
9.0	1.74E+00	8.91E-01	3.38E-01	1.04E-01	3.03E-02	9.06E-03	2.80E-03	8.60E-04	2.65E-04
10.0	1.42E+00	6.70E-01	2.38E-01	7.13E-02	2.07E-02	6.24E-03	1.91E-03	5.77E-04	1.75E-04
									7 - 7 - 6 -
15.0	5.14E-01 2.08E-01	1.86E-01 5.82E-02	5.66E-02	1.668-02	4.94E-03 1.77E-03	1.46E-03	4.19E-04 1.38E-04	1.20E-04 3.86E-05	3.53E-05 1.13E-05
20.0 25.0	9.91E-02	3.13E-02	2.03E-02 9.36E-03	6.03E-03 2.76E-03	7.87E-04	5.01E-04 2.15E-04	5.79E-05	1.60E-05	4.64E-06
30.0	5.39E-02	1.68E-02	5.00E-03	1.45E-03	4.00E-04	1.07E-04	2.84E-05	7.78E-06	2.25E-06
35.0	3.24E-02	9.96E-03	2.95E-03	8.36E-04	2.25E-04	5.90E-05	1.56E-05	4.24E-06	1.22E-06
40.0	2.10E-02	6.39E-03	1.87E-03	5.16E-04	1.36E-04	3.54E-05	9.28E-06	2.52E-06	7.19E-07
45.0	1.44E-02	4.34E-03	1.24E-03	3.37E-04	8.77E-05	2.26E-05	5.90E-06	1.59E-06	4.52E-07
50.0 60.0	1.04E-02 5.93E-03	3.08E-03 1.71E-03	8.66E-04 4.65E-04	2.30E-04 1.20E-04	5.92E-05 3.04E-05	1.52E-05 7.69E-06	3.94E-06 1.98E-06	1.06E-06 5.25E-07	2.99E-07 1.46E-07
70.0	3.78E-03	1.06E-03	2.77E-04	7.01E-05	1.75E-05	4.41E-06	1.13E-06	2.95E-07	8.00E-08
80.0	2.60E-03	7.03E-04	1.79E-04	4.46E-05	1.11E-05	2.77E-06	6.99E-07	1.80E-07	4.80E-08
90.0	1.91E-03	4.99E-04	1.24E-04	3.05E-05	7.53E-06	1.87E-06	4.68E-07	1.18E-07	3.06E-08
					5 44 5 0 6	4 745 06	7 705 67	4 975 94	2 075-04
100.0	1.48E-03 1.19E-03	3.73E-04	9.11E-05	2.22E-05 1.70E-05	5.44E-06 4.13E-06	1.34E-06 1.02E-06	3.32E-07 2.49E-07	8.27E-08 6.04E-08	2.07E-08 1.47E-08
110.0 120.0	9.93E-04	2.92E-04 2.38E-04	7.01E-05 5.64E-05	1.35E-05	3.29E-06	8.02E-07	1.94E-07	4.65E-08	1.09E-08
130.0	8.58E-04	2.01E-04	4.71E-05	1.13E-05	2.73E-06	6.63E-07	1.59E-07	3.73E-08	8.45E-09
140.0	7.64E-04	1.76E-84	4.09E-05	9.75E-06	2.35E-06	5.68E-07	1.35E-07	3.11E-08	6.82E-09
150.0	6.99E-04	1.58E-04	3.67E-05	8-71E-06	2.10E-06	5.05E-07	1.19E-07	2.72E-08	5.71E-09
160.0	6.57E-04	1.47E-04	3.40E-05	8.04E-06	1.94E-06	4.65E-07	1.09E-07	2.45E-08	5.09E-09
170.0	6.33E-04	1.41E-04	3.25E-05	7.69E-06	1.85E-06	4.42E-07	1.04E-07	2.31E-08	4.69E-09
180.0	6.26E-04	1.39E-04	3.19E-05	7.59E-06	1.82E-06	4.38E-07	1.03E-07	2.30E-08	4.49E-09
TOTAL Trans	5.29E-01 3.75E-02	2.86E-01 1.14E-02	1.50E-01 3.37E-03	7.75E-02 9.71E-04	4.01E-02 2.78E-04	2.11E-02 7.93E-05	1.15E-02 2.30E-05	6.71E-03 6.87E-06	4.35E-03 2.16E-06
INANG				NITROG	EN. Z=7				
	1KEV	2KEV	4KEV	NITROG 8kev	EN, Z=7 16KE V	32KE V	64KEV	128KE Y	256KEV
ANGLE 0.0						32KEV 5.47E+00	64KEV 6.15E+00	128KEV 7.61E+00	1.10E+01
ANGLE	1KEV 4.05E+00 4.04E+00	2KEV 4.43E+00 4.40E+00	4KEV 4.69E+00 4.63E+00	8KEV 4.89E+00 4.77E+00	16KEV 5.11E+00 4.86E+00	5.47E+00 4.94E+00	6.15E+00 5.01E+00	7.61E+00 5.02E+00	1.10E+01 4.74E+00
ANGLE 0-0 0-5 1-0	1KEV 4.05E+00 4.04E+00 4.00E+00	2KEV 4.43E+00 4.40E+00 4.32E+00	4KEV 4.69E+00 4.63E+00 4.46E+00	8KEV 4.89E+00 4.77E+00 4.43E+00	16KEV 5.11E+00 4.86E+00 4.20E+00	5.47E+08 4.94E+00 3.72E+00	6.15E+00 5.01E+00 2.96E+00	7.61E+00 5.02E+00 1.98E+00	1.10E+01 4.74E+00 1.05E+00
ANGLE 0.0 0.5 1.0 2.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00	2KEV 4.43E+00 4.40E+00 4.32E+00 4.00E+00	4KEV 4.69E+00 4.63E+00 4.46E+00 3.85E+00	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00	5.47E+00 4.94E+00 3.72E+00 1.55E+00	6.15E+00 5.01E+00 2.96E+00 7.42E-01	7.61E+00 5.02E+00 1.98E+00 2.81E-01	1.10E+01 4.74E+00 1.05E+00 9.49E-02
ANGLE 0.0 0.5 1.0 2.0 3.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.60E+00	2KEV 4.43E+00 4.40E+00 4.32E+00 4.00E+80 3.54E+00	4KEV 4.69E+00 4.63E+00 4.46E+00 3.85E+00 3.07E+00	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01	6.15E+00 5.01E+00 2.96E+00 7.42E-01 2.04E-01	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02	1.10E+01 4.74E+00 1.05E+00 9.49E+02 2.13E-02
ANGLE 0.0 0.5 1.0 2.0 3.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.50E+00 3.30E+00	2KEV 4.43E+00 4.40E+00 4.32E+00 4.00E+00 3.54E+00 3.02E+00	4KEV 4.69E+00 4.63E+00 4.46E+00 3.85E+00 3.07E+00 2.32E+00	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.41E+00	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01	6.15E+00 5.01E+00 2.96E+00 7.42E-01 2.04E-01 7.21E-02	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02	1.10E+01 4.74E+00 1.05E+00 9.49E-02 2.13E-02 7.49E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.60E+00 3.30E+00 2.96E+00	2KEV 4.43E+00 4.40E+00 4.32E+00 4.00E+80 3.54E+00 2.49E+00	4KEV 4.69E+00 4.63E+00 4.46E+00 3.07E+00 2.32E+00 1.68E+00	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.41E+00 8.65E-01	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 3.37E-01	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.07E-01	6.15E+00 5.01E+00 2.96E+00 7.42E-01 2.04E-01	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02	1.10E+01 4.74E+00 1.05E+00 9.49E+02 2.13E-02
ANGLE 0.0 0.5 1.0 2.0 3.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.50E+00 3.30E+00	2KEV 4.43E+00 4.40E+00 4.32E+00 4.00E+00 3.54E+00 3.02E+00	4KEV 4.69E+00 4.63E+00 4.46E+00 3.85E+00 3.07E+00 2.32E+00	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.41E+00	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01	6.15E+00 5.01E+00 2.96E+00 7.42E-01 2.04E-01 7.21E-02 3.15E-02	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03	1.10E+01 4.74E+00 1.05E+00 9.49E-02 2.13E-02 7.49E-03 3.32E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.60E+00 2.96E+00 2.61E+00	2KEV 4.43E+00 4.40E+00 4.32E+00 4.00E+00 3.54E+00 2.49E+00 2.49E+00	4KEV 4.69E+00 4.63E+00 4.46E+00 3.85E+00 2.32E+00 1.68E+00 1.20E+00	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.41E+00 8.65E-01 5.33E-01 2.17E-01	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 3.37E-01 1.86E-01 6.53E-02	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.07E-01 5.45E-02	6.15E+00 5.01E+00 2.96E+00 7.42E-01 2.04E-01 7.21E-02 3.15E-02 1.61E-02 9.20E-03 5.67E-03	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03 5.10E-03 2.91E-03 1.76E-03	1.10E+01 4.74E+00 1.05E+00 9.49E-02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 5.65E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.30E+00 2.96E+00 2.27E+00 1.66E+00	2KEV 4.43E+00 4.40E+00 4.32E+00 4.00E+00 3.54E+00 3.02E+00 2.49E+00 1.60E+00 1.65E+00 9.81E-01	4KEV 4.69E+00 4.63E+00 4.46E+00 3.07E+00 2.32E+00 1.68E+00 1.20E+00 8.46E-01 4.28E-01	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.41E+00 8.65E-01 5.33E-01 3.35E-01 1.45E-01	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 3.37E-01 1.83E-01 1.06E-01 6.53E-02 4.23E-02	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.51E-01 2.34E-01 1.07E-01 5.45E-02 3.08E-02 1.23E-02	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.15E-02 1.61E-02 9.20E-03 5.67E-03 3.70E-03	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.81E-02 2.22E-02 9.86E-03 5.10E-03 2.91E-03 1.15E-03	1.10E+01 4.74E+00 1.05E+00 9.49E+02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 5.65E-04 3.58E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.50E+00 2.96E+00 2.2FE+00 1.95E+00	2KEV 4.43E+00 4.40E+00 4.32E+00 4.00E+00 3.54E+00 2.49E+00 2.01E+00 1.60E+00 1.25E+00	4KEV 4.69E+00 4.63E+00 4.46E+00 3.07E+00 2.32E+00 1.20E+00 8.46E-01 5.99E-01	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.41E+00 8.65E-01 5.33E-01 2.17E-01	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 3.37E-01 1.86E-01 6.53E-02	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.07E-01 5.45E-02 1.88E-02	6.15E+00 5.01E+00 2.96E+00 7.42E-01 2.04E-01 7.21E-02 3.15E-02 1.61E-02 9.20E-03 5.67E-03	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03 5.10E-03 2.91E-03 1.76E-03	1.10E+01 4.74E+00 1.05E+00 9.49E-02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 5.65E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.60E+00 2.96E+00 2.61E+00 2.27E+00 1.95E+00 1.40E+00	2KEV 4.43E+00 4.40E+00 4.32E+00 3.54E+00 3.54E+00 2.49E+00 1.60E+00 1.25E+00 9.81E-01 7.66E-01	4KEV 4.69E+00 4.63E+00 4.46E+00 3.07E+00 2.32E+00 1.68E+00 1.20E+00 8.46E-01 4.28E-01	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.41E+00 8.65E-01 5.33E-01 3.35E-01 2.17E-01 1.45E-01 9.94E-02	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 1.82E-01 1.06E-01 6.53E-02 4.23E-02	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.07E-02 3.08E-02 1.88E-02 1.23E-02 8.37E-03	6.15E+00 5.01E+00 2.96E+00 7.42E-01 2.04E-01 7.21E-02 3.15E-02 1.61E-02 9.20E-03 5.67E-03 2.53E-03	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.81E-02 2.22E-02 9.86E-03 5.10E-03 2.91E-03 1.15E-03	1.10E+01 4.74E+00 1.05E+00 9.49E+02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 5.65E-04 3.58E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.60E+00 2.96E+00 2.61E+00 2.27E+00 1.95E+00 1.40E+00	2KEV 4.43E+00 4.40E+00 4.32E+00 3.54E+00 3.54E+00 2.49E+00 1.60E+00 1.25E+00 9.81E-01 7.66E-01	4KEV 4.69E+00 4.63E+00 4.65E+00 3.85E+00 1.68E+00 1.20E+00 8.46E-01 5.99E-01 4.28E-01 3.10E-01	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.41E+00 8.65E-01 5.33E-01 3.35E-01 2.17E-01 1.45E-01 9.94E-02	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 1.82E-01 1.06E-01 6.53E-02 4.23E-02	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.07E-02 3.08E-02 1.88E-02 1.23E-02 8.37E-03	6.15E+00 5.01E+00 2.96E+00 7.42E-01 2.04E-01 7.21E-02 3.15E-02 1.61E-02 9.20E-03 5.67E-03 2.53E-03	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03 5.10E-03 1.78E-03 1.15E-03 7.71E-04	1.10E+01 4.74E+00 1.05E+00 9.49E-02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 3.58E-04 2.37E-04 4.80E-05 1.53E-05
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.50E+00 2.96E+00 2.27E+00 1.95E+00 1.40E+00	2KEV 4.43E+00 4.40E+00 4.32E+00 3.02E+00 3.54E+00 2.01E+00 1.60E+00 1.25E+00 9.81E-01 7.66E-01 2.39E-01	4KEV 4.69E+00 4.63E+00 4.46E+00 3.85E+00 3.07E+00 2.32E+00 1.20E+00 8.46E-01 5.99E-01 4.28E-01 3.10E-01 7.80E-02	8KEV 4.89E+00 4.77E+00 3.35E+00 2.25E+00 1.41E+00 8.65E-01 5.33E-01 3.35E-01 2.17E-01 1.45E-01 9.94E-02 2.27E-02	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 3.37E-01 1.06E-01 6.53E-02 4.23E-02 2.87E-02	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.07E-01 5.45E-02 3.08E-02 1.86E-02 1.23E-02 8.37E-03	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.15E-02 1.61E-02 9.20E-03 5.67E-03 2.53E-03 5.61E-04	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03 5.10E-03 2.91E-03 1.76E-03 7.71E-04	1.10E+01 4.74E+00 1.05E+00 9.49E-02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 5.65E-04 3.58E-04 2.37E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 9.0 10.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.30E+00 2.96E+00 2.27E+00 1.66E+00 1.40E+00	2KEV 4.43E+00 4.40E+00 4.32E+00 3.54E+00 3.02E+00 2.49E+00 1.60E+00 1.60E+01 7.66E-01 2.39E-01 9.13E-02	4KEV 4.69E+00 4.63E+00 4.65E+00 3.85E+00 2.32E+00 1.68E+00 1.20E+00 1.99E-01 4.28E-01 3.10E-01 7.80E-02 2.79E-02	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.41E+00 5.33E-01 3.35E-01 2.17E-01 1.45E-01 9.94E-02 2.27E-02 8.09E-03 1.92E-03 1.92E-03	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 1.83E-01 1.06E+01 6.53E-02 4.23E-02 2.87E-02 6.59E-03 2.35E-03 3.35E-04	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.075E-02 3.08E-02 1.88E-02 1.88E-02 1.88E-03 1.93E-03 6.69E-04 1.44E-04	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.15E-02 9.20E-03 5.67E-03 3.70E-03 2.53E-03 5.61E-04 1.87E-04 1.86E-05 3.86E-05	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03 5.10E-03 2.91E-03 1.78E-03 1.75E-03 1.75E-04 1.62E-04 5.23E-05 1.06E-05	1.10E+01 4.74E+00 1.05E+00 9.49E-02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 5.65E-04 3.58E-04 4.80E-05 6.32E-06 3.07E-06
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 35.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.60E+00 3.30E+00 2.61E+00 2.27E+00 1.95E+00 1.40E+00 5.80E-01 2.54E-01 1.25E-01 1.25E-02 4.22E-02	2KEV 4.43E+00 4.40E+00 4.32E+00 3.54E+00 3.54E+00 2.01E+00 1.60E+00 1.25E+00 7.66E-01 2.39E-01 9.13E-01 9.13E-02 4.23E-02 1.25E-02 1.33E-02	4KEV 4.69E+00 4.63E+00 4.46E+00 3.85E+00 3.07E+00 2.32E+00 1.20E+00 1.20E+01 3.10E-01 7.80E-02 2.79E-02 1.26E-02 3.91E-03	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.41E+01 5.33E-01 3.35E-01 2.17E-01 1.45E-01 9.94E-02 2.27E-02 8.09E-03 3.67E-03 1.92E-03 1.11E-03	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 3.37E-01 1.06E-01 6.53E-02 4.23E-02 4.23E-02 6.59E-03 2.35E-03 1.05E-03 3.03E-04	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.07E-01 5.45E-02 1.88E-02 1.88E-02 1.88E-03 1.93E-03 6.69E-04 2.89E-04 2.89E-04 8.01E-05	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.15E-02 1.61E-02 9.20E-03 5.67E-03 3.70E-03 2.53E-03 5.61E-04 1.87E-04 7.86E-05 2.12E-05	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03 5.10E-03 1.78E-03 7.71E-04 1.62E-04 5.23E-05 2.17E-05 5.80E-06	1.10E+01 4.74E+00 1.05E+02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 3.58E-04 2.37E-04 4.80E-05 1.53E-05 6.32E-06 1.67E-06
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 35.0 40.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.60E+00 3.30E+00 2.96E+00 2.27E+00 1.66E+00 1.40E+00 5.80E-01 2.54E-01 1.25E-01 6.93E-02 2.75E-02	2KEV 4.43E+00 4.40E+00 4.32E+00 3.02E+00 3.02E+00 2.01E+00 1.60E+00 1.25E+00 9.81E-01 7.66E-01 2.32E-02 4.23E-02 4.23E-02 8.51E-03	4KEV 4.69E+00 4.63E+00 4.65E+00 3.87E+00 2.32E+00 1.20E+00 8.46E-01 5.99E-01 4.28E-01 3.10E-01 7.80E-02 2.79E-02 1.26E-02 6.66E-03 2.47E-03	8KEV 4.89E+00 4.77E+00 3.35E+00 2.25E+00 1.41E+00 8.65E-01 3.35E-01 2.17E-01 1.45E-01 9.94E-02 2.27E-02 8.09E-03 3.67E-03 1.11E-03 6.88E-04	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 3.37E-01 1.83E-01 1.06E-01 4.23E-02 2.87E-02 6.59E-03 2.35E-03 1.05E-03 5.35E-04 1.84E-04	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.5E+01 2.34E-01 1.07E-01 5.45E-02 1.88E-02 1.88E-02 1.88E-02 1.89E-03 6.69E-04 2.89E-04 1.44E-04 8.01E-05 4.81E-05	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.15E-02 9.20E-03 5.67E-03 3.70E-03 2.53E-03 5.61E-04 1.87E-04 7.86E-05 3.6E-05 1.27E-05	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03 5.10E-03 1.76E-03 7.71E-04 1.62E-04 5.23E-05 2.17E-05 1.06E-05 3.45E-06	1.10E+01 4.74E+00 1.05E+00 9.49E-02 2.13E-02 7.49E-03 3.32E-03 1.69E-04 3.58E-04 2.37E-04 4.80E-05 1.53E-05 6.32E-06 3.07E-06 9.86E-07
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 35.0 45.0	1KEV 4.05E+00 4.04E+00 4.04E+00 3.84E+00 3.60E+00 2.96E+00 2.27E+00 1.95E+00 1.40E+00 5.80E-01 1.25E-01 6.93E-02 4.22E-02 2.75E-02	2KEV 4.43E+00 4.40E+00 4.30E+00 3.54E+00 3.54E+00 2.49E+00 1.60E+00 1.60E+00 1.66E-01 2.39E-01 2.39E-02 2.26E-02 1.33E-02 3.54E-03 3.54E-01	4KEV 4.69E+00 4.65E+00 3.85E+00 3.85E+00 1.20E+00 8.46E-01 5.99E-01 4.28E-01 3.10E-01 7.80E-02 2.79E-02 1.26E-02 6.66E-03 3.91E-03 1.65E-03	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.45E-01 5.33E-01 2.17E-01 9.94E-02 2.27E-02 8.09E-03 3.67E-03 1.92E-03 1.92E-03 1.92E-03 4.52E-04	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 3.37E-01 1.06E-01 6.53E-02 4.23E-02 2.87E-02 6.59E-03 1.05E-03 5.35E-04 3.05E-04 1.84E-04 1.19E-04	5.47E+00 4.94E+00 3.72E+00 1.55E+00 1.55E+01 2.34E-01 1.07E-01 5.45E-02 1.88E-02 1.23E-02 8.37E-03 1.93E-03 6.69E-04 2.89E-04 1.44E-04 8.01E-05 3.08E-05	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.15E-02 1.61E-02 1.67E-03 3.70E-03 2.53E-03 5.61E-04 1.87E-04 7.86E-05 3.86E-05 1.27E-05 8.05E-06	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03 5.10E-03 1.78E-03 1.15E-03 7.71E-04 1.62E-04 5.23E-05 2.17E-05 1.06E-05 5.80E-06 2.16E-06	1.10E+01 4.74E+00 1.05E+00 9.49E-02 2.13E-02 7.49E-03 3.32E-03 1.69E-04 3.58E-04 2.37E-04 4.80E-05 1.53E-05 6.32E-06 3.07E-06 9.86E-07 6.21E-07
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 45.0 45.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.60E+00 2.96E+00 2.27E+00 1.95E+00 1.40E+00 5.80E-01 1.255E-01 6.93E-02 4.22E-02 2.75E-02 1.90E-02 1.37E-02	2KEV 4.43E+00 4.40E+00 4.30E+00 3.54E+00 3.54E+00 1.60E+00 1.25E+00 7.66E-01 2.39E-01 9.13E-02 4.23E-02 1.33E-02 8.51E-03 4.07E-03	4KEV 4.69E+00 4.63E+00 4.63E+00 3.85E+00 3.07E+00 2.32E+00 1.68E+01 5.99E+01 4.28E-01 7.80E-01 7.80E-02 2.79E-02 1.26E-02 6.66E-03 3.91E-03 2.47E-03 1.65E-03	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 1.41E+00 3.35E-01 3.35E-01 3.35E-01 1.45E-01 9.94E-02 2.27E-02 8.09E-03 1.92E-03 1.92E-03 1.92E-03 1.18E-04 4.52E-04 3.10E-04	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 1.83E-01 1.06E-01 6.53E-02 4.23E-02 4.23E-02 3.35E-03 3.35E-04 3.03E-04 1.84E-04 8.05E-05	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.045E-02 3.08E-02 1.88E-02 1.88E-02 1.88E-03 1.93E-03 6.69E-04 1.44E-04 8.01E-05 4.81E-05 2.07E-05	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.15E-02 9.20E-03 5.67E-03 3.70E-03 2.53E-03 5.61E-04 1.86E-05 2.12E-05 1.27E-05 1.27E-06 5.38E-06	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.66E-03 5.10E-03 1.78E-03 1.75E-04 1.62E-04 5.23E-05 1.06E-05 5.80E-06 3.45E-06 1.45E-06	1.10E+01 4.74E+00 1.05E+00 9.49E-02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 5.65E-04 3.58E-04 4.80E-05 6.32E-06 3.07E-06 1.67E-06 9.86E-07 4.10E-07
ANGLE 0.5 1.0 0.5 1.0 2.0 4.0 5.0 7.0 8.0 9.0 10.0 25.0 20.0 25.0 40.0 25.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 4	1KEV 4.05E+00 4.04E+00 3.06E+00 3.30E+00 2.61E+00 2.7E+00 1.95E+00 1.40E+00 5.80E-01 2.54E-01 6.25E-02 4.22E-02 2.75E-02 1.37E-02 7.87E-03	2KEV 4.43E+00 4.40E+00 4.32E+00 3.54E+00 3.54E+00 2.401E+00 1.25E+00 7.66E+01 2.32E-01 2.32E-02 4.23E-02 4.23E-02 4.23E-02 4.23E-03 5.75E-03 4.07E-03 2.27E-03	4KEV 4.69E+00 4.63E+00 4.46E+00 3.85E+00 3.87E+00 1.20E+00 1.20E+01 5.99E-01 4.28E-01 3.10E-01 7.80E-02 2.79E-02 1.26E-03 3.91E-03 2.47E-03 1.15E-03 6.5E-03 3.91E-03 6.5E-03 3.91E-03 6.5E-03 3.91E-03 6.65E-03 6.23E-04	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.44E+01 5.33E-01 3.35E-01 2.17E-01 1.45E-01 2.47E-02 2.27E-02 8.09E-03 3.67E-03 1.11E-03 6.88E-04 4.52E-04 1.63E-04	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 1.06E-01 6.53E-02 4.23E-02 4.23E-02 4.23E-02 6.59E-03 1.05E-03 1.05E-04 1.05E-04 1.05E-04 1.05E-04 1.05E-04 1.05E-05 4.14E-05	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.07E-02 3.08E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.93E-03 6.69E-04 2.89E-04 2.89E-05 4.81E-05 2.07E-05 1.05E-05	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.15E-02 1.61E-02 9.20E-03 5.67E-03 3.70E-03 2.53E-03 5.61E-04 1.87E-04 7.86E-05 2.12E-05 1.27E-05 8.05E-06 2.71E-06	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03 5.10E-03 1.78E-03 1.15E-03 7.71E-04 1.62E-04 5.23E-05 2.17E-05 5.80E-06 3.45E-06 2.16E-06 7.20E-07	1.10E+01 4.74E+00 1.05E+02 2.13E-02 7.49E-03 3.32E-03 1.69E-04 3.58E-04 3.58E-04 2.37E-04 4.80E-05 1.67E-06 9.82E-06 1.67E-06 9.82E-07 4.10E-07 2.00E-07
ANGLE 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 45.0 45.0 50.0 70.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.60E+00 2.96E+00 2.27E+00 1.95E+00 1.40E+00 5.80E-01 1.255E-01 6.93E-02 4.22E-02 2.75E-02 1.90E-02 1.37E-02	2KEV 4.43E+00 4.40E+00 4.30E+00 3.54E+00 3.54E+00 1.60E+00 1.25E+00 7.66E-01 2.39E-01 9.13E-02 4.23E-02 1.33E-02 8.51E-03 4.07E-03	4KEV 4.69E+00 4.63E+00 4.63E+00 3.85E+00 3.07E+00 2.32E+00 1.68E+01 5.99E+01 4.28E-01 7.80E-01 7.80E-02 2.79E-02 1.26E-02 6.66E-03 3.91E-03 2.47E-03 1.65E-03	8KEV 4.89E+00 4.77E+00 4.43E+00 3.35E+00 1.41E+00 3.35E-01 3.35E-01 3.35E-01 1.45E-01 9.94E-02 2.27E-02 8.09E-03 1.92E-03 1.92E-03 1.92E-03 1.18E-04 4.52E-04 3.10E-04	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 1.83E-01 1.06E-01 6.53E-02 4.23E-02 4.23E-02 3.35E-03 3.35E-04 3.03E-04 1.84E-04 8.05E-05	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.045E-02 3.08E-02 1.88E-02 1.88E-02 1.88E-03 1.93E-03 6.69E-04 1.44E-04 8.01E-05 4.81E-05 2.07E-05	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.15E-02 9.20E-03 5.67E-03 3.70E-03 2.53E-03 5.61E-04 1.86E-05 2.12E-05 1.27E-05 1.27E-06 5.38E-06	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.66E-03 5.10E-03 1.78E-03 1.75E-04 1.62E-04 5.23E-05 1.06E-05 5.80E-06 3.45E-06 1.45E-06	1.10E+01 4.74E+00 1.05E+00 9.49E-02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 5.65E-04 3.58E-04 4.80E-05 6.32E-06 3.07E-06 1.67E-06 9.86E-07 4.10E-07
ANGLE 0.5 1.0 0.5 1.0 2.0 4.0 5.0 7.0 8.0 9.0 10.0 25.0 20.0 25.0 40.0 25.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 4	1KEV 4.05E+00 4.04E+00 3.84E+00 3.50E+00 2.96E+00 2.27E+00 1.95E+00 1.40E+00 5.80E-01 2.54E-01 1.25E-01 6.93E-02 2.75E-02 1.91E-02 7.87E-03 5.02E-03	2KEV 4.43E+00 4.40E+00 4.32E+00 3.02E+00 3.02E+00 2.01E+00 1.60E+00 1.25E+00 9.81E-01 7.66E-01 2.32E-02 4.23E-02 4.23E-02 4.25E-03 5.75E-03 4.07E-03 4.07E-03 4.07E-03 4.07E-03 4.07E-03 4.07E-03 4.07E-03 4.07E-03	4KEV 4.69E+00 4.63E+00 4.65E+00 3.87E+00 2.32E+00 1.20E+00 8.46E-01 5.99E-01 4.28E-01 3.10E-01 7.80E-02 2.79E-02 1.26E-02 3.91E-03 2.47E-03 1.55E-03 1.55E-03 3.74E-04	8KEV 4.89E+00 4.77E+00 4.77E+00 3.35E+00 2.25E+00 1.41E+01 5.33E-01 2.17E-01 9.94E-02 2.27E-03 3.67E-03 1.11E-03 1.11E-04 4.52E-04 3.10E-04 4.52E-04	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 3.37E-01 1.83E-01 1.06E-01 4.23E-02 2.87E-02 2.87E-02 2.35E-04 1.05E-04 1.19E-04 8.05E-04 1.19E-04 8.05E-05 2.39E-05	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.07E-02 3.08E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.93E-03 1.93E-04 1.44E-04 4.81E-05 3.08E-05 2.07E-05 6.03E-06	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.15E-02 9.20E-03 5.67E-03 3.70E-03 2.53E-03 5.61E-04 7.86E-05 3.86E-05 1.27E-05 8.05E-06 5.38E-06 1.54E-06	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03 5.10E-03 1.76E-03 7.71E-04 1.62E-04 5.23E-05 2.17E-05 1.06E-06 3.45E-06 2.18E-06 1.45E-06 1.45E-07 4.01E-07	1.10E+01 4.74E+00 1.05E+02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 3.58E-04 2.37E-04 4.80E-05 1.53E-05 6.32E-06 3.07E-06 9.86E-07 4.10E-07 4.10E-07 1.09E-07
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ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 35.0 45.0 50.0 60.0 70.0 10.0	1KEV 4.05E+00 4.04E+00 3.8E+00 3.8E+00 3.60E+00 2.96E+00 2.61E+00 2.7E+00 1.95E+00 1.4DE+00 5.80E-01 1.25E-01 6.93E-02 4.22E-02 2.75E-02 7.87E-03 5.02E-03 2.57E-03 1.99E-03 1.99E-03	2KEV 4.43E+00 4.40E+00 4.30E+00 3.04E+00 3.04E+00 2.01E+00 1.60E+00 1.60E+00 1.25E+00 2.33E-01 2.32E-02 1.33E-02 3.75E-03 4.07E-03 1.41E-04 5.08E-04	4KEV 4.69E+00 4.63E+00 3.85E+00 3.85E+00 1.25E+00 1.20E+00 8.46E-01 5.99E-01 4.28E-01 7.80E-02 1.26E-02 1.26E-02 1.26E-03 3.10E-03 1.15E-03 1.15E-03 1.15E-04 1.70E-04 1.25E-04 1.25E-04 1.25E-04 1.25E-04 1.25E-04	8KEV 4.89E+00 4.77E+00 4.77E+00 4.47E+00 3.35E+00 2.25E+00 1.465E-01 5.33E-01 2.17E-01 9.94E-02 2.27E-03 3.67E-03 1.92E-03 1.92E-03 1.92E-04 1.63E-04 1.63E-04 1.63E-04 1.63E-05 4.19E-05 3.04E-05 2.33E-05	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54FE-01 1.06E-01 6.53E-02 2.87E-02 6.55E-02 2.87E-02 6.55E-03 3.35E-04 3.05E-04 3.05E-04 3.05E-04 3.05E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.14E-05 4.15E-05 4.16E-05	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.045E-02 3.08E-02 1.88E-02 1.837E-03 4.37E-03 4.93E-04 1.44E-04 8.01E-05 4.01E-05 4.01E-05 2.07E-05 6.03E-06 2.56E-06	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.161E-02 9.20E-03 5.67E-03 3.70E-03 2.53E-03 5.61E-04 1.87E-05 3.86E-05 2.12E-05 8.05E-06 5.38E-06 2.71E-06 1.54E-07 4.54E-07 4.54E-07	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03 5.10E-03 1.78E-03 1.15E-04 1.62E-04 5.23E-05 1.06E-05 5.80E-06 3.45E-06 1.45E-06 7.20E-07 4.01E-07 4.01E-07 1.63E-07	1.10E+01 4.74E+00 1.05E+02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 5.65E-04 3.37E-04 4.80E-05 6.32E-06 3.07E-06 1.67E-06 1.67E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-08 4.21E-08
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 15.0 25.0 40.0 45.0 60.0 70.0 80.0 100.0 110.0	1KEV 4.05E+00 4.04E+00 4.00E+00 3.84E+00 3.60E+00 2.96E+00 2.66E+00 1.95E+00 1.66E+00 1.40E+00 5.80E-01 1.25E-01 6.93E-02 1.90E-02 1.90E-02 1.97E-03 3.48E-03 2.57E-03 1.99E-03 1.62E-03 1.99E-03 1.62E-03	2KEV 4.43E+00 4.40E+00 4.30E+00 3.02E+00 3.02E+00 2.01E+00 1.60E+00 1.25E+00 7.66E-01 2.33E-02 4.23E-02 4.23E-02 4.25E-03 4.07E-03 2.47E-03 4.07E-03 4.07E-04 5.75E-04 5.75E-04 5.75E-04 5.75E-04	4KEV 4.69E+00 4.63E+00 4.63E+00 3.85E+00 3.85E+00 1.62E+00 1.26E+01 5.99E-01 4.28E-01 7.80E-02 2.76E-02 1.26E-02 1.26E-03 3.91E-03 2.47E-03 1.55E-03 1.55E-04 3.74E-04 1.70E-04	8KEV 4.89E+00 4.77E+00 4.77E+00 3.35E+00 2.25E+00 1.41E+00 3.35E-01 3.35E-01 2.17E-01 1.45E-02 2.27E-03 1.92E-03 1.92E-03 1.92E-03 1.92E-03 1.92E-04 4.52E-04 9.54E-05 4.19E-05 3.04E-05 1.86E-05	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 6.54E-01 1.83E-01 1.06E-01 6.53E-02 4.23FE-02 6.53E-02 4.28FE-03 3.35E-04 3.35E-04 3.35E-04 1.84E-05 4.14E-05	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.075E-02 3.08E-02 1.88E-02 1.88E-02 1.88E-03 1.93E-03 6.69E-04 1.44E-04 8.01E-05 4.81E-05	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.15E-02 9.20E-03 5.67E-03 3.70E-03 2.53E-03 5.61E-04 7.86E-05 3.86E-05 1.27E-05 8.05E-06 5.38E-06 1.54E-07 4.54E-07	7.61E+00 5.02E+00 1.98E+00 2.81E-01 6.44E-02 2.22E-02 9.86E-03 5.10E-03 1.76E-03 7.71E-04 1.62E-04 5.23E-05 2.17E-05 1.06E-05 2.17E-05 1.06E-06 3.45E-06 1.45E-06 1.45E-07 4.01E-07 1.63E-07	1.10E+01 4.74E+00 1.05E+02 2.13E-02 7.49E-03 3.32E-03 1.69E-03 9.42E-04 3.58E-04 2.37E-04 4.80E-05 1.53E-05 6.32E-06 3.07E-06 9.86E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.21E-08 4.21E-08 2.85E-08
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ANGLE 0.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1KEV 4.05E+00 4.04E+00 3.05E+00 3.30E+00 2.61E+00 2.61E+00 2.27E+00 1.95E+00 1.66E+01 1.25E-01 1.25E-01 1.25E-01 2.57E-02 1.37E-02 1.37E-03 3.48E-03 2.57E-03 1.07E-03 1.07E-03 1.07E-03 1.07E-03 1.07E-03 1.07E-03 1.07E-03	2KEV 4.43E+00 4.40E+00 4.32E+00 3.54E+00 3.54E+00 1.25E+00 1.25E+00 1.25E+00 1.25E-01 2.3133E-02 4.226E-02 8.5757E-03 3.445E-04 4.275E-04	4KEV 4.69E+00 4.63E+00 4.65E+00 3.85E+00 3.85E+00 1.20E+00 1.20E+01 5.99E-01 4.28E-01 7.80E-02 1.26E-02 1.26E-03 3.91E-03 1.15E-03 1.15E-03 1.15E-04 1.70E-04 1.70E-05 6.69E-05 5.67E-05 5.67E-05 5.67E-05 5.67E-05 5.67E-05	8KEV 4.89E+00 4.77E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.41E+01 5.33E-01 3.35E-01 1.45E-01 1.45E-01 9.94E-02 2.27E-03 3.67E-03 1.91E-03 6.88E-04 4.52E-04 3.10E-05 4.19E-05 6.10E-05 1.86E-05 1.86E-05 1.34E-05 1.11E-05	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 3.37E-01 1.83E-01 1.83E-01 1.653E-02 2.87E-02 2.87E-02 2.87E-02 3.35E-03 1.05E-03 1.05E-04 4.22E-04 4.22E-05 1.52E-05 1.52E-05 1.52E-05 1.52E-06 2.32E-06	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.07E-02 3.08E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.93E-04 2.89E-04 8.01E-05 4.81E-	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.151E-02 1.61E-03 5.67E-03 3.70E-03 5.67E-03 5.67E-03 5.61E-04 7.86E-05 2.12FE-05 8.05E-05 1.27E-06 8.05E-06 2.71E-06 1.54E-07 4.54E-07 4.54E-07 4.54E-07 1.65E-07	7.61E+00 5.02E+00 1.98E+01 6.44E-02 2.8E-02 9.86E-03 1.76E-03 1.76E-03 1.15E-04 1.62E-05 5.80E-06 3.45E-06 3.45E-06 7.20E-07 4.62E-07 4.046E-07 1.63E-07 1.14E-07 8.28E-08 5.07E-08 4.28E-08 5.07E-08 4.28E-08 3.35E-08	1.10E+01 4.74E+00 1.05E+02 2.13E-02 7.49E-03 3.32E-03 1.69E-04 3.58E-04 3.58E-04 3.58E-04 4.80E-05 6.32E-06 6.32E-06 6.32E-06 7.410E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 6.21E-08 4.21E-08 4.21E-08 4.35E-09 6.35E-09 6.35E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 25.0 45.0 60.0 70.0 120.0 120.0 120.0 150.0 150.0 150.0	1KEV 4.05E+00 4.04E+00 4.04E+00 3.84E+00 3.60E+00 2.96E+00 2.27E+00 1.95E+00 1.40E+00 5.80E-01 1.25E-01 6.93E-02 4.22E-02 2.75E-02 1.37E-02 7.87E-03 3.48E-03 2.57E-03 1.99E-03 1.62E-03 1.37E-03 1.99E-03 1.97E-03 1.97E-03	2KEV 4.43E+00 4.40E+00 4.30E+00 3.04E+00 3.04E+00 2.01E+00 1.60E+00 1.60E+00 1.25E-01 2.313E-02 2.326E-02 1.33E-02 2.326E-03 4.275E-03 4.275E-03 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04 4.275E-04	4KEV 4.69E+00 4.64E+00 3.85E+00 3.87E+00 2.32E+00 1.68E+00 1.20E+00 8.46E-01 5.99E-01 4.28E-01 7.80E-02 2.79E-02 1.26E-03 3.91E-03 1.15E-04 1.70E-04 1.70E-04 1.70E-05 5.95E-05 5.95E-05 4.51E-05 4.51E-05	8KEV 4.89E+00 4.77E+00 4.77E+00 3.35E+00 2.25E+00 1.45E+01 5.33E-01 2.145E-01 9.94E-02 2.09E-03 3.67E-03 1.91E-03 1.91E-03 1.91E-03 1.91E-03 1.91E-05 1.16E-05 1.36E-05	16KEV 5.11E+00 4.86E+00 2.52E+00 1.31E+00 3.37E-01 1.83E-01 1.83E-01 1.83E-02 2.87E-02 2.87E-02 3.37E-03 3.35E-02 3.35E-04 3.35E-04 3.35E-04 3.35E-04 3.35E-04 3.35E-05 7.35E-05 1.84E-04 8.05E-05 1.84E-06 1.84E-06	5.47E+00 4.94E+00 3.72E+00 5.81E-01 2.34E-01 1.07E-02 3.08E-02 1.88E-02 1.83F-03 1.93E-03 1.93E-04 1.44E-04 8.01E-05 2.07E-05 1.05E-06 3.75E-06 1.39E-06 1.39E-06 1.39E-06 1.39E-06 1.39E-07 6.37E-07 6.91E-07 6.91E-07 6.91E-07 6.91E-07 6.91E-07 6.91E-07 6.91E-07 6.91E-07 6.91E-07	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.161E-02 9.20E-03 5.67E-03 3.753E-03 5.61E-04 7.86E-05 3.86E-05 2.12E-05 8.05E-06 5.38E-06 2.71E-06 5.57E-07 4.54E-07 4.54E-07 2.18E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07 1.63E-07	7.61E+00 5.02E+00 1.98E+00 1.98E-01 6.44E-02 2.22E-02 9.86E-03 1.78E-03 1.78E-03 1.75E-04 1.62E-05 2.17E-05 1.06E-05 5.80E-06 2.18E-06 1.45E-06 7.20E-07 1.63E-07 1.63E-07 1.14E-07 8.28E-08 6.317E-08 5.07E-08 3.74E-08 3.74E-08 3.74E-08 3.00E-08	1.10E+01 4.74E+00 1.05E+02 2.13E-02 7.49E-03 3.32E-03 1.69E-04 5.65E-04 2.37E-04 4.80E-05 6.32E-06 3.07E-06 1.53E-07 4.10E-07 2.00E-07 4.10E-07 2.00E-07 4.10E-07 2.00E-07 6.54E-08 4.21E-08 2.85E-08 2.85E-08 2.85E-08 2.85E-09 6.95E-09 6.25E-09 6.25E-09 6.25E-09
ANGLE 0.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1KEV 4.05E+00 4.04E+00 3.05E+00 3.30E+00 2.61E+00 2.61E+00 2.27E+00 1.95E+00 1.66E+01 1.25E-01 1.25E-01 1.25E-01 2.57E-02 1.37E-02 1.37E-03 3.48E-03 2.57E-03 1.07E-03 1.07E-03 1.07E-03 1.07E-03 1.07E-03 1.07E-03 1.07E-03	2KEV 4.43E+00 4.40E+00 4.32E+00 3.54E+00 3.54E+00 1.25E+00 1.25E+00 1.25E+00 1.25E-01 2.3133E-02 4.226E-02 8.5757E-03 3.445E-04 4.275E-04	4KEV 4.69E+00 4.63E+00 4.65E+00 3.85E+00 3.85E+00 1.20E+00 1.20E+01 5.99E-01 4.28E-01 7.80E-02 1.26E-02 1.26E-03 3.91E-03 1.15E-03 1.15E-03 1.15E-04 1.70E-04 1.70E-05 6.69E-05 5.67E-05 5.67E-05 5.67E-05 5.67E-05 5.67E-05	8KEV 4.89E+00 4.77E+00 4.77E+00 4.43E+00 3.35E+00 2.25E+00 1.41E+01 5.33E-01 3.35E-01 1.45E-01 1.45E-01 9.94E-02 2.27E-03 3.67E-03 1.91E-03 6.88E-04 4.52E-04 3.10E-05 4.19E-05 6.10E-05 1.86E-05 1.86E-05 1.34E-05 1.11E-05	16KEV 5.11E+00 4.86E+00 4.20E+00 2.52E+00 1.31E+00 3.37E-01 1.83E-01 1.83E-01 1.653E-02 2.87E-02 2.87E-02 2.87E-02 3.35E-03 1.05E-03 1.05E-04 4.22E-04 4.22E-05 1.52E-05 1.52E-05 1.52E-05 1.52E-06 2.32E-06	5.47E+00 4.94E+00 3.72E+00 1.55E+00 5.81E-01 2.34E-01 1.07E-02 3.08E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.88E-02 1.93E-04 2.89E-04 8.01E-05 4.81E-	6.15E+00 5.01E+00 2.96E+00 7.42E-01 7.21E-02 3.151E-02 1.61E-03 5.67E-03 3.70E-03 5.67E-03 5.67E-03 5.61E-04 7.86E-05 2.12FE-05 8.05E-05 1.27E-06 8.05E-06 2.71E-06 1.54E-07 4.54E-07 4.54E-07 4.54E-07 1.65E-07	7.61E+00 5.02E+00 1.98E+01 6.44E-02 2.8E-02 9.86E-03 1.76E-03 1.76E-03 1.15E-04 1.62E-05 5.80E-06 3.45E-06 3.45E-06 7.20E-07 4.62E-07 4.046E-07 1.63E-07 1.14E-07 8.28E-08 5.07E-08 4.28E-08 5.07E-08 4.28E-08 3.35E-08	1.10E+01 4.74E+00 1.05E+02 2.13E-02 7.49E-03 3.32E-03 1.69E-04 3.58E-04 3.58E-04 3.58E-04 4.80E-05 6.32E-06 6.32E-06 6.32E-06 7.410E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 4.10E-07 6.21E-08 4.21E-08 4.21E-08 4.35E-09 6.35E-09 6.35E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09 6.36E-09

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

			,	,	1				
				OXYGEN	. Z=8				
ANGLE	1KEV	2KEV	4K E V	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
0.0	3.10E+00	3.47E+00	3.73E+00	3.92E+00	4.12E+00	4.41E+00	4.97E+00	6.16E+00	8.88E+00
0.5	3.09E+00	3.45E+00	3.69E+00	3.84E+00	3.96E+00	4.07E+00	4.23E+00	4.43E+00	4.52E+00
1.0	3.06E+00	3.40E+00	3,58E+00	3.62E+00	3.53E+00	3.26E+00	2.775+00	2.05E+00	1.23E+00
2.0	2.97E+00	3.20E+00	3.19E+00	2.91E+00	2.34E+00	1.58E+00	8.50E-01	3.58E-01	1.27E-01
3.0	2.92E+00	2.90E+0B	2.66E+00	2.10F+00	1.35E+00	6.74E-01	2.62E-01	8.62E-02	2.80E-02
4.0	2.63E+00	2.55E+00	2.11E+00	1.42E+00	7.39E-01	2.95E-01	9.51E-02	2.95E-02	9.66E-03
5.0	2.41E+00	2.18E+00	1.62E+00	9.34E-01	4.08E-01	1.40E-01	4.21E-02	1.28E-02	4.25E-03
5.0	2.17E+00	1.83€+00	1.21E+00	6.10E-01	2.33E-01	7.26E-02	2.13E-02	6.56E-03	2.16E-03
7.0	1.94E+00	1.51E+00	8.99E-01	4.01E-01	1.39E-01	4.11E-02	1.20E-02	3.73E-03	1.21E-03
8.0	1.71E+00	1.23E+00	6.65E-01	2.698-01	8.64E-02	2.50E-02	7.34E-03	2.28E-03	7.28E-04
9.0	1.49E+00	9.946-01	4.92E-01	1.84E-01	5.635-02	1.61E-02	4.77E-03	1.47E-03	4.63E-04
10.0	1.29E+00	8.01E-01	3.67E-01	1.29E-01	3.82E-02	1.09E-02	3.24E-03	9.90E-04	3.08E-04
		0 00= 01							
15.0	5.998-01	2.80E-01	9.99E-02	3.00E-02	8.56E-03	2.48E-03	7.21E-04	2.10E-04	6.27E-05
20.0	2.81E-01	1.12E-01	3.63E-02	1.05E-02	3.01E-03	8.58E-04	2.42E-04	6.83E-05	2.01E-05
25.0	1.44E-01	5.32E-02	1.64E-02	4.71E-03	1.34E-03	3.73E-04	1.02E-04	2.84E-05	8.28E-05
30.0	8.16E-02	2.87E-02	8.61E-03	2.46E-03	6.88E-04	1.87E-04	5.04E-05	1.39E-05	4.02E-06
35.0	5.05E-02	1.71E-02	5.02E-03	1.42E-03	3.90E-04	1.04E-04	2.78E-05	7.61E-06	2.19E-06
40.0	3.35E-02	1.09E-02	3.16E-03	3.84E-04	2.39E-04	6-28E-05	1.66E-05	4.52E-06	1.29E-06
45.0	2.34E-02	7.385-03	2.11E-03	5.82E-04	1.55E-04	4.02E-05	1.055-05	2.36E-06	8.15E-07
50.0	1.71E-02	5.23F-03	1.48E-03	4.01E-04	1.05E-04	2.71E-05	7.06E-06	1.90E-06	5.38E-07
60.0	9.99E=03	2.915-03	8.02E-04	2.12E-04	5.42E-05	1.38E-05	3.56E-06	9.42E-07	2.63E-07
70.0	6.44E-03	1.81E-03	4.85E-04	1.25E-04	3.14E-05	7.91E-06	2.02E-06	5.28E-07	1.44E-07
80.0	4.49E-03	1.22E-03	3.18E-04	8.01E-05	1.99E-05	4.97E-06	1.26E-06	3.24E-07	8.60E-05
90.0	3.34E-03	8.77E-04	2.23E-04	5.51E-05	1.36E-05	3.36E-06	8.40E-07	2.13E-07	5.53E-08
188.0	2.61E-03	6-65E-04	1.65E+04	4.02E-05	9.81E-06	2 615-86	E 97E-07	4 405-07	7 725 10
110.0	2.13E+03	5.27E-04			7.46E-06	2.41E-06	5.97E+07	1.486-07	3.74E-08
120.0	1.81E-03	4.35E-04	1.28E-04 1.03E-04	3.08E-05 2.47E-05	5.95E-06	1.82E-06 1.44E-06	4.46E-07 3.50E-07	1.08E-07	2.64E-08
130.0	1.59E-03	3.72E-04	8.69E-05	2.06E-05	4.93E-06			8.33E-08	1.94E-08
140.0	1.43E=03	3.28E-04	7.57E-05	1.78E-05	4.93E-06	1.19E-06	2.85E-07	6.71E-08	1.50E-08
150.0	1.32E-03	2.98E-04	6.80E-05	1.59E-05	3.79E-06	1.02E-06	2.43E-07 2.14E-07	5.57E-08	1.22E-08
160.0	1.26E-03	2.79E-04	6.31E-05	1.47E-05	3.50E-06	9.08E-07 8.35E-07		4.79E+08	1.04E-08
170.0	1.21E-03	2.68E-04	6.04E-05	1.415-05	3.34E-06		1.96E-07	4-35E-08	9.02E-09
180.0	1.20E-03	2.65E-04	5.94E-05	1.38E-05	3.28E-06	7-94E-07 7-84E-07	1.85E-07	4.16E-08	8.15E-09
TOTAL	5.27E-01	3.01E-01	1.63E-01		4.50E-02		1.83E-07	4.13E-08	7.81E-09
TRANS	5.90E+02	1.86E-02	5.62E-03	8.62E-02 1.64E-03	4.74E-04	2.38E-02 1.36E-04	1.30E-02 3.96E-05	7.62E-03 1.19E-05	4.94E-03 3.75E-06
			7.045-03						
		11002 02			70176 07		0.000	20232 03	37.34. 00
		14002 02			7.77. 07		01,02 0,	20232 03	37.34. 00
		11002 32					01702 07	10132 03	37734. 00
ANGLE	1 KEV	2KEV		FLUORI	NE, Z=9				
ANGLE	1 KEV	2KEV	4KEV	FLUORI 8KEV	NE, Z=9 16KEV	SZKEV	64KEV	128KEV	25 6 KE V
				FLUORI 8KEV 3•20E+00	NE• Z=9 16KEV 3•38E+00	32KEV 3-63E+00	64KEV 4.10E+00	128KEV 5-07E+00	256KEV 7•32E+00
ANGLE 0.0	1KEV 2.41E+00	2KEV 2•75E+00	4KEV 3.01E+00	FLUORI 8KEV 3.20E+00 3.15E+00	NE, Z=9 16KEV 3.38E+00 3.27E+00	32KEV 3.63E+00 3.40E+00	64KEV 4.10E+00 3.59E+00	128KEV 5.07E+00 3.88E+00	256KEV 7.32E+00 4.20E+00
ANGLE 0.0 0.5	1KEV 2.41E+00 2.41E+00	2KEV 2.75E+00 2.74E+00 2.71E+00	4KEV 3.01E+00 2.98E+00 2.91E+00	FLUORI 8KEV 3.20E+00 3.15E+00 3.00E+00	NE. Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00	32KEV 3.63E+00 3.40E+00 2.84E+00	64KEV 4.10E+00 3.59E+00 2.53E+00	128KEV 5.07E+00 3.88E+00 2.03E+00	256KEV 7.32E+00 4.20E+00 1.36E+00
ANGLE 0.0 0.5 1.0	1KEV 2.41E+00 2.41E+00 2.39E+00	2KEV 2.75E+00 2.74E+00	4KEV 3.01E+00 2.98E+00	FLUORI 8KEV 3.20E+00 3.15E+00	NE, Z=9 16KEV 3.38E+00 3.27E+00	32KEV 3.63E+00 3.40E+00 2.84E+00 1.55E+00	64KEV 4.10E+00 3.59E+00	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01
ANGLE 0.0 0.5 1.0 2.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00	2KEV 2.75E+00 2.74E+00 2.71E+00 2.58E+00	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00	FLUORI 8KEV 3.20E+00 3.15E+00 3.00E+00 2.50E+00	NE. Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 2.12E+00	32KEV 3.63E+00 3.40E+00 2.84E+00 1.55E+00 7.33E-01	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E+01 3.14E-01	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02
ANGLE 0.0 0.5 1.0 2.0 3.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00	2KEV 2.75E+00 2.74E+00 2.71E+00 2.58E+00 2.38E+00	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00 2.28E+00	FLUORI 8KEV 3.20E+00 3.15E+00 3.00E+00 2.50E+00 1.91E+00	NE, Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 2.12E+00 1.33E+00	32KEV 3.63E+00 3.40E+00 2.84E+00 1.55E+00 7.33E-01 3.46E-01	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E-01 3.14E-01 1.21E-01	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 3.79E-02	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 1.22E-02
ANGLE 0.0 0.5 1.0 2.0 3.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 2.11E+00	2KEV 2.75E+00 2.74E+00 2.71E+00 2.58E+00 2.38E+00 2.14E+00	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00 2.28E+00 1.88E+00	FLUORI 8KEV 3-20E+00 3-15E+00 3-00E+00 2-50E+00 1-91E+00 1-37E+00	NE, Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 2.12E+00 1.33E+00 7.87E-01	32KEV 3.63E+00 3.40E+00 2.84E+00 1.55E+00 7.33E-01	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E+01 3.14E-01	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 5.31E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 2.11E+00 1.96E+00	2KEV 2.75E+00 2.74E+00 2.71E+00 2.58E+00 2.38E+00 2.14E+00 1.88E+00	4KEV 3.01E+00 2.98E+00 2.91E+00 2.28E+00 1.88E+00 1.51E+00	FLUORI 8KEV 3-20E+00 3-15E+00 3-00E+00 2-50E+00 1-91E+00 1-37E+00 9-54E-01	NE. Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 2.12E+00 1.33E+00 7.87E-01 4.62E-01	32KEV 3.63E+00 3.40E+00 2.84E+00 1.55E+00 7.33E-01 3.46E-01 1.72E-01	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E+01 3.14E+01 1.21E-01 5.40E-02 2.73E-02	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 3.79E-02 1.64E-02	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 1.22E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.80E+00	2KEV 2.75E+00 2.74E+00 2.71E+00 2.58E+00 2.38E+00 1.88E+00 1.88E+00	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00 1.88E+00 1.51E+00 1.18E+00	FLUORI 8KEV 3-20E+00 3-15E+00 3-00E+00 2-50E+00 1-91E+00 1-37E+00 9-54E-01	NE. Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 2.12E+00 1.33E+00 4.62E-01 2.75E-01	32KEV 3.63E+00 3.40E+00 2.84E+00 1.55E+00 7.33E-01 1.72E-01 9.19E-02	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E-01 3.14E-01 1.21E-01 5.40E-02	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 1.79E-02 1.64E-02 8.27E-03	256KEV 7-32E+00 4-20E+00 1-36E+00 1-62E-01 3-58E-02 1-22E-02 5-31E-03 2-69E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.80E+00 1.63E+00	2KEV 2.75E+00 2.74E+00 2.71E+00 2.58E+00 2.38E+00 2.14E+00 1.68E+00 1.37E+00	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00 2.28E+00 1.88E+00 1.18E+00 9.05E-01	FLUORI 8KEV 3-20E+00 3-15E+00 3-90E+00 2-50E+00 1-91E+00 1-37E+00 9-54E-01 4-49E-01	NE, Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 2.12E+00 1.33E+00 7.87E-01 4.62E-01 2.75E-01 1.69E-01	32KEV 3-63E+00 3-40E+00 2-84E+00 1-55E+00 7-33E-01 3-46E-01 1-72E-01 9-19E-02 5-26E-02	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E-01 3.14E-01 1.21E-01 5.40E-02 2.73E-02	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 3.79E-02 1.64E-02 8.27E-03 4.67E-03	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 1.22E-02 5.31E-03 1.51E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.63E+00 1.67E+00	2KEV 2.75E+00 2.74E+00 2.58E+00 2.38E+00 2.14E+00 1.62E+00 1.37E+00 1.15E+00	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00 1.88E+00 1.18E+00 1.18E+00 9.05E-01 6.93E-01	FLUORI 8KEV 3.20E+00 3.15E+00 2.50E+00 1.91E+00 1.37E+00 9.54E-01 4.49E-01 3.11E-01	NE • Z=9 16KEV 3.38E+00 3.27E+00 2.12E+00 1.33E+00 7.87E-01 4.62E-01 2.75E-01 1.69E-01 1.08E-01	32KEV 3-63E+00 3-40E+00 2-84E+00 1-55E+00 7-33E-01 3-46E-01 1-72E-01 9-19E-02 5-26E-02 3-21E-02	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E+01 3.14E+01 1.21E-01 5.40E-02 2.73E-02 1.53E-02 9.30E-03	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 3.79E-02 1.64E-02 8.27E-03 2.84E-03	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 1.22E-02 5.31E-03 2.69E-03 1.51E-03 9.11E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.80E+00 1.63E+00 1.30E+00	2KEV 2.75E+00 2.74E+00 2.71E+00 2.58E+00 2.38E+00 1.62E+00 1.62E+00 1.37E+00 9.58E-01 7.93E-01	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00 1.88E+00 1.51E+00 9.05E-01 6.93E-01 4.06E-01	FLUORI 8KEV 3-20E+00 3-15E+00 3-00E+00 2-50E+00 1-91E+00 1-97E+00 1-	NE, Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 2.12E+00 1.33E+00 7.87E-01 4.62E-01 1.69E-01 1.08E-01 7.11E-02 4.86E-02	32KEV 3-63E+00 3-40E+00 2-84E+00 1-55E+00 7-33E-01 3-46E-01 1-72E-01 9-19E-02 3-21E-02 2-06E-02 1-39E-02	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E-01 1.21E-01 5.40E-02 2.73E-02 1.53E-02 1.53E-03 6.00E-03	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 3.79E-02 1.64E-02 8.27E-03 4.67E-03 2.84E-03 1.83E-03	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 1.22E-02 5.31E-03 2.69E-03 1.51E-03 9.11E-04 5.81E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.80E+00 1.63E+00 1.47E+00 1.30E+00 1.15E+00	2KEV 2.75E+00 2.74E+00 2.71E+00 2.58E+00 2.38E+00 1.62E+00 1.37E+00 1.37E+00 1.55E+01 7.93E-01 3.06E-01	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00 2.28E+00 1.88E+00 1.18E+00 1.18E+01 5.29E-01 4.06E-01 1.20E-01	FLUORI 8KEV 3-20E+00 3-15E+00 3-00E+00 2-50E+00 1-91E+00 1-91E+00 1-54E-01 4-49E-01 3-11E-01 2-18E-01	NE. Z=9 16KEV 3.38E+DO 3.27E+DO 2.98E+DO 2.12E+DO 1.33E+DO 7.87E-O1 4.62E-O1 2.75E-O1 1.69E-O1 7.11E-O2	32KEV 3.63E+00 3.40E+00 2.84E+00 1.55E+00 7.33E-01 3.46E-01 1.72E-01 9.19E-02 3.21E-02 2.06E-02	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E-01 1.21E-01 5.40E-02 2.73E-02 1.53E-02 1.53E-03 6.00E-03	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 3.79E-02 1.64E-02 8.27E-03 4.67E-03 2.84E-03 1.83E-03	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 1.22E-02 5.31E-03 2.69E-03 1.51E-03 9.11E-04 5.81E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.63E+00 1.63E+00 1.30E+00 1.15E+00	2KEV 2.75E+00 2.74E+00 2.58E+00 2.38E+00 2.14E+00 1.88E+00 1.37E+00 1.37E+00 1.793E-01 3.06E-01 1.30E-01	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00 1.88E+00 1.18E+00 1.18E+00 1.51E+01 1.29E-01 4.06E-01 1.20E-01 4.49E-02	FLUORI 8KEV 3.20E+00 3.15E+00 2.50E+00 1.91E+00 1.37E+00 9.54E-01 4.49E-01 3.11E-01 2.18E-01 1.56E-01 3.79E-02 1.33E-02	NE. Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 1.33E+00 7.87E-01 4.62E-01 1.69E-01 1.69E-01 7.11E-02 4.86E-02 1.08E-02 3.77E-03	32KEV 3.63E+00 3.40E+00 2.84E+00 1.55E+00 7.33E-01 3.46E-01 1.72E-01 9.19E-02 3.21E-02 2.06E-02 1.39E-02	64KEV 4.10E+00 3.59E+00 2.53E+00 3.14E-01 1.21E-01 5.40E-02 2.73E-02 9.30E-03 6.00E-03 4.06E-03	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 3.79E-02 1.64E-02 8.27E-03 2.84E-03 1.83E-03 1.24E-03	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 1.22E-02 5.31E-03 2.69E-03 1.51E-03 9.11E-04 5.81E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.11E+00 1.96E+00 1.63E+00 1.47E+00 1.30E+00 1.15E+00	2KEV 2.75E+00 2.74E+00 2.58E+00 2.38E+00 2.14E+00 1.88E+00 1.37E+00 1.37E+00 1.37E+01 7.93E-01 3.06E-01 1.30E-01 6.30E-02	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00 1.51E+00 1.51E+00 1.51E+01 5.29E-01 4.06E-01 1.20E-01 4.49E-02 2.05E-02	FLUORI 8KEV 3-20E+00 3-15E+00 3-00E+00 2-50E+00 1-91E+00 1-91E+00 1-91E+01 4-49E-01 3-11E-01 2-18E-01 1-56E-01 3-79E-02 1-33E-02 5-92E-03	NE. Z=9 16KEV 3.38E+D0 3.27E+D0 2.98E+D0 1.33E+D0 1.33E+D0 1.33E+D1 1.62E-D1 1.69E-D1 1.08E-D1 7.11E-D2 4.86E-D2 1.08E-02 1.08E-03 1.67E-03	32KEV 3.63E+00 3.40E+00 2.84E+00 1.55E+00 7.33E-01 1.72E-01 9.19E-02 5.26E-02 2.21E-02 2.06E-02 1.39E-02 3.10E-03 1.07E-03 4.67E-04	64KEV 4.10E+00 3.59E+00 2.53E+00 3.14E-01 1.21E-01 5.40E-02 2.73E-02 9.30E-03 6.00E-03 4.06E-03	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 3.79E-02 1.64E-02 8.27E-03 2.84E-03 1.83E-03 1.24E-03	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 1.22E-02 5.31E-03 2.69E-03 1.51E-03 9.11E-04 5.81E-04 3.87E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 30.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.80E+00 1.63E+00 1.47E+00 1.30E+00 1.15E+00 5.85E-01 2.93E-01 8.99E-02	2KEV 2.75E+00 2.74E+00 2.71E+00 2.58E+00 2.38E+00 1.62E+00 1.62E+00 1.37E+00 1.15E+00 9.58E-01 7.93E-01 3.06E-01 1.30E-01 1.30E-02 3.46E-02	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00 1.88E+00 1.51E+00 1.18E+00 9.05E-01 6.93E-01 4.06E-01 1.20E-01 4.49E-02 2.05E-02 1.08E-02	FLUORI 8KEV 3.20E+00 3.15E+00 2.50E+00 1.91E+00 1.37E+00 9.54E-01 4.49E-01 3.11E-01 2.18E-01 1.56E-01 3.79E-02 1.33E-02	NE. Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 1.33E+00 7.87E-01 4.62E-01 1.69E-01 1.69E-01 7.11E-02 4.86E-02 1.08E-02 3.77E-03	32KEV 3.63E+00 3.40E+00 2.84E+00 1.55E+00 7.33E-01 3.46E-01 1.72E-01 9.19E-02 3.21E-02 2.06E-02 1.39E-02	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E+01 3.14E+01 1.21E-01 5.40E-02 2.73E-02 9.30E-03 6.00E-03 4.06E-03 8.99E-84 3.03E+04	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 3.79E-02 1.64E-02 8.27E-03 2.84E-03 1.83E-03 1.24E-03	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 1.22E-02 5.31E-03 2.69E-03 1.51E-03 9.11E-04 5.81E-04 3.87E-04 7.93E-05 2.54E-05
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 15.0 20.0 35.0 35.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.80E+00 1.47E+00 1.30E+00 1.15E+00 5.85E-01 2.93E-01 8.99E-02 5.65E-02	2KEV 2.75E+00 2.74E+00 2.58E+00 2.38E+00 2.14E+00 1.88E+00 1.37E+00 1.37E+00 1.37E+01 7.93E-01 3.06E-01 1.30E-01 6.30E-02	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00 1.51E+00 1.51E+00 1.51E+01 5.29E-01 4.06E-01 1.20E-01 4.49E-02 2.05E-02	FLUORI 8KEV 3-20E+00 3-15E+00 2-50E+00 1-91E+00 1-37E+00 9-54E-01 4-49E-01 3-11E-01 2-18E-01 1-56E-01 3-79E-02 1-33E-02 3-79E-03 3-77E-03	NE. Z=9 16KEV 3.38E+D0 3.27E+D0 2.98E+D0 1.33E+D0 1.33E+D0 1.33E+D1 1.62E-D1 1.69E-D1 1.08E-D1 7.11E-D2 4.86E-D2 1.08E-02 1.08E-03 1.67E-03	32KEV 3.63E+00 3.40E+00 2.84E+00 1.55E+00 7.33E-01 1.72E-01 9.19E-02 5.26E-02 2.21E-02 2.06E-02 1.39E-02 3.10E-03 1.07E-03 4.67E-04	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E-01 1.21E-01 5.40E-02 2.73E-02 1.53E-02 1.53E-03 6.00E-03 4.06E-03 8.99E-84 1.29E-04	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 3.79E-02 1.64E-02 8.27E-03 4.67E-03 2.84E-03 1.83E-03 1.24E-03 2.64E-04 8.63E-05 3.60E-05	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 3.58E-03 2.69E-03 1.51E-03 9.11E-04 5.81E-04 3.87E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 25.0 25.0 25.0 25.0 40.	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.32E+00 1.96E+00 1.63E+00 1.63E+00 1.15E+00 5.85E-01 2.93E-01 5.65E-02 3.81E-02	2KEV 2.75E+00 2.74E+00 2.71E+00 2.58E+00 2.38E+00 1.62E+00 1.62E+00 1.37E+00 1.15E+00 9.58E-01 7.93E-01 3.06E-01 1.30E-01 1.30E-02 3.46E-02	4KEV 3.01E+00 2.98E+00 2.91E+00 2.65E+00 1.88E+00 1.51E+00 1.18E+00 9.05E-01 6.93E-01 4.06E-01 1.20E-01 4.49E-02 2.05E-02 1.08E-02	FLUORI 8KEV 3-20E+00 3-15E+00 3-00E+00 2-50E+00 1-91E+00 1-91E+00 1-94E+01 3-74E-01 3-11E-01 2-18E-01 1-56E-01 3-79E-02 1-33E-02 1-33E-02 1-35-03 3-07E-03	NE. Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 2.12E+00 1.33E+00 7.87E-01 4.62E-01 1.08E-01 7.11E-02 4.86E-02 1.08E-02 3.77E-03 8.59E-04	32KEV 3.63E+00 3.40E+00 2.84E+00 1.55E+00 7.33E-01 1.72E-01 9.19E-02 5.26E-02 2.06E-02 1.39E-02 3.10E-03 1.07E-03 4.67E-04 2.35E-04	64KEV 4.10E+00 3.59E+00 2.53E+00 3.14E-01 1.21E-01 5.40E-02 1.53E-02 9.30E-03 6.00E-03 8.99E-04 3.03E-04 6.38E-05	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 1.10E-02 8.27E-03 4.67E-03 2.84E-03 1.24E-03 2.64E-04 8.63E-05 3.60E-05 1.76E-05	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 1.22E-02 5.31E-03 9.11E-04 5.81E-04 5.87E-04 7.93E-05 1.05E-05 5.10E-06
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ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 25.0 25.0 30.0 45.0 45.0 45.0 45.0 45.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.31E+00 1.96E+00 1.63E+00 1.63E+00 1.5E+00 1.55E-01 2.93E-01 1.55E-01 2.93E-02 3.81E-02 2.71E-02 1.20E-02 7.94E-03	2KEV 2.75E+00 2.74E+00 2.58E+00 2.58E+00 2.14E+00 1.62E+00 1.37E+00 1.37E+00 1.37E+01 3.06E-01 1.30E-01 6.30E-02 2.46E-02 2.48E-02 1.34E-02 9.14E-03 3.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03	4KEV 3.01E+00 2.98E+00 2.98E+00 2.65E+00 1.88E+00 1.18E+00 1.18E+00 1.18E+01	FLUORI 8KEV 3-20E+00 3-15E+00 3-00E+00 1-91E+00 1-91E+00 1-37E+00 6-54E-01 3-11E-01 2-18E-01 1-56E-01 3-79E-02 1-33E-03 3-87E-03 1-10E-03 7-28E-04 5-03E-04 1-58E-04	NE • Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 1.32E+00 1.33E+00 1.4.62E-01 1.69E-01 1.69E-01 1.68E-02 4.86E-02 3.77E-03 1.67E-03 1.67E-03 1.67E-04 1.93E-04 1.93E-04 1.93E-04	32KEV 3-63E+00 3-40E+00 2-84E+00 1-55E+00 1-55E+01 3-46E-01 1-72E-02 3-21E-02 2-06E-02 1-39E-02 3-10E-03 4-67E-04 2-35E-04 7-94E-05 3-45E-05 1-75E-05 1-75E-05 1-75E-05 1-75E-05 1-75E-05 1-75E-05	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E-01 1.21E-01 5.40E-02 2.73E-02 9.30E-03 6.00E-03 4.06E-03 8.99E-04 1.29E-04 1.29E-05 1.34E-05 1.34E-05 1.34E-06 2.57E-06	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 1.76E-02 8.27E-03 4.67E-03 1.83E-03 1.84E-03 1.84E-03 1.76E-05 3.60E-05 1.76E-05 9.67E-06 3.64E-06 2.42E-06	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 5.31E-03 2.69E-03 1.51E-04 3.87E-04 3.87E-04 7.93E-05 5.10E-06 2.77E-06 1.64E-06 1.64E-06 6.84E-07
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 9.0 10.0 15.0 20.0 35.0 45.0 45.0 60.0 70.0 80.0 80.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.11E+00 1.96E+00 1.63E+00 1.63E+00 1.30E+00 1.55E-01 2.93E-01 1.55E-01 8.99E-02 3.81E-02 2.71E-02 2.00E-02 1.20E-02 1.20E-03 5.62E-03	2KEV 2.75E+00 2.74E+00 2.58E+00 2.58E+00 2.14E+00 1.62E+00 1.37E+00 1.15E+00 9.58E+01 7.93E-01 3.06E-01 1.30E-01 6.30E-02 3.46E-02 1.34E-02 9.14E-03 6.50E-03 3.64E-03 1.54E-03	4KEV 3.01E+00 2.98E+00 2.98E+00 2.65E+00 2.28E+00 1.88E+00 1.18E+00 1.18E+00 1.51E+00 1.18E+00	FLUORI 8KEV 3.20E+00 3.15E+00 2.50E+00 2.50E+00 1.91E+00 1.37E+00 6.54E-01 4.49E-01 3.11E-01 2.18E-01 1.56E-01 3.79E-02 5.92E-03 3.07E-03 1.10E-03 7.28E-04 5.03E-04 1.56E-04 1.52E-04 1.52E-04	NE. Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 1.33E+00 7.87E-01 4.62E-01 1.69E-01 1.69E-01 1.69E-01 1.69E-02 3.77E-03 4.86E-02 4.86E-02 4.86E-02 4.86E-02 4.86E-02 2.77E-03 4.86E-02 2.77E-03 2.99E-04 4.86E-02	32KEV 3-63E+00 3-40E+00 2-84E+00 1-55E+00 1-53E-01 1-72E-01 9-19E-02 3-21E-02 2-06E-02 1-39E-02 3-10E-03 1-07E-03 4-67E-04 2-35E-04 1-34E-05 1-75E-05	64KEV 4.10E+00 3.59E+00 2.53E+01 3.14E-01 1.21E-01 1.21E-02 1.53E-02 1.53E-02 1.53E-02 1.53E-03 6.00E-03 4.06E-03 8.99E-04 1.29E-04 1.29E-05 1.34E-05 1.34E-05 1.34E-05 1.34E-06 4.52E-06	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 3.79E-02 1.10E-01 3.79E-02 1.64E-03 2.84E-03 1.83E-03 1.24E-03 2.64E-04 8.63E-05 1.76E-05 9.67E-06 5.75E-06 5.75E-06 5.42E-06 1.20E-06	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 1.22E-02 5.31E-03 2.69E-03 1.51E-04 5.81E-04 3.87E-04 7.93E-05 1.05E-05 1.05E-06 2.77E-06 1.64E-06 1.03E-07 3.37E-07
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 25.0 25.0 30.0 45.0 45.0 45.0 45.0 45.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.31E+00 1.96E+00 1.63E+00 1.63E+00 1.5E+00 1.55E-01 2.93E-01 1.55E-01 2.93E-02 3.81E-02 2.71E-02 1.20E-02 7.94E-03	2KEV 2.75E+00 2.74E+00 2.58E+00 2.58E+00 2.14E+00 1.62E+00 1.37E+00 1.37E+00 1.37E+01 3.06E-01 1.30E-01 6.30E-02 2.46E-02 2.48E-02 1.34E-02 9.14E-03 3.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03 2.46E-03	4KEV 3.01E+00 2.98E+00 2.98E+00 2.65E+00 1.88E+00 1.18E+00 1.18E+00 1.18E+01	FLUORI 8KEV 3-20E+00 3-15E+00 3-00E+00 1-91E+00 1-91E+00 1-37E+00 6-54E-01 3-11E-01 2-18E-01 1-56E-01 3-79E-02 1-33E-03 3-87E-03 1-10E-03 7-28E-04 5-03E-04 1-58E-04	NE • Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 1.32E+00 1.33E+00 1.4.62E-01 1.69E-01 1.69E-01 1.68E-02 4.86E-02 3.77E-03 1.67E-03 1.67E-03 1.67E-04 1.93E-04 1.93E-04 1.93E-04	32KEV 3-63E+00 3-40E+00 2-84E+00 1-55E+00 1-55E+01 3-46E-01 1-72E-02 3-21E-02 2-06E-02 1-39E-02 3-10E-03 4-67E-04 2-35E-04 7-94E-05 3-45E-05 1-75E-05 1-75E-05 1-75E-05 1-75E-05 1-75E-05 1-75E-05	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E-01 1.21E-01 5.40E-02 2.73E-02 9.30E-03 6.00E-03 4.06E-03 8.99E-04 1.29E-04 1.29E-05 1.34E-05 1.34E-05 1.34E-06 2.57E-06	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 3.79E-02 1.10E-01 3.79E-02 1.64E-03 2.84E-03 1.83E-03 1.84E-03 2.84E-03 2.84E-03 1.84E-05 3.66E-05 3.76E-06 5.75E-06 3.75E-06 3.64E-06 4.26E-06 6.72E-07	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.58E-02 1.22E-02 5.31E-03 2.69E-03 1.51E-04 3.87E-04 7.93E-05 1.05E-05 1.05E-05 1.05E-06 1.64E-06 1.64E-06 1.64E-06 1.64E-07 1.85E-07
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 9.0 15.0 20.0 35.0 40.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.80E+00 1.63E+00 1.47E+00 1.30E+00 1.15E+00 5.85E-01 2.93E-01 8.99E-02 3.81E-02 2.71E-02 2.00E-02 7.94E-03 5.62E-03 4.23E-03	2KEV 2.75E+00 2.74E+00 2.74E+00 2.58E+00 2.38E+00 1.62E+00 1.62E+00 1.37E+00 1.15E+00 9.58E-01 3.06E-01 3.06E-01 3.06E-01 3.06E-02 2.08E-02 2.34E-02 9.14E-03 3.46E-03 3.64E-03 3.64E-03 3.64E-03 3.64E-03 3.64E-03 3.64E-03	4KEV 3.01E+00 2.98E+00 2.98E+00 2.65E+00 2.65E+00 1.88E+00 1.18E+00 1.05E-01 4.06E-01 4.05E-01 4.05E-02 6.28E-03 3.95E-03 3.95E-03 1.84E-03 1.84E-03 1.84E-03 1.84E-03	FLUORI 8KEV 3-20E+00 3-15E+00 3-15E+00 2-50E+00 1-91E+00 1-91E+00 1-37E+01 4-49E-01 3-11E-01 2-18E-01 3-79E-02 1-92E-03 1-77E-03 1-77E-03 1-77E-03 1-77E-03 1-77E-04 1-58E-04 1-58E-04 1-58E-04 1-58E-04 1-58E-04 1-58E-04	NE • Z=9 16KEV 3.38E+00 3.27E+00 2.98E+00 1.33E+00 1.33E+01 1.69E-01 1.08E-01 1.08E-02 1.69E-01 1.08E-02 1.67E-03 1.67E-03 1.67E-03 1.67E-04 1.95E-04 1.95E-04 1.95E-04 1.95E-05 1.73E-05	32KEV 3-63E+00 3-40E+00 2-84E+00 1-55E+01 1-72E-01 3-46E-01 1-72E-02 3-21E-02 2-06E-02 3-21E-02 2-06E-02 3-21E-02 3-10E-03 1-07E-03 4-67E-04 1-32E-04 1-32E-04 1-32E-05 1-75E-05	64KEV 4.10E+00 3.59E+00 2.53E+01 3.14E-01 1.21E-02 1.53E-02 2.73E-02 2.73E-02 3.0E-03 4.06E-03 4.06E-03 8.99E-04 1.29E-04 1.29E-05 1.34E-05 1.34E-05 1.34E-05 1.4E-05 1.4E-05 1.4E-05 1.4E-05 1.4E-05 1.4E-05 1.4E-05 1.4E-05 1.4E-06 1.4E-06 1.60E-06 1.60E-06	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 3.79E-02 1.64E-02 4.67E-03 2.84E-03 1.83E-03 1.24E-03 2.64E-04 8.63E-05 1.76E-05 9.67E-06 5.75E-06 5.75E-06 2.42E-06 1.20E-07 4.13E-07 2.72E-07	256KEV 7.32E+00 4.20E+00 1.36E+01 3.58E-02 1.22E-03 1.22E-03 1.51E-03 9.11E-04 5.81E-04 5.87E-05 1.05E-05 1.05E-05 1.05E-05 1.05E-06 2.77E-06 1.64E-06 6.84E-07 1.85E-07 1.85E-07 1.96E-08
ANGLE 0.05 1.00 2.00 3.00 4.00 5.00 7.00 8.00 25.00 25.00 450.00 450.00 70.00 80.00 90.00	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 2.11E+00 1.96E+00 1.63E+00 1.63E+00 1.5E+00 1.55E-01 2.93E-01 1.55E-01 2.93E-01 2.93E-02 3.81E-02 2.71E-02 1.20E-02 1.20E-02 1.20E-03 4.23E-03 3.34E-03	2KEV 2.75E+00 2.74E+00 2.58E+00 2.58E+00 2.14E+00 1.62E+00 1.52E+00 1.37E+00 1.37E+01 3.06E-01 1.30E-02 2.46E-02 2.46E-02 2.46E-03 3.46E-03	4KEV 3.01E+00 2.98E+00 2.98E+00 2.65E+00 1.88E+00 1.18E+00 1.18E+00 1.18E+01 6.93E-01 4.06E-01 4.06E-01 4.49E-02 2.08E-03 3.95E-03 3.95E-03 3.95E-03 4.06E-04 4.02E-04 4.02E-04	FLUORI 8KEV 3.20E+00 3.15E+00 3.05E+00 1.91E+00 1.91E+00 1.97E+00 1.97E+00 1.97E+01 3.11E-01 2.18E-01 1.56E-01 3.79E-02 1.92E-03 1.77E-03 1.10E-03 7.28E-04 1.58E-04 1.58E-04 1.58E-04 1.58E-05 5.13E-05	NE • 12 = 9 16KEV 3.38E+00 3.27E+00 2.98E+00 1.32E+00 1.32E+00 1.4.62E-01 1.62E-01 1.68E-01 1.68E-02 1.68E-02 1.68E-02 3.77E-03 1.67E-03 1.68E-04 2.99E-04 1.33E-04 2.99E-04 1.33E-05 1.73E-05	32KEV 3-63E+00 3-40E+00 1-53E+00 1-53E+01 3-46E+01 1-72E-01 9-19E-02 3-21E-02 2-06E-02 1-39E-02 3-10E-03 1-07E-04 1-35E-04 1-94E-05 3-45E-05 1-01E-05 6-32E-06 4-27E-06 3-07E-06	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E+01 1.21E-01 5.473E-02 2.73E-02 9.30E-03 6.00E-03 4.06E-03 8.99E-04 1.29E-04 1.29E-05 1.34E-05 1.34E-05 1.34E-06 1.60E-06 1.60E-06 1.60E-06 1.67E-06 7.57E-07	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 3.79E-02 1.10E-01 3.79E-02 1.64E-03 2.84E-03 1.83E-03 1.24E-03 2.64E-04 8.63E-05 1.76E-05 1.76E-05 5.75E-06 3.64E-06 4.20E-06 6.72E-07 4.13E-07 2.72E-07 1.88E-07	256KEV 7.32E+00 4.20E+00 1.36E+00 1.62E-01 3.68E-02 1.22E-02 5.31E-03 2.69E-03 1.51E-04 3.87E-04 7.93E-05 2.54E-05 1.05E-05 2.77E-06 1.64E-06 1.64E-07 1.85E-07 1.10E-07 6.99E-08 4.70E-08
ANGLE 0.0 0.5 1.0 0.5 1.0 0.0 3.0 4.0 5.0 0.0 10.0 15.0 25.0 45.0 50.0 45.0 50.0 45.0 10.0 10.0 110.0	1KEV 2.41E+00 2.41E+00 2.33E+00 2.33E+00 2.33E+00 2.11E+00 1.96E+00 1.63E+00 1.63E+00 1.47E+00 1.30E+00 1.15E+00 5.85E-01 2.93E-01 1.55E-01 8.99E-02 3.81E-02 2.71E-02 2.00E-02 7.94E-03 5.62E-03 4.23E-03 3.34E-03 2.75E-03	2KEV 2.75E+00 2.74E+00 2.58E+00 2.58E+00 2.14E+00 1.62E+00 1.37E+00 1.37E+00 1.37E+01 3.06E-01 1.30E-01 6.30E-02 3.46E-02 1.34E-02 9.14E-03 3.64E-03 2.27E-03 1.54E-03 1.54E-03 8.47E-04 6.76E-04	4KEV 3.01E+00 2.98E+00 2.98E+00 2.65E+00 1.88E+00 1.18E+00 1.18E+00 1.18E+01	FLUORI 8KEV 3.20E+00 3.15E+00 2.50E+00 1.91E+00 1.91E+00 1.37E+00 6.54E-01 3.11E-01 2.18E-01 1.56E-01 3.79E-02 3.92E-03 3.07E-03 1.10E-03 7.28E-04 1.58E-04 1.58E-04 1.58E-04 5.03E-04 1.58E-04 5.03E-04 5.03E-05 5.13E-05 5.13E-05 5.13E-05 5.13E-05	NE. 2=9 16KEV 3.38E+00 3.27E+00 2.98E+00 1.33E+00 7.87E-01 4.62E-01 1.69E-01 1.69E-01 1.69E-02 3.77E-03 1.67E-03 1.67E-03 1.67E-03 1.67E-04 1.93E-04 1.93E-04 1.93E-04 1.93E-05 1.73E-05 1.25E-05 1.73E-05	32KEV 3-63E+00 3-40E+00 2-84E+00 1-53E+01 3-46E-01 1-72E-02 3-21E-02 2-06E-02 1-39E-02 3-10E-03 4-67E-04 2-35E-04 7-94E-05 3-45E-05 1-75E-05	64KEV 4.10E+00 3.59E+00 2.53E+00 9.15E+01 1.21E-01 5.43E-02 9.30E-03 6.00E-03 4.06E-03 8.99E+04 6.38E+05 2.11E-05 1.34E-05 8.96E-06 1.52E-06 1.52E-06 1.52E-06 1.52E-06 1.57E-06 1.57E-07 5.69E-07	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 3.79E-02 1.64E-02 8.27E-03 2.84E-03 1.83E-03 1.24E-03 2.64E-04 8.63E-05 3.60E-05 1.76E-06 5.75E-06 3.64E-06 6.72E-07 4.13E-07 2.72E-07 1.88E-07 1.88E-07 1.88E-07	256KEV 7.32E+00 4.20E+00 1.66E-01 1.62E-02 1.22E-02 5.31E-03 2.69E-03 1.51E-03 9.11E-04 5.81E-04 7.93E-05 1.05E-05 1.05E-05 1.05E-05 1.05E-06 1.64E-06 1.64E-07 1.64E-07 1.10E-07 6.99E-08 4.70E-08 3.34E-08
ANGLE 0.05 1.00 3.00 4.00 6.00 7.00 9.00 15.00 25.00 35.00 45.00 60.07 80.00 100.00 110.00 120.00	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.80E+00 1.63E+00 1.63E+00 1.5E+00 1.5E+00 1.5E+00 2.71E-02 2.71E-02 2.71E-02 2.71E-02 2.71E-02 2.71E-02 2.71E-02 2.71E-03 2.35E-03	2KEV 2.75E+00 2.74E+00 2.74E+00 2.58E+00 2.14E+00 1.682E+00 1.15E+00 9.58E-01 3.06E-01 3.06E-01 3.06E-02 2.08E-02 2.08E-02 2.08E-03 3.46E-03 3.46E-03 3.46E-03 3.46E-03 3.46E-03 3.46E-03 3.46E-03 3.64E-03	4KEV 3.01E+00 2.98E+00 2.98E+00 2.65E+00 1.88E+00 1.518E+00 9.05E-01 6.93E-01 4.06E-01 1.20E-01 4.49E-02 6.28E-03 3.95E-02 1.08E-03 1.08E-03 1.08E-03 2.64E-03 1.08E-03 2.64E-03 2.10E-04 2.83E-04	FLUORI 8KEV 3.20E+00 3.15E+00 3.15E+00 1.91E+00 1.37E+00 1.97E+00 1.37E+01 3.11E-01 2.18E-01 3.79E-01 3.77E-03 1.70E-03 1.77E-03 1.70E-03 1.70E-04 1.58E-04 1.58E-04 1.58E-04 1.58E-04 1.58E-05 3.94E-05 3.94E-05 3.94E-05	NE • 7 2 9 16KE V 3 38E + 00 3 27E + 00 2 98E + 00 1 33E + 00 1 4 62E - 01 1 69E - 01 1 69E - 01 1 69E - 02 2 3 77E - 02 2 3 77E - 02 3 6 59E - 04 4 88E - 04 2 99E - 04 1 95E - 04 1 95E - 04 1 95E - 05 1 73E - 05 1 73E - 05 7 59E - 06 7 59E - 06	32KEV 3-63E+00 3-40E+00 2-84E+00 1-53E-01 1-72E-01 9-19E-02 3-26E-02 2-06E-02 2-06E-02 3-10E-03 4-67E-04 1-32E-04 1-32E-04 1-32E-05 1-75E-05 3-45E-05 1-75E-05 3-45E-06 3-27E-06 3-27E-06 3-27E-06 3-27E-06 3-27E-06 3-27E-06 3-27E-06 3-27E-06 3-27E-06 3-27E-06 3-27E-06 3-27E-06 3-27E-06 3-27E-06	64KEV 4.10E+00 3.59E+00 2.59E+00 3.14E-01 1.21E-02 1.53E-02 9.30E-03 6.06E-03 4.06E-03 8.96E-05 3.14E-05 3.14E-01 1.24E-02 1.53E-02 9.30E-03 4.06E-03 8.96E-05 3.16E-05 1.24E-05 1.24E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-07 1.27E-07 1.27E-07 1.27E-07 1.27E-07 1.27E-07	128KEV 5.07E+00 3.88E+00 2.03E+00 4.27E-01 1.10E-01 3.79E-02 1.64E-03 4.67E-03 2.84E-03 1.83E-03 1.24E-03 2.64E-04 8.63E-05 1.76E-05 5.75E-06 3.64E-06 2.42E-06 1.20E-06 1.20E-06 1.20E-07 4.13E-07 1.88E-07 1.38E-07 1.06E-07	256KEV 7.32E+00 4.20E+00 1.66E-01 1.62E-02 1.22E-02 5.31E-03 1.51E-03 1.51E-04 3.87E-04 7.93E-05 1.05E-05 1.05E-05 1.05E-06 1.04E-06 1.05E-07 1.05E-07 1.10E-07 6.99E-08 4.70E-08 3.34E+08 2.50E-08
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ANGLE 0.0 5 1.0 0 0.5 1.0 0 3.0 0 5.0 0 7.0 0 9.0 0 15.0 0 25.0 0 45.0 0 45.0 0 60.0 0 70.0 0 120.0 0 120.0 0 120.0 0 120.0 0 120.0 0 150.0 0 160.0 0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.63E+00 1.63E+00 1.5E+00 1.5E+00 1.5E+00 2.38E-01 2.93E-01 2.97E-02 3.61E-02 2.71E-02 2.71E-02 2.71E-03 3.34E-03 2.35E-03 1.74E-03 1.74E-03 1.66E-03	2KEV 2.75E+00 2.74E+00 2.74E+00 2.58E+00 2.14E+00 1.682E+00 1.15E+00 1.15E+00 1.15E+00 1.30E-01 3.06E-01 3.06E-02 2.08E-02 2.14E+00 3.46E-02 1.34E-03 3.46E-03 3.46E-04 4.86E-04	4KEV 3.01E+00 2.98E+00 2.98E+00 2.65E+00 1.88E+00 1.518E+00 1.05E-01 6.93E-01 4.06E-01 1.20E-02 1.08E-03 3.96E-03 1.08E-03	FLUORI 8KEV 3.15E+00 3.15E+00 3.15E+00 1.91E+00 1.37E+00 1.97E+00 1.97E+00 1.37E+00 1.97E+00 1.37E+00 3.11E-01 3.11E-01 3.73E-03 1.77E-03 3.72E-03 3.72E-04 1.77E-03 1.77E-04 1.92E-04 1.92E-04 1.92E-05 3.94E-05 2.54E-05 2.54E-05 2.54E-05 2.54E-05 2.54E-05 2.54E-05 2.54E-05 2.54E-05 2.54E-05 2.54E-05 2.54E-05 2.54E-05 2.54E-05 2.54E-05 2.54E-05	NE • 16KE • 00 3.8E • 00 3.8E • 00 3.27E • 00 2.98E • 00 1.33E • 00 1.67E • 01 1.68E • 01 1.69E • 01 1.69E • 01 1.69E • 01 1.67E • 03 8.59E • 04 4.88E • 04 4.88E • 04 4.88E • 04 4.89E • 04 1.93E • 05 1.53E • 06 1.54E • 06 1.64E • 06 1.64E • 06	32KEV 3-63E+00 3-40E+00 2-84E+00 1-53E-01 1-72E-02 3-46E-01 1-72E-02 3-21E-02 2-06E-02 1-39E-02 3-10FE-03 4-67E-04 2-35E-04 1-34E-05 1-75E-05 3-45E-05 1-75E-05 3-27E-06 3-27E-06 3-27E-06 1-32E-06	64KEV 4.10E+00 3.59E+00 2.59E+00 3.14E-01 1.21E-02 1.53E-02 9.30E-03 6.06E-03 4.06E-03 8.96E-05 3.14E-06 4.06E-05 3.14E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-06 1.27E-07	128KEV 5.07E+00 3.88E+00 2.82E+00 4.27E-01 3.79E-02 1.64E-03 2.84E-03 1.83E-03 1.84E-03 2.84E-03 1.84E-05 1.76E-05 5.76E-06 3.60E-05 1.76E-06 3.64E-06 1.20E-06 1.20E-07 4.13E-07 1.38E-07 1.38E-07 1.38E-07 1.38E-07 1.56E-08 5.56E-08 5.56E-08 5.54E-08	256KEV 7.32E+00 4.20E+00 1.362E-01 3.58E-02 1.22E-03 1.51E-03 9.11E-04 5.81E-04 5.81E-04 7.93E-05 1.05E-05 1.05E-05 1.05E-06 2.77E-06 1.03E-06 6.84E-07 3.37E-07 1.10E-07 1.10E-07 1.10E-07 1.10E-08 3.34E-08 4.70E-08 1.51E-08
ANGLE 0.0 5.0 0 0.5 1.0 0 5.0 0 7.0 0 0 15.0 0 20.0 0 15.0 0 20.0 0 10.0 0 110.0 0 110.0 0 110.0 0 110.0 0 110.0 0 110.0 0 110.0 0 170	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.80E+00 1.63E+00 1.47E+00 1.30E+00 1.55E-01 2.93E-01 1.55E-01 2.93E-02 3.81E-02 2.71E-02 2.00E-02 1.20E-02 7.94E-03 5.62E-03 4.23E-03 2.75E-03 2.35E-03 2.75E-03 1.66E-03 1.66E-03 1.66E-03 1.66E-03	2KEV 2.75E+00 2.74E+00 2.74E+00 2.58E+00 2.14E+00 1.65E+00 1.65E+00 1.15E+00 1.58E+01 3.06E-01 3.06E-01 3.06E-02 2.14E+00 1.58E+00 1.58E+00 1.58E-01 3.06E-01 4.06E-01 4.06E-01 3.06E-01 4.06E-01 4.06E-01 3.06E-01 4.06E-01 4.06E-01 3.06E-01	4KE+00 2.98E+00 2.98E+00 2.65E+00 1.88E+00 1.518E+01 6.93E-01 5.92E-01 5.92E-01 1.29E-01 1.29E-02 2.08E-03 3.68E-03 3.68E-03 3.68E-03 3.68E-03 3.68E-03 3.68E-03 3.68E-04 4.08E-04 4.08E-04 4.08E-05 6.08E-05	FLEV 3.15E+000 3.15E+000 3.15E+000 1.37E+000 1.37E+000 1.37E+001 3.11E-001 3.11E-01 3.12E-01 3.12E-01 3.79E-02 3.79E-03 3.77E-03	NE • 16KE • 00 16KE • 00 3.38E • 00 3.27E • 00 2.12E • 00 1.32E • 00 1.32E • 01 1.62E • 01 1.08E • 01 1.08E • 01 1.08E • 02 3.67E • 04 4.88E • 05 5.32E • 06 4.88E • 06	32KEV 3-63E+00 3-40E+00 1-55E+00 1-55E+01 1-72E-01 1-72E-01 1-72E-02 2-06E-02 3-21E-02 2-06E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-03 4-67E-04 1-32E-04 7-94E-05 5-48E-05 1-75E-05 1-75E-05 1-75E-05 1-75E-06	64KEV 4.10E+00 3.59E+00 2.53E+01 3.14E-01 1.21E-02 1.52-02 1.53E-02 1.53E-02 1.53E-02 1.53E-03 6.06E-03 8.93E-04 1.23E-04 1.23E-05 1.24E-05 1.24E-05 1.25E-06 1.25E-06 1.25E-06 1.25E-06 1.25E-06 1.25E-06 1.25E-07 1.36E-06 1.37E-06 1.37E-07	128KEV 5.07E+00 3.88E+00 2.02E+01 1.10E-01 3.79E-02 1.64E-03 4.67E-03 2.84E-03 1.82E-03 1.62E-05 9.67E-06 5.75E-06 5.75E-06 5.75E-06 6.72E-07 4.13E-07 1.88E-07 1.38E-07 1.38E-07 1.38E-07 1.38E-07 1.38E-07 1.38E-08 6.19E-08 5.59E-08 5.59E-08 5.59E-08 5.59E-08 5.59E-08 5.59E-08 5.59E-08 5.59E-08	256KEV 7.32E+00 4.20E+00 1.362E-01 3.562E-02 1.22E-03 1.51E-03 9.11E-04 5.87E-04 5.87E-05 1.05E-05 1.05E-05 1.05E-05 1.05E-06 2.77E-06 1.64E-06 6.84E-07 1.85E-07 1.85E-07 1.85E-07 1.85E-07 1.85E-07 1.85E-08 1.70E-08
ANGLE 0.0 5.0 0.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.35E+00 1.96E+00 1.63E+00 1.47E+00 1.30E+00 1.15E+00 1.55E-01 2.93E-01 1.55E-02 2.00E-02 3.81E-02 2.71E-02 2.00E-02 7.94E-03 5.62E-03 4.23E-03 2.75E-03 4.23E-03 2.75E-03 1.74E-03 1.66E-03 1.59E-03	2KE+00 2.74E+00 2.74E+00 2.74E+00 2.58E+00 2.14E+00 1.62E+00 1.63E+00 1.55E+00 1.55E+00 1.55E+00 1.15E+00 1.37E+00	4KEV 3.01E+00 2.98E+00 2.98E+00 2.628E+00 1.88E+00 1.18E+00 1.18E+00 1.18E+01	FLEV 00 3.15E+00 03.15E+00 01.37E+00 11.37E+00 11.37E+00 11.37E+00 11.37E+00 11.37E-01 11.56E 01.56E-01 11.56E 01.56E-01 11.56E-01 11.56	NE	32KEV 3-63E+00 3-40E+00 2-84E+00 1-53E+01 3-46E+01 1-72E-02 3-46E+02 3-21E-02 2-05E-02 3-21E-04 7-94E-05 5-32E-06 4-27E-06 1-32E-06	64KEV 4.10E+00 3.59E+00 2.53E+001 1.21E-01 1.21E-02 2.73E-02 9.15E-03 6.06E-03 6.06E-03 8.96E-04 1.29E-04 1.29E-05 1.39E-06 1.29E-06 1.29E-06 1.29E-06 1.29E-07	128KEV 5.07E+00 3.88E+00 2.84E+00 4.27E-01 3.79E-02 1.64E-03 2.84E-03 1.84E-03 1.84E-03 2.84E-03 1.64E-05 3.66E-05 3.66E-05 9.675E-06 5.75E-06 5.75E-06 6.72E-07 4.13E-07 1.88E-07 1.88E-07 1.88E-07 1.88E-07 1.98E-08 5.99E-08 5.19E-08	256KEV 7.32E+00 4.20E+00 1.36E+01 1.62E-02 1.22E-02 5.31E-03 1.51E-04 5.81E-04 7.91E-04 5.87E-05 1.05E-05 1.05E-05 1.05E-06 2.77E-06 1.64E-07 1.85E-07 1.85E-07 1.95E-08 4.70E-08 3.34E-08 4.70E-08
ANGLE 0.0 5.0 0 0.5 1.0 0 5.0 0 7.0 0 0 15.0 0 20.0 0 15.0 0 20.0 0 10.0 0 110.0 0 110.0 0 110.0 0 110.0 0 110.0 0 110.0 0 110.0 0 170	1KEV 2.41E+00 2.41E+00 2.39E+00 2.33E+00 2.23E+00 1.96E+00 1.80E+00 1.63E+00 1.47E+00 1.30E+00 1.55E-01 2.93E-01 1.55E-01 2.93E-02 3.81E-02 2.71E-02 2.00E-02 1.20E-02 7.94E-03 5.62E-03 4.23E-03 2.75E-03 2.35E-03 2.75E-03 1.66E-03 1.66E-03 1.66E-03 1.66E-03	2KEV 2.75E+00 2.74E+00 2.74E+00 2.58E+00 2.14E+00 1.65E+00 1.65E+00 1.15E+00 1.58E+01 3.06E-01 3.06E-01 3.06E-02 2.14E+00 1.58E+00 1.58E+00 1.58E-01 3.06E-01 4.06E-01 4.06E-01 3.06E-01 4.06E-01 4.06E-01 3.06E-01 4.06E-01 4.06E-01 3.06E-01	4KE+00 2.98E+00 2.98E+00 2.68E+00 1.88E+00 1.518E+01 6.93E-01 5.92E-01 5.92E-01 1.29E-01 1.29E-02 2.08E-03 3.68E-03 3.68E-03 3.68E-03 3.68E-03 3.68E-03 3.68E-03 3.68E-04 4.08E-04 4.08E-04 4.08E-05 6.08E-05	FLEV 3.15E+000 3.15E+000 3.15E+000 1.37E+000 1.37E+000 1.37E+001 3.11E-001 3.11E-01 3.12E-01 3.12E-01 3.79E-02 3.79E-03 3.77E-03	NE • 16KE • 00 16KE • 00 3.38E • 00 3.27E • 00 2.12E • 00 1.32E • 00 1.32E • 01 1.62E • 01 1.08E • 01 1.08E • 01 1.08E • 02 3.67E • 04 4.88E • 05 5.32E • 06 4.88E • 06	32KEV 3-63E+00 3-40E+00 1-55E+00 1-55E+01 1-72E-01 1-72E-01 1-72E-02 2-06E-02 3-21E-02 2-06E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-02 3-21E-03 4-67E-04 1-32E-04 7-94E-05 5-48E-05 1-75E-05 1-75E-05 1-75E-05 1-75E-06	64KEV 4.10E+00 3.59E+00 2.53E+01 3.14E-01 1.21E-02 1.52-02 1.53E-02 1.53E-02 1.53E-02 1.53E-03 6.06E-03 8.93E-04 1.23E-04 1.23E-05 1.24E-05 1.24E-05 1.25E-06 1.25E-06 1.25E-06 1.25E-06 1.25E-06 1.25E-06 1.25E-07 1.36E-06 1.37E-06 1.37E-07	128KEV 5.07E+00 3.88E+00 2.02E+01 1.10E-01 3.79E-02 1.64E-03 4.67E-03 2.84E-03 1.82E-03 1.62E-05 9.67E-06 5.75E-06 5.75E-06 5.75E-06 6.72E-07 4.13E-07 1.88E-07 1.38E-07 1.38E-07 1.38E-07 1.38E-07 1.38E-07 1.38E-08 6.19E-08 5.59E-08 5.59E-08 5.59E-08 5.59E-08 5.59E-08 5.59E-08 5.59E-08 5.59E-08	256KEV 7.32E+00 4.20E+00 1.362E-01 3.562E-02 1.22E-03 1.51E-03 9.11E-04 5.87E-04 5.87E-05 1.05E-05 1.05E-05 1.05E-05 1.05E-06 2.77E-06 1.64E-06 6.84E-07 1.85E-07 1.85E-07 1.85E-07 1.85E-07 1.85E-07 1.85E-08 1.70E-08

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

				•	-				
				NEON.	Z=10				
ANGLE	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
0.0	1.915+00	2.22E+00	2.46E+00	Z.65E+00	Z.81E+00	3.03E+00	3.43E+80	4.25E+00	6.14E+00
0.5	1.90E+00	2.21E+00	2.45E+00	2.61E+00	2.74E+00	2.88E+00	3.08E+00	3.40E+00	3.86E+00
1.0	1.89E+00	2.19E+00	2.40E+00	2.51E+00	2.54E+00	2.47E+00	2.29E+00	1.96E+00	1.44E+00
2.0	1.85E+00	2.10E+00	2.22E+00	2.16E+00	1.916+00	1.47E+00	9.45E-01	4.84E-01	1.98E-01
3.0	1.79E+00	1.97E+00	1.96E+00	1.72E+00	1.28E+00	7.64E-01	3.53E-01	1.34E-01	4.47E-02
4.0	1.70E+00	1.80E+00	1.66E+00	1.29E+00	8.04E-01	3.87E-01	1.46E-01	4.72E-02	1.51E-02
5.0	1.60E+00	1.61E+00	1.37E+00	9.40E-01	4.98E-01	2.02E-01	6.68E-02	2.04E-02	6.51E-03
6.0	1.49E+00	1.42E+00	1.11E+00	6.72E-01	3.10E-01	1.11E-01	3.41E-02	1.02E-02	3.29E-03
7.0	1.37E+00	1.23E+00	8.79E-01	4.78E-01	1.97E-01	6.47E-02	1.918-02	5.73E-03	1.84E-03
8.8	1.25E+00	1.05E+00	6.93E-01	3.42E-01	1.28E-01	3.97E-02	1.15E-02	3.48E-03	1.11E-03
9.0	1.13E+00	8.95E-01	5.44E-01	2.46E-01	8.60E-02	2.57E-02	7.41E-03	2.245-03	7.10E-04
10-0	1.015+00	7.58E-01	4.27E-01	1.79E-01	5.94E-02	1.73E-02	4.99E-03	1.516-03	4.74E-04
45.0	E E3E 04	7 405 04	4 375 04		4 715-00	7 905 07	4 405 07	7 275-04	0 775-06
15.0	5.53E-01	3-19E-01	1.37E-01 5.31E-02	4.60E-02	1.34E-02	3.80E-03	1.10E-03	3.23E-04	9.77E-05 3.14E-05
20.0	2.92E-01	1.42E-01		1.63E-02 7.27E-03	4.64E-03	1.31E-03 5.71E-04	3.71E-04 1.59E-04	1.06E-04 4.45E-05	1.30E-05
25.0	1.60E-01	7.105-02	2.46E-02		2.04E-03				
30.0	9-45E-02	3.97E-02	1.31E-02	3.77E-03	1.05E-03	2.89E-04	7.87E-05	2.19E-05	6.34E-06
35.0	6.02E-02	2.42E-02	7.65E-03	2.17E-03	5.97E-04	1.62E-04	4.35E-05	1.20E-05	3.46E-06
40.0	4.10E-02	1.58E-02	4.83E-03	1.35E-03	3.67E-04	9.78E-05	2.60E-05	7.12E-06	2.04E-06
45.0	2.96E-02	1.09E-02	3.22E-03	8.90E-04	2.39E-04	6.28E-05	1.66E+05	4.50E-06	1.295-06
50-0	2-22E-02	7.82E-03	2.26E-03	6.15E-04	1.63E-04	4.24E-05	1.116-05	2.99E-06	8.49E-07
60.0	1.38E-02	4.43E-03	1.23E-03	3.28E-04	8.48E-05	2.17E-05	5.61E-06	1.49E-06	4.15E-07
70.0	9.35E-03	2.78E-03	7.49E-04	1.95E-04	4.94E-05	1.25E-05	3.20E+06	8.38E-07	2.28E-07
80.0	6.79E-03	1.90E-03	4.96E-04	1.26E-04	3.14E-05	7.85E-06	1.98E-06	5.14E-07	1.37E-07
90.0	5.20E-03	1.38E-03	3.50E-04	8.72E-05	2.15E-05	5.32E-06	1.33E-06	3.36E-07	8.77E-08
400 0	6 4 2 F 0 2	4 055.07	2 645-04	£ 705-0 5	. E6E-0E	7 025-06	0 445-07	2 745-07	E 005-00
100.0	4.17E-03	1-05E-03	2.61E-04	6.39E-05	1.56E+05	3.82E-06	9.44E-07	2.34E-07	5.89E-08
110.0	3.47E-03	8.45E-04	2.04E-04	4.91E-05	1.19E-05	2.88E-06 2.28E-06	7.05E-07	1.72E-07	4.16E-08
120.0	3.00E-03	7.04E-04	1.67E-04	3.95E-05	9.46E-06		5.50E-07	1.32E-07	3.10E-08
130.0	2.66E-03	6.06E-04	1.41E-04	3.30E-05	7.85E-06	1.89E-06	4.50E-07	1.05E-07	2.41E-08
140.0	2.43E-03	5.40E-84	1.23E-04	2.86E-05	6.77E-06	1.61E-06	3.83E-07	8.77E-08	1.92E-08
150.0	2.26E-03	4.94E-84	1.11E-04	2.56E-05	6.04E-06	1.43E-06	3.37E-07	7.68E-08	1.60F-08
160.0	2.16E-03	4.64E-04	1.03E-04	2.37E-05	5.58E-06	1.32E-06	3.07E-07	6.95E-08	1.42E-08
170.0	2.09E-03	4.48E-04	9.91E-05	2.27E-05	5.32E-06	1.25E-06	2.93E-07	6.45E-08	1.34E-08
180.0	2.08E-03	4.44E-04	9.76E-05	2.24E-05	5.23E-06	1.23E-06	2.90E-07	6.25E-08	1.31E-08
TOTAL	4.88E-01	2.94E-01	1.66E-01	8.98E-02	4.76E-02	2.53E-02	1.39E-02	8.15E-03	5.29E-03
TRANS	8.03E-02	2.64E-02	8.19E-03	2.43E-03	7.08E-04	2.05E-04	5.98E-05	1.80E-05	5.71E-06
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				ALUMIN	UM, Z=13				256KF V
ANGLE	1KEV	SKEV	4KEV	ALUMIN 8KEV	UM. Z=13 16KEV	32KEV	64KEV	128KEV	256KEV 7.82F+01
ANGLE 0.0	1KEV 2.64E+01	2KEV 2•94E+01	4KEV 3.18E+01	ALUMIN 8KEV 3.39E+01	UM, Z=13 16KEV 3.59E+01	32KEV 3.87E+01	64KEV 4.37E+01	128KEV 5.42E+01	7.82E+01
ANGLE 0.0 0.5	1KEV 2.64E+01 2.62E+01	2KEV 2.94E+01 2.87E+01	4KEV 3.18E+01 3.06E+01	ALUMIN 8KEV 3.39E+01 3.13E+01	UM, Z=13 16KEV 3.59E+01 3.08E+01	32KEV 3.87E+01 2.86E+01	64KEV 4.37E+01 2.45E+01	128KEV 5.42E+01 1.84E+01	7.82E+01 1.17E+01
ANGLE 0.0 0.5 1.0	1KEV 2.64E+01 2.62E+01 2.53E+01	2KEV 2.94E+01 2.87E+01 2.70E+01	4KEV 3.18E+01 3.06E+01 2.72E+01	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01	UM+ Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01	32KEV 3.87E+01 2.86E+01 1.40E+01	64KEV 4.37E+01 2.45E+01 7.86E+00	128KEV 5.42E+01 1.84E+01 3.81E+00	7.82E+01 1.17E+01 1.91E+00
ANGLE 0.0 0.5 1.0 2.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01	2KEV 2.94E+01 2.87E+01 2.70E+01 2.15E+01	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01	UM+ Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01	7.82E+01 1.17E+01 1.91E+00 2.94E-01
ANGLE 0.0 0.5 1.0 2.0 3.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01	2KEV 2.94E+01 2.87E+01 2.70E+01 2.15E+01 1.53E+01	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00	UM, Z=13 16KEV 3.59E+01 2.04E+01 6.69E+00 2.41E+00	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+00	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 4.60E-01	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01	2KEV 2.94E+01 2.87E+01 2.15E+01 1.53E+01 1.02E+01	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00 2.62E+00	UM, Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00 2.41E+00 1.12E+00	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+80 4.89E-01	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 4.60E-01 2.08E-01	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.43E+01 1.07E+01	2KEV 2.94E+01 2.87E+01 2.70E+01 2.15E+01 1.53E+01 1.02E+01 5.62E+00	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00 2.62E+00 1.43E+00	UM, Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00 2.41E+00 1.12E+00 6.24E-01	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+00 4.89E-01 2.70E-01	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 4.60E-01 2.08E-01 1.04E-01	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02 3.47E-02	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.43E+01 1.07E+01 7.86E+00	2KEV 2.94E+01 2.87E+01 2.70E+01 1.53E+01 1.02E+01 5.62E+00 4.33E+00	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00 2.62E+00 1.43E+00 8.81E-01	UM, Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00 2.41E+00 1.12E+00 6.24E-01 3.89E-01	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+00 4.89E-01 2.70E-01 1.60E-01	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 4.60E-01 1.04E-01 5.61E-02	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02 3.47E-02 1.75E-02	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-02 5.49E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01 1.07E+01 7.86E+00 5.71E+00	2KEV 2.94E+01 2.87E+01 2.70E+01 2.15E+01 1.53E+01 1.02E+01 6.62E+00 4.33E+00 2.90E+00	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00 2.62E+00 1.43E+00 8.81E-01 5.89E-01	UM, Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00 2.41E+00 1.12E+00 6.24E-01 3.89E-01 2.57E-01	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+00 4.89E-01 2.70E-01 1.60E-01 9.89E-02	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 4.60E-01 2.08E-01 1.04E-01 5.61E-02 3.23E-02	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02 3.47E-02 1.75E-02 9.73E-03	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-02 5.49E-03 3.05E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01 1.07E+01 7.86E+00 5.71E+00 4.16E+00	2KEV 2.94E+01 2.87E+01 2.70E+01 2.15E+01 1.53E+01 1.02E+01 6.62E+00 4.33E+00 2.01E+00	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 9.16E-01	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00 2.62E+00 1.43E+00 8.81E-01 5.89E-01 4.17E-01	UM, Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00 2.41E+00 1.12E+00 6.24E-01 3.89E-01 1.77E-01	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+80 4.89E-01 2.70E-01 1.60E-01 9.89E-02 6.36E-02	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 4.60E-01 2.08E-01 1.04E-01 5.61E-02 3.23E-02 1.97E-02	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02 3.47E-02 1.75E-02 9.73E-03 5.85E-03	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-02 5.49E-03 3.05E-03 1.84E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.53E+01 1.84E+01 1.43E+01 1.07E+01 7.86E+00 5.71E+00 4.16E+00 3.07E+00	2KEV 2.94E+01 2.87E+01 2.15E+01 1.53E+01 1.02E+01 6.62E+00 4.33E+00 2.91E+00 1.45E+00	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 1.5EE-01 6.70E-01	ALUMIN 8KEV 3.39E+01 3.13E+01 1.23E+01 1.23E+01 5.45E+00 2.62E+00 1.43E+00 8.81E-01 5.89E-01 4.17E-01 3.05E-01	UM, Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00 2.41E+00 1.12E+00 6.24E-01 3.89E-01 2.57E-01 1.24E-01	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 4.89E-01 2.70E-01 1.60E-01 9.89E-02 4.22E-02	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 1.31E+00 1.08E-01 1.04E-01 5.61E-02 3.23E-02 1.26E-02	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02 3.47E-02 1.75E-02 9.73E-03 3.73E-03	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-02 5.49E-03 3.05E-03 1.84E-03 1.17E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01 1.07E+01 7.86E+00 5.71E+00 4.16E+00	2KEV 2.94E+01 2.87E+01 2.70E+01 2.15E+01 1.53E+01 1.02E+01 6.62E+00 4.33E+00 2.01E+00	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 9.16E-01	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00 2.62E+00 1.43E+00 8.81E-01 5.89E-01 4.17E-01	UM, Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00 2.41E+00 1.12E+00 6.24E-01 3.89E-01 1.77E-01	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+80 4.89E-01 2.70E-01 1.60E-01 9.89E-02 6.36E-02	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 4.60E-01 2.08E-01 1.04E-01 5.61E-02 3.23E-02 1.97E-02	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02 3.47E-02 1.75E-02 9.73E-03 5.85E-03	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-02 5.49E-03 3.05E-03 1.84E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.43E+01 1.07E+01 7.86E+00 5.71E+00 4.16E+00 3.07E+00 2.29E+00	2KEV 2.94E+01 2.87E+01 2.70E+01 1.53E+01 1.02E+01 6.62E+00 4.33E+00 2.90E+00 2.91E+00 1.45E+00	4KEV 3.18E+01 3.06E+01 2.72E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 9.16E-01 6.70E-01 5.08E-01	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00 1.43E+00 8.81E-01 5.89E-01 4.17E-01 3.05E-01 2.30E-01	UM, Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00 2.41E+00 6.24E-01 3.89E-01 2.57E-01 1.77E-01 1.24E-01 8.94E-02	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+00 4.89E-01 2.70E-01 1.60E-01 9.89E-02 6.36E-02 4.22E-02 2.89E-02	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 4.60E-01 1.04E-01 5.61E-02 3.23E-02 1.97E-02 1.26E-02 8.46E-03	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.96E-02 3.47E-02 9.73E-03 5.85E-03 3.73E-03 2.50E-03	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-02 5.49E-03 3.05E-03 1.84E-03 7.85E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01 1.07E+01 7.86E+00 5.71E+00 4.16E+00 3.07E+00 2.29E+00	2KEV 2.94E+01 2.87E+01 2.15E+01 1.53E+01 1.02E+01 6.62E+00 4.33E+00 2.01E+00 1.45E+00 1.08E+00	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 9.16E-01 6.70E-01 5.08E-01	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00 2.62E+00 1.43E+00 8.81E-01 5.89E-01 4.17E-01 3.05E-01 2.30E-01 6.82E-02	WM, Z=13 16KEV 3.59E+01 2.04E+01 2.04E+01 6.69E+00 2.41E+00 1.12E+00 6.24E-01 3.89E-01 1.77E-01 1.24E+01 8.94E-02	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+00 4.89E-01 2.70E-01 1.60E-01 9.89E-02 6.36E-02 4.22E-02 2.89E-02 6.40E-03	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 4.60E-01 2.08E-01 1.04E-01 5.61E-02 3.23E-02 1.97E-02 1.26E-02 8.46E-03	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02 3.47E-02 9.73E-03 5.85E-03 3.73E-03 2.50E-03	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-02 5.49E-03 3.05E-03 1.84E-83 1.17E-03 7.85E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01 1.07E+01 7.86E+00 3.07E+00 4.16E+00 3.07E+00 2.29E+00	2KEV 2.94E+01 2.87E+01 2.15E+01 1.02E+01 6.62E+00 4.33E+00 2.90E+00 2.90E+00 1.45E+00 1.08E+00 3.62E-01 1.66E-01	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 9.16E-01 6.70E-01 5.08E-01 1.71E-01 7.30E-02	ALUMIN 8KEV 3.39E+01 3.13E+01 1.23E+01 5.45E+00 2.62E+00 1.43E+00 8.81E-01 5.89E-01 4.17E-01 3.05E-01 2.30E-01 6.82E-02 2.59E-02	UM, Z=13 16KEV 3.59E+01 2.04E+01 6.69E+01 6.69E+00 1.12E+00 6.24E-01 3.89E-01 2.57E-01 1.24E-01 8.94E-02 2.22E-02 7.74E-03	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+80 4.89E-01 2.70E-01 1.60E-01 9.89E-02 4.22E-02 2.89E-02 6.40E-03 2.17E-03	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 1.60E-01 2.08E-01 1.04E-01 5.61E-02 3.23E-02 1.97E-02 1.26E-03 1.82E-03 6.15E-04	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02 3.47E-02 1.75E-02 9.73E-03 5.85E-03 3.73E-03 2.50E-03	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-02 5.49E-03 3.05E-03 1.17E-03 7.85E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.43E+01 1.43E+01 7.86E+00 5.71E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01	2KEV 2.94E+01 2.87E+01 2.15E+01 1.53E+01 1.52E+01 6.62E+00 4.33E+00 2.90E+00 1.45E+00 1.08E+00	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 1.32E+00 1.50E-01 5.08E-01	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00 2.62E+00 1.43E+00 8.81E-01 5.89E-01 4.17E-01 3.05E-01 2.30E-01 6.82E-02 2.59E-02 1.18E-02	UM, Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00 2.41E+00 1.12E+00 6.24E-01 3.89E-01 2.57E-01 1.24E-01 8.94E-02 2.22E-02 7.74E-03 3.39E-03	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+00 4.89E-01 2.70E-01 1.60E-01 9.89E-02 4.22E-02 2.89E-02 6.40E-03 2.17E-03 9.43E-04	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 1.60E-01 2.08E-01 1.04E-01 5.61E-02 3.23E-02 3.23E-02 1.26E-02 8.46E-03 1.82E-03 6.15E-04 2.64E-04	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 7.76E-02 3.47E-02 1.75E-02 9.73E-03 3.73E-03 2.50E-03	7.82E+01 1.17E+01 1.91E+00 2.94E-01 2.94E-02 2.58E-02 1.10E-02 5.49E-03 3.05E-03 1.17E-03 7.85E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.43E+01 1.43E+01 7.86E+00 5.71E+00 4.16E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01 1.78E-01	2KEV 2.94E+01 2.87E+01 2.70E+01 2.15E+01 1.53E+01 1.02E+01 6.62E+00 2.90E+00 2.91E+00 1.08E+00 3.62E-01 1.66E-01 6.75E-02 5.08E-02	4KEV 3.18E+01 3.06E+01 2.72E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 9.16E-01 6.70E-01 5.08E-01 1.71E-01 7.30E-02 3.58E-02 1.97E-02	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00 1.43E+00 8.81E-01 5.89E-01 4.17E-01 2.30E-01 6.82E-02 2.59E-02 1.18E-02 6.18E-03	UM, Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00 2.41E+00 6.24E-01 3.89E-01 2.57E-01 1.72E-01 1.24E-01 8.94E-02 2.22E-02 7.74E-03 3.39E-03 1.74E-03	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+00 4.89E-01 2.70E-01 1.60E-01 9.89E-02 4.22E-02 2.89E-02 6.40E-03 2.17E-03 9.43E-04 4.78E-04	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 4.60E-01 1.04E-01 5.61E-02 3.23E-02 1.97E-02 8.46E-03 1.82E-03 6.15E-04 1.32E-04	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-02 3.47E-02 1.75E-02 9.73E-03 5.85E-03 2.50E-03 5.36E-04 1.78E-04 7.53E-05 3.71E-05	7.82E+01 1.17E+01 1.91E+01 2.94E-01 7.54E-02 2.58E-02 1.10E-02 5.49E-03 3.05E-03 1.84E-03 7.85E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 20.0 25.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01 1.43E+01 7.86E+00 5.71E+00 4.16E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01 1.07E-01 6.86E-02	2KEV 2.94E+01 2.87E+01 2.15E+01 1.53E+01 1.02E+01 6.62E+00 4.33E+00 2.01E+00 1.45E+00 1.08E+00 3.62E-01 1.66E-01 6.75E-02 3.20E-02	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+00 2.01E+00 1.32E+00 9.16E-01 6.70E-01 5.08E-01 1.71E-01 7.30E-02 1.97E-02 1.19E-02	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00 2.62E+00 1.43E+01 5.89E-01 4.17E-01 3.05E-01 2.30E-01 6.82E-02 2.59E-02 1.18E-03 3.57E-03	UM, Z=13 16KEV 3.59E+01 2.04E+01 2.04E+01 6.69E+00 2.41E+00 1.12E+00 6.24E-01 3.89E-01 1.77E-01 1.24E-01 8.94E-02 2.22E-02 7.74E-03 3.39E-03 1.74E-03 9.88E-04	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+80 4.89E-01 2.70E-01 9.89E-02 6.36E-02 4.22E-02 2.89E-02 6.40E-03 2.17E-03 9.43E-04 2.69E-04	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 4.60E-01 2.08E-01 1.04E-01 5.61E-02 3.23E-02 1.97E-02 1.97E-02 1.82E-02 8.46E-03 1.82E-04 1.32E-04 7.35E-04 7.35E-05	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02 3.47E-02 1.75E-03 5.85E-03 3.73E-03 2.50E-03 5.36E-04 1.78E-04 7.53E-05 2.04E-05	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-03 3.05E-03 1.84E-03 1.17E-03 7.85E-04 1.64E-04 5.33E-05 2.22E-05 1.08E-05 5.92E-06
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 20.0 25.0 305.0 40.0	1KEV 2.64E+01 2.62E+01 2.53E+01 1.84E+01 1.43E+01 1.07E+01 7.86E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01 1.07E-01 1.07E-01 1.07E-02 4.71E-02	2KEV 2.94E+01 2.87E+01 2.15E+01 1.02E+01 1.02E+01 6.63E+00 4.31E+00 1.45E+00 1.45E+00 1.66E-01 8.75E-02 5.08E-02 2.16E-02	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 9.16E-01 6.70E-01 5.08E-01 1.71E-01 7.30E-02 3.58E-02 1.97E-02 7.63E-03	ALUMIN 8KEV 3.39E+01 2.51E+01 1.23E+01 1.25E+00 2.62E+00 1.43E+00 8.81E-01 4.17E-01 3.05E-01 2.30E-01 6.82E-02 2.59E-02 1.18E-02 6.18E-03 2.22E-03	UM, Z=13 16KEV 3.59E+01 2.08E+01 2.04E+00 6.69E+00 1.12E+00 6.24E-01 3.89E-01 1.77E-01 1.77E-01 1.24E-01 8.94E-02 2.22E-02 7.74E-03 3.39E-03 1.77E-03	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+80 4.89E-01 2.70E-01 1.60E-01 9.89E-02 4.22E-02 2.89E-02 6.40E-03 2.17E-03 9.43E-04 4.76E-04 4.64E-04	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 2.08E-01 1.04E-01 5.61E-02 3.23E-02 1.97E-02 1.26E-03 1.82E-03 1.82E-04 2.64E-04 1.32E-04 1.32E-05 4.41E-05	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02 1.75E-02 1.75E-03 3.73E-03 2.50E-03 5.36E-04 1.78E-04 7.53E-05 3.71E-05 3.71E-05 1.22E-05	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.94E-02 2.58E-02 1.10E-02 5.49E-03 1.84E-03 1.17E-03 7.85E-04 1.64E-04 5.33E-05 2.22E-05 1.08E-05 5.92E-06 3.50E-06
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 20.0 25.0 30.0 40.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01 1.43E+01 1.07E+01 7.86E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01 1.78E-01 1.07E-01 6.86E-02 4.71E-02 3.42E-02	2KEV 2.94E+01 2.87E+01 2.15E+01 2.15E+01 1.02E+01 6.62E+00 4.33E+00 2.90E+00 1.45E+00 1.08E+00 3.62E-01 1.66E-01 8.75E-02 3.20E-02 2.16E-02 1.53E-02	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 1.32E+00 1.70E-01 5.08E-01 1.71E-01 7.30E-02 1.97E-02 1.97E-02 1.97E-03 5.17E-03	ALUMIN 8KEV 3.39E+01 2.51E+01 1.23E+01 1.25E+00 2.62E+00 1.43E+00 8.81E-01 5.89E-01 2.30E-01 2.59E-01 2.59E-02 1.18E-02 6.18E-03 3.57E-03 1.47E-03	UM, Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00 1.12E+00 6.24E-01 3.89E-01 2.57E-01 1.24E-01 8.94E-02 2.77E-03 3.39E-03 1.74E-03 9.88E-04 3.97E-04	32KEV 3.87E+01 2.86E+01 1.40E+00 1.03E+00 4.89E-01 2.70E-01 1.60E-01 9.89E-02 4.22E-02 2.89E-02 6.40E-03 2.17E-03 9.43E-04 4.78E-04 4.69E-04 1.66E-04	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 1.60E-01 2.08E-01 1.04E-01 5.61E-02 3.23E-02 1.26E-02 8.46E-03 1.82E-04 7.35E-04 7.35E-05 2.82E-05	128KEV 5.42E+01 1.84E+01 3.81E+01 6.20E-01 7.76E-02 3.47E-02 1.75E-02 9.73E-03 3.73E-03 2.50E-03 5.36E-04 7.78E-04 7.53E-05 3.71E-05 2.04E-05 7.70E-06	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-02 5.49E-03 1.17E-03 7.85E-04 1.64E-04 5.33E-05 2.22E-05 1.08E-05 5.92E-06 2.21E-06
ANGLE 0.0 0.5 1.0 2.0 3.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 25.0 35.0 45.0 45.0 45.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.43E+01 1.43E+01 7.86E+00 5.71E+00 2.29E+00 7.25E-01 3.29E-01 1.07E-01 6.86E-02 4.71E-02 4.71E-02 2.60E-02	2KEV 2.94E+01 2.87E+01 2.70E+01 2.15E+01 1.53E+01 1.02E+01 6.62E+00 2.90E+00 2.91E+00 1.08E+00 3.62E-01 1.66E-01 6.75E-02 3.20E-02 2.15E-02 1.15E-02	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 1.32E+00 1.32E+00 1.71E-01 7.30E-01 1.71E-01 7.30E-02 1.97E-02 1.97E-02 1.97E-03 3.66E-03	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 5.45E+00 2.62E+00 1.43E+00 8.81E-01 5.89E-01 4.17E-01 3.05E-01 2.30E-01 6.82E-02 2.59E-02 1.18E-02 6.18E-03 3.57E-03 1.22E-03 1.02E-03	UM, Z=13 16KEV 3.59E+01 3.08E+01 2.04E+01 6.69E+00 2.41E+00 6.24E-01 3.89E-01 2.57E-01 1.24E-01 8.94E-02 2.2E-02 7.74E-03 3.39E-03 1.74E-03 9.88E-04 6.08E-04 2.72E-04	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+00 4.89E-01 2.70E-01 1.60E-01 9.89E-02 6.40E-02 2.89E-02 6.40E-03 2.17E-03 9.43E-04 4.78E-04 1.64E-04 1.65E-04 7.19E-05	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 4.60E-01 1.04E-01 5.61E-02 3.23E-02 1.26E-02 8.46E-03 1.82E-02 8.46E-03 1.82E-04 7.35E-04 7.35E-05 4.42E-05 1.90E-05	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 1.96E-02 3.47E-02 1.73E-03 3.73E-03 2.50E-03 5.36E-04 1.78E-04 7.53E-05 1.70E-05 1.70E-06 5.13E-06	7.82E+01 1.17E+01 1.91E+00 2.94E-01 2.94E-02 2.58E-02 1.10E-02 5.49E-03 3.05E-03 1.17E-03 7.85E-04 1.64E-05 5.32E-05 1.08E-05 5.92E-06 3.50E-06 3.50E-06 1.46E-06
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 230.0 45.0 45.0 66.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.04E+01 1.07E+01 7.86E+00 5.71E+00 4.16E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01 1.07E-01 6.86E-02 4.71E-02 2.60E-02 1.69E-02	2KEV 2.94E+01 2.87E+01 2.15E+01 1.53E+01 1.02E+01 6.62E+00 4.33E+00 2.81E+00 1.08E+00 1.08E+00 1.08E+00 2.166E-01 8.75E-02 3.20E-02 2.16E-02 1.13E-02 6.76E-03	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+00 2.01E+00 1.32E+00 9.16E-01 6.70E-01 5.08E-01 1.71E-01 7.30E-02 3.58E-02 1.97E-02 1.97E-02 7.63E-03 5.17E-03 2.03E-03	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 1.23E+01 5.45E+00 2.62E+00 1.43E+00 8.81E-01 4.17E-01 3.05E-01 2.30E-01 6.82E-02 2.59E-02 1.18E-03 3.57E-03 2.22E-03 1.47E-03 5.45E-04	UM, Z=13 16KEV 3.59E+01 2.08E+01 2.049E+00 2.41E+00 1.12E+00 6.249E-01 3.89E-01 1.77E-01 1.77E-01 1.24E+01 8.94E-02 2.27E-03 3.39E-03 9.88E-04 6.08E-04 3.972E-04 1.43E-04	32KEV 3.87E+01 2.86E+01 1.40E+01 1.03E+80 4.89E-01 2.70E-01 9.89E-02 4.22E-02 4.22E-02 2.89E-02 4.22E-02 2.89E-02 4.78E-04 2.69E-04 1.64E-04 1.64E-04 1.06E-05 3.70E-05	64KEV 4.37E+01 7.45E+01 7.46E+00 1.31E+00 4.60E-01 2.08E-01 1.04E-01 5.61E-02 1.97E-03 1.97E-04 7.35E-04 7.35E-04 7.35E-05 4.41E-05 1.90E-05 9.62E-06	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02 3.47E-02 1.75E-03 5.85E-03 3.73E-03 2.50E-03 5.36E-04 1.78E-04 7.53E-05 2.71E-05 1.22E-05 1.22E-05 2.57E-06	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-03 3.05E-03 1.84E-03 1.17E-03 7.85E-04 1.64E-04 5.32E-05 2.22E-05 1.08E-05 5.92E-06 3.51E-06 2.21E-06 7.15E-07
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 9.0 15.0 25.0 40.0 45.0 50.0 70.0	1KEV 2.64E+01 2.62E+01 2.53E+01 1.254E+01 1.84E+01 1.43E+01 1.07E+01 7.86E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01 1.76E-01 1.07E-01 1.07E-02 4.71E-02 3.42E-02 2.60E-02 1.69E-02 1.22E-02	2KEV 2.94E+01 2.87E+01 2.15E+01 1.02E+01 1.02E+01 1.02E+00 4.33E+00 2.01E+00 1.45E+00 1.45E+00 1.66E-01 8.75E-02 5.08E-02 2.16E-02 1.153E-02 1.153E-02 1.153E-03 4.43E-03	4KEV 3.18E+01 3.06E+01 2.72E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 9.16E-01 6.70E-01 5.08E-01 1.71E-01 7.30E-02 3.58E-02 1.97E-02 7.63E-03 5.17E-03 3.66E-03 2.03E-03 1.25E-03	ALUMIN 8KEV 3.39E+01 3.13E+01 1.25E+01 1.23E+00 2.62E+00 1.43E+01 5.89E-01 4.17E-01 3.05E-01 2.30E-01 6.82E-02 2.59E-02 1.18E-02 6.18E-03 2.22E-03 1.47E-03 1.02E-03 3.47E-03 3.47E-04 3.27E-04	UM, Z=13 16KEV 3.59E+01 2.04E+01 2.04E+00 1.12E+00 6.24E-01 3.89E-01 1.77E-01 1.77E-01 1.24E+01 8.94E-02 2.7.74E-03 3.39E-03 1.74E-03 3.39E-03 1.74E-04 4.48E-04 3.97E-04 1.43E-04 8.40E-05	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+80 4.89E-01 2.70E-01 1.60E-01 9.89E-02 4.22E-02 2.89E-02 4.22E-02 2.89E-02 4.78E-04 4.78E-04 4.78E-04 1.64E-04 1.64E-04 7.19E-05 2.14E-05	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 1.31E+01 2.08E-01 1.04E-01 5.61E-02 3.23E-02 1.97E-02 1.26E-03 1.82E-02 8.46E-03 1.82E-04 1.33E-05 4.41E-05 2.82E-05 1.90E-06 5.48E-06	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 7.76E-02 3.47E-02 1.75E-03 5.85E-03 3.73E-03 2.50E-03 5.36E-04 7.75E-05 3.71E-05 1.78E-05 7.70E-06 5.13E-06 5.13E-06 1.44E-06	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-03 3.05E-03 1.84E-03 1.17E-03 7.85E-04 1.64E-04 5.33E-05 2.22E-05 1.08E-05 5.92E-06 3.50E-06 2.21E-06 1.46E-07 3.95E-07
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ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 9.0 15.0 25.0 40.0 45.0 50.0 70.0	1KEV 2.64E+01 2.62E+01 2.53E+01 1.254E+01 1.84E+01 1.43E+01 1.07E+01 7.86E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01 1.76E-01 1.07E-01 1.07E-02 4.71E-02 3.42E-02 2.60E-02 1.69E-02 1.22E-02	2KEV 2.94E+01 2.87E+01 2.15E+01 1.02E+01 1.02E+01 1.02E+00 4.33E+00 2.01E+00 1.45E+00 1.45E+00 1.66E-01 8.75E-02 5.08E-02 2.16E-02 1.153E-02 1.153E-02 1.153E-03 4.43E-03	4KEV 3.18E+01 3.06E+01 2.72E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 9.16E-01 6.70E-01 5.08E-01 1.71E-01 7.30E-02 3.58E-02 1.97E-02 7.63E-03 5.17E-03 3.66E-03 2.03E-03 1.25E-03	ALUMIN 8KEV 3.39E+01 3.13E+01 1.25E+01 1.23E+00 2.62E+00 1.43E+01 5.89E-01 4.17E-01 3.05E-01 2.30E-01 6.82E-02 2.59E-02 1.18E-02 6.18E-03 2.22E-03 1.47E-03 1.02E-03 3.47E-03 3.47E-04 3.27E-04	UM, Z=13 16KEV 3.59E+01 2.04E+01 2.04E+00 1.12E+00 6.24E-01 3.89E-01 1.77E-01 1.77E-01 1.24E+01 8.94E-02 2.7.74E-03 3.39E-03 1.74E-03 3.39E-03 1.74E-04 4.48E-04 3.97E-04 1.43E-04 8.40E-05	32KEV 3.87E+01 2.86E+01 1.40E+01 3.02E+00 1.03E+80 4.89E-01 2.70E-01 1.60E-01 9.89E-02 4.22E-02 2.89E-02 4.22E-02 2.89E-02 4.78E-04 4.78E-04 4.78E-04 1.64E-04 1.64E-04 7.19E-05 2.14E-05	64KEV 4.37E+01 2.45E+01 7.86E+00 1.31E+00 1.31E+01 2.08E-01 1.04E-01 5.61E-02 3.23E-02 1.97E-02 1.26E-03 1.82E-02 8.46E-03 1.82E-04 1.33E-05 4.41E-05 2.82E-05 1.90E-06 5.48E-06	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 7.76E-02 3.47E-02 1.75E-03 5.85E-03 3.73E-03 2.50E-03 5.36E-04 7.75E-05 3.71E-05 1.78E-05 7.70E-06 5.13E-06 5.13E-06 1.44E-06	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-02 5.49E-03 3.05E-03 1.84E-83 1.17E-03 7.85E-04 1.64E-04 5.33E-05 2.22E-05 1.08E-05 5.92E-06 3.50E-06 2.21E-06 1.46E-07 3.95E-07
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ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 35.0 45.0 45.0 50.0 45.0 90.0 110.0 120.0 120.0 120.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01 1.43E+01 1.07E+01 7.86E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01 1.78E-01 6.65E-02 4.71E-02 3.42E-02 2.60E-02 1.22E-02 9.49E-03 7.78E-03 5.84E-03 5.84E-03 4.88E-03 4.88E-03	2KEV 2.94E+01 2.87E+01 2.15E+01 1.53E+01 1.02E+01 6.62E+00 4.33E+00 2.01E+00 1.45E+00 1.45E+00 1.66E-01 8.75E-02 3.62E-02 1.53E-02 1.66E-02 1.66E-02 1.16E-02 1.16E-03 4.43E-03 3.11E-03 1.80E-03 1.24E-03 1.24E-03 9.71E-04	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 9.16E-01 6.70E-01 5.08E-01 1.71E-01 7.30E-82 3.58E-02 1.97E-02 1.97E-03 3.66E-03 3.66E-03 3.66E-03 3.66E-03 4.47E-04 3.93E-04 2.47E-04 2.18E-04	ALUMIN 8KEV 3.39E+01 2.51E+01 1.25E+01 1.25E+00 2.62E+00 1.45E+01 3.8E+01 3	VM, Z=13 16KEV 3.59E+01 2.04E+01 2.04E+00 1.12E+00 6.69E+00 1.12E+00 1.2E+01 3.89E-01 1.77E-01 1.77E-01 1.24E+02 2.774E-03 3.39E-03 1.74E-03 3.39E-04 3.39E-04 3.39E-04 3.39E-04 3.39E-05 3.69E-05 3.69E-05 3.69E-05 1.36E-05 1.36E-05 1.36E-05 1.36E-05 1.36E-05 1.36E-05	32KEV 3.87E+01 2.86E+01 1.02E+00 1.03E+80 4.89E-01 2.70E-01 1.60E-01 1.60E-02 4.22E-02 4.22E-02 4.22E-02 4.22E-02 4.22E-02 4.22E-02 4.22E-02 4.22E-02 4.22E-02 5.40E-04 7.78E-04 7.19E-05 2.14E-05 2.14E-05 1.35E-06 4.94E-06 4.94E-06 2.78E-06 2.78E-06	64KEV 4.37E+01 7.85E+01 7.85E+01 1.31E+00 1.31E+01 1.04E-01 5.61E-02 3.23E-02 1.26E-02 8.46E-03 1.82E-04 7.35E-05 1.82E-04 7.35E-05 1.90E-05 9.62E-06 5.44E-06 2.28E-06 1.62E-06 5.44E-06 2.28E-06 1.62E-06 5.44E-06 2.28E-06 5.44E-06 6.12E-06 6.12E-07	128KEV 5.42E+01 1.84E+01 3.81E+01 6.20E-01 7.76E-02 3.47E-02 1.75E-02 9.73E-03 3.73E-03 2.50E-03 3.73E-05 3.71E-05 2.04E-05 7.70E-06 5.13E-06 2.57E-06 8.82E-07 7.70E-06 7.70E-06 7.70E-06 7.70E-06 7.70E-07 4.04E-07 7.70E-07	7.82E+01 1.17E+01 1.91E+00 2.94E-02 2.58E-02 1.10E-03 3.05E-03 1.84E-03 1.17E-03 7.85E-04 1.64E-04 5.32E-05 2.22E-06 3.22E-06 2.21E-06 7.15E-07 1.95E-07 1.95E-07 1.95E-07 1.92E-07 2.37E-07 1.02E-08 4.09E-08
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 225.0 305.0 405.0 45.0 600.0 800.0 1100.0 1200.0 1300.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01 1.43E+01 1.07E+01 7.86E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01 1.78E-01 1.07E-01 2.60E-02 4.71E-02 3.42E-02 2.60E-02 1.62E-02 9.49E-03 7.78E-03 4.88E-03 4.58E-03 4.58E-03 4.57E-03	2KEV 2.94E+01 2.87E+01 2.15E+01 1.02E+01 1.02E+01 1.02E+00 4.33E+00 2.91E+00 1.45E+00 1.45E+00 1.66E-01 8.75E-02 5.08E-02 2.16E-02 1.53E-02 1.53E-02 1.16E-03 3.11E-03 2.31E-03 2.31E-03 1.80E-03 1.24E-03 1.24E-03 1.95E-04 8.95E-04	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 2.01E-01 5.08E-01 1.71E-01 7.30E-02 1.97E-02 1.97E-02 1.97E-03 3.66E-03 2.03E-03 3.25E-03 8.32E-04 5.93E-04 4.47E-04 2.90E-04 2.18E-04 1.98E-04	ALUMIN 8KEV 3.39E+01 3.13E+01 1.23E+01 1.23E+00 1.43E+00 2.62E+00 1.43E+01 5.89E-01 4.17E-01 3.05E-01 6.82E-02 6.18E-02 6.18E-03 2.22E-03 1.47E-03 1.47E-03 1.47E-03 1.47E-03 1.47E-04 4.51E-04 1.49E-04 1.51E-05 6.87E-05	VM, Z=13 16KEV 3.59E+01 2.08E+01 2.04E+00 1.12E+00 6.24E-01 3.87E-01 1.77E-01 1.77E-01 1.24E-01 8.94E-02 2.74E-03 3.374E-03 3.374E-03 4.08E-04 3.97E-04 1.42E-05 3.69E-05 1.64E-05 1.64E-05 1.65E-05 1.05E-05 1.05E-05	32KEV 3.87E+01 2.86E+01 1.40E+01 1.03E+80 4.89E-01 2.70E-01 9.89E-02 4.22E-02 4.22E-02 4.22E-02 4.74E-04 4.78E-04 4.78E-04 1.64E-04 1.64E-05 1.72E-05 1.72E-05 1.72E-05 1.73E-06 4.74E-05 1.74E-05	64KEV 4.37E+01 7.86E+001 1.31E+001 2.08E-01 1.08E-01 2.08E-02 1.97E-02 1.97E-02 1.26E-02 1.97E-02 1.26E-03 1.82E-02 1.82E-04 1.33E-05 1.92E-05 1.92E-05 1.92E-05 1.92E-06 1.92E-06 1.92E-06 1.92E-07	128KEV 5.42E+01 1.84E+01 3.81E+01 1.99E-01 7.76E-02 1.75E-02 1.75E-03 3.73E-03 2.50E-03 3.73E-03 2.50E-03 5.36E-04 7.78E-05 3.71E-05 3.71E-05 7.70E-06 5.13E-06 2.54E-07 7.70E-06 5.13E-07 4.04E-07 1.81E-07 1.81E-07 1.81E-07	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-03 3.05E-03 1.84E-03 1.17E-03 7.85E-04 1.64E-04 5.33E-05 2.22E-06 3.50E-06 2.21E-06 7.15E-07 2.37E-07 1.02E-07 7.23E-08 5.34E-08 3.28E-08
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ANGLE 0.0 0.5 1.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 250.0 250.0 450.0 70.0 80.0 90.0 1100.0 120.0 120.0 120.0 150.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01 1.84E+01 1.43E+01 1.86E+00 5.71E+00 4.16E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01 1.07E-01 6.86E-02 4.71E-02 3.42E-02 2.60E-02 1.22E-02 9.49E-03 7.78E-03 6.63E-03 5.28E-03 4.58E-03 4.58E-03 4.58E-03 4.58E-03 4.58E-03 4.58E-03 4.58E-03 4.58E-03 4.69E-03	2KEV 2.94E+01 2.87E+01 2.15E+01 1.53E+01 1.53E+01 1.02E+01 6.62E+00 4.33E+00 2.01E+00 1.08E+00 1.08E+00 1.08E+00 1.08E+00 2.01E+00 1.08E+00 1.08E+00 3.66E-02 2.16E-02 1.16E-02 1.16E-02 1.16E-03 4.43E-03 3.11E-03 1.80E-03 1.80E-03 1.80E-03 1.80E-04 8.42E-03 1.80E-04 8.42E-04 8.42E-04 8.46E-04 8.46E-04 8.46E-04	4KEV 3.18E+01 3.06E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 9.16E-01 6.70E-01 5.08E-01 1.71E-01 7.30E-02 3.58E-02 1.97E-02 7.63E-03 3.66E-03 2.03E-03 1.25E-03 3.66E-03 2.03E-04 4.47E-04 2.90E-04 2.18E-04 1.85E-04 1.85E-04	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 1.23E+01 1.25E+00 2.62E+00 1.43E+01 3.05E-01 4.17E-01 3.05E-01 4.17E-01 3.05E-01 4.17E-01 3.05E-01 4.17E-01 3.05E-01 4.17E-01 3.05E-01 4.17E-02 1.18E-03 3.57E-03 2.22E-03 1.47E-04 1.02E-04 3.27E-04 1.10E-04 8.81E-05 5.77E-05 4.19E-05 4.19E-05 4.19E-05	UM, Z=13 16KEV 3.59E+01 2.08E+01 2.08E+01 2.04E+00 1.12E+00 6.69E+01 3.89E-01 1.77E-01 1.77E-01 1.24E-02 2.57E-01 3.89E-01 2.49E-02 2.74E-03 3.39E-04 6.08E-04 3.74E-05 3.38E-05 2.68E-05 2.68E-05 1.64E-05	32KEV 3.87E+01 2.86E+01 1.02E+00 1.03E+00 4.89E-01 2.70E-01 9.83E-02 4.22E-02 2.89E-02 4.22E-02 2.17E-03 9.43E-04 4.78E-04 4.78E-04 2.69E-02 3.76E-05 3.76E-05 3.76E-05 3.14E-05 3.76E-05 3.76E-06 2.14E-05 3.76E-06 2.14E-05 2.14E-05 2.14E-05 2.14E-05 2.14E-05 2.14E-05 2.14E-05 2.14E-05 2.14E-05 2.14E-05 2.14E-05 2.14E-05 2.14E-05 2.14E-06 2.14E-06 2.14E-06 2.14E-06 2.14E-06 2.14E-06 2.14E-06 2.14E-06	64KEV 4.37E+01 7.85E+01 7.85E+01 1.31E+01 2.08E-01 1.04E-02 3.27E-02 3.27E-02 8.46E-03 1.82E-02 8.46E-04 7.34E-05 2.82E-05 9.64E-05 2.82E-05 9.64E-06 3.41E-05 2.82E-06 3.41E-06 3.41E-07 7.74E-07 6.758E-07 7.758E-07 7.758E-07 7.758E-07	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-02 3.47E-02 3.75E-03 5.85E-03 3.73E-03 2.50E-04 1.75E-05 2.50E-05 1.22E-05 1.22E-05 1.22E-05 1.22E-06 2.57E-06 2.57E-06 3.77E-07 4.04E-07 2.96E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07	7.82E+01 1.17E+01 1.91E+001 2.94E-01 2.94E-02 2.58E-02 1.10E-02 5.49E-03 1.17E-03 7.85E-04 1.64E-05 2.22E-05 1.08E-05 2.22E-06 1.46E-06 7.15E-07 2.37E-07 1.51E-07 1.02E-08 4.09E-08 3.28E-08 2.78E-08 2.44E-08
ANGLE 0.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.0 1.0 0.0 1.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 1.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01 1.43E+01 1.43E+01 1.07E+01 7.86E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01 1.78E-01 1.07E-01 6.07E-01 6.07E-02 4.71E-02 3.42E-02 2.60E-02 1.22E-02 9.49E-03 7.78E-03 4.58E-03 4.58E-03 4.58E-03 4.37E-03 4.16E-03 4.13E-03 4.13E-03	2KEV 2.94E+01 2.87E+01 2.15E+01 1.02E+01 1.02E+01 1.02E+00 4.33E+00 2.01E+00 1.45E+00 1.45E+00 1.45E+00 1.66E-02 2.01E-02 2.16E-02 2.16E-02 2.16E-02 1.13E-03 3.3E-03 3.3E-03 4.47E-03 3.7E-04 8.95E-04 8.19E-04 8.19E-04 8.19E-04	4KEV 3.18E+01 3.06E+01 2.72E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 9.16E-01 6.70E-01 5.08E-01 1.71E-01 7.30E-82 1.97E-02 1.97E-02 7.63E-03 5.17E-03 3.66E-03 1.25E-03 8.32E-04 5.93E-04 4.47E-04 2.97E-04 2.97E-04 1.98E-04 1.98E-04 1.76E-04	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+00 1.25E+00 2.62E+00 1.45E+00 8.81E-01 4.17E-01 3.30E-01 4.17E-01 3.30E-01 6.82E-02 2.18E-03 3.22E-03 1.42E-03 3.22E-03 1.42E-04 1.51E-04 1.51E-04 1.51E-05 5.77E-05 4.51E-05 5.77E-05	VM, Z=13 16KEV 3.59E+01 2.08E+01 2.04E+01 2.41E+00 6.69E+00 1.12E+00 1.12E+01 1.77E-01 1.77E-01 1.77E-01 1.74E-02 2.7.74E-03 3.89E-02 2.7.74E-03 3.89E-04 2.92E-04 3.89E-05 3.89E	32KEV 3.87E+01 2.86E+01 1.40E+01 1.03E+80 4.89E-01 2.70E-01 9.89E-02 4.22E-02 4.22E-02 4.22E-02 4.73E-04 4.78E-04 4.78E-04 1.64E-04 1.64E-05 1.64E-05 1.64E-05 1.73E-05 1.64E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-05 1.73E-06	64KEV 4.37E+01 7.86E+01 1.31E+00 1.31E+00 1.31E+00 1.31E+00 1.31E+00 1.31E+00 1.32E-01 1.61E-01 3.23E-02 1.97E-02 1.97E-02 1.97E-02 1.97E-02 1.97E-005 1.82E-04 1.32E-05 1.92E-05 1.92E-06 1.92E-06 1.93E-06 1.93E-07	128KEV 5.42E+01 1.84E+01 3.81E+00 6.20E-01 1.99E-01 7.76E-02 3.47E-02 1.75E-03 5.85E-03 3.73E-03 2.50E-03 5.73E-03 2.50E-03 5.73E-05 2.50E-05 1.22E-05 1.22E-05 5.13E-06 2.57E-06 1.44E-07 2.57E-07 1.48E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07	7.82E+01 1.17E+01 1.91E+00 2.94E-02 2.58E-02 1.10E-03 3.05E-03 1.84E-03 1.17E-03 7.85E-04 1.64E-04 5.32E-05 2.22E-06 3.50E-06 2.51E-06 2.51E-06 2.51E-07 1.95E-07 1.95E-07 1.95E-07 2.37E-07 1.02E-08 3.28E-08 2.44E-08 2.44E-08 2.42E-08
ANGLE 0.0 0.5 1.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 250.0 250.0 450.0 70.0 80.0 90.0 1100.0 120.0 120.0 120.0 150.0	1KEV 2.64E+01 2.62E+01 2.53E+01 2.24E+01 1.84E+01 1.84E+01 1.43E+01 1.86E+00 5.71E+00 4.16E+00 3.07E+00 2.29E+00 7.25E-01 3.29E-01 1.07E-01 6.86E-02 4.71E-02 3.42E-02 2.60E-02 1.22E-02 9.49E-03 7.78E-03 6.63E-03 5.28E-03 4.58E-03 4.58E-03 4.58E-03 4.58E-03 4.58E-03 4.58E-03 4.58E-03 4.58E-03 4.69E-03	2KEV 2.94E+01 2.87E+01 2.15E+01 1.53E+01 1.53E+01 1.02E+01 6.62E+00 4.33E+00 2.01E+00 1.08E+00 1.08E+00 1.08E+00 1.08E+00 2.01E+00 1.08E+00 1.08E+00 3.66E-02 2.16E-02 1.16E-02 1.16E-02 1.16E-03 4.43E-03 3.11E-03 1.80E-03 1.80E-03 1.80E-03 1.80E-04 8.42E-03 1.80E-04 8.42E-04 8.42E-04 8.46E-04 8.46E-04 8.46E-04	4KEV 3.18E+01 3.06E+01 1.79E+01 1.03E+01 5.71E+00 3.28E+00 2.01E+00 1.32E+00 9.16E-01 6.70E-01 5.08E-01 1.71E-01 7.30E-02 3.58E-02 1.97E-02 7.63E-03 3.66E-03 2.03E-03 1.25E-03 3.66E-03 2.03E-04 4.47E-04 2.90E-04 2.18E-04 1.85E-04 1.85E-04	ALUMIN 8KEV 3.39E+01 3.13E+01 2.51E+01 1.23E+01 1.23E+01 1.25E+00 2.62E+00 1.43E+01 3.05E-01 4.17E-01 3.05E-01 4.17E-01 3.05E-01 4.17E-01 3.05E-01 4.17E-01 3.05E-01 4.17E-01 3.05E-01 4.17E-02 1.18E-03 3.57E-03 2.22E-03 1.47E-04 1.02E-04 3.27E-04 1.10E-04 8.81E-05 5.77E-05 4.19E-05 4.19E-05 4.19E-05	UM, Z=13 16KEV 3.59E+01 2.08E+01 2.08E+01 2.04E+00 1.12E+00 6.69E+01 3.89E-01 1.77E-01 1.77E-01 1.24E-02 2.57E-01 3.89E-01 2.49E-02 2.74E-03 3.39E-04 6.08E-04 3.74E-05 3.38E-05 2.68E-05 2.68E-05 1.64E-05	32KEV 3.87E+01 2.86E+01 1.02E+00 1.03E+80 4.89E-01 2.70E-01 1.60E-01 1.60E-02 4.22E-02 4.22E-02 4.22E-02 4.22E-02 4.22E-02 4.22E-02 4.22E-02 4.22E-02 5.47E-04 4.78E-04 1.64E-04 1.64E-04 1.64E-05 2.14E-05 2.14E-05 2.14E-05 2.14E-05 2.14E-06 4.94E-06 4.94E-06 2.78E-06 2.78E-06 2.47E-06 2.47E-06 2.13E-06	64KEV 4.37E+01 7.86E+01 1.31E+00 1.31E+01 2.08E-01 1.08E-01 2.08E-02 1.97E-02 1.97E-02 1.97E-02 1.97E-02 1.97E-05 1.97E-05 1.97E-05 1.97E-05 1.97E-05 1.97E-05 1.97E-05 1.97E-05 1.97E-05 1.97E-07	128KEV 5.42E+01 1.84E+01 3.81E+001 3.92E-01 7.76E-02 3.47E-02 3.75E-03 5.85E-03 3.73E-03 2.50E-03 5.75E-05 1.78E-05 7.71E-05 1.22E-06 5.13E-06 5.13E-06 5.13E-07 1.44E-07 2.96E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07 1.51E-07	7.82E+01 1.17E+01 1.91E+00 2.94E-01 7.54E-02 2.58E-02 1.10E-03 3.05E-03 1.84E-03 1.17E-03 7.85E-04 1.64E-04 5.33E-05 2.28E-05 5.92E-06 3.50E-06 2.21E-06 7.15E-07 2.37E-07 1.02E-07 7.237E-07 1.02E-08 3.34E-08 2.42E-08 2.42E-08 2.43E-08

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

				511 100	N, Z=14				
ANGLE	1KEV	2KEV	4KE¥	BKEV	16KEV	32KEV	64KEV	128KEV	256KEV
0.0	2.41E+01	2.72E+01	2.98E+01	3.20E+01	3.42E+01	3.69E+01	4.18E+01	5.19E+01	7.49E+01
0.5	2.39E+01	2.676+01	2.89E+01	3.02E+01	3.03E+01	2.92E+01	2.65E+01	2.16E+01	1-48E+01
1.0	2.33E+01	2.55E+01	2.64E+01	2.54E+01	2.19E+01	1.62E+01	9.84E+00	4.88E+00	2.275+00
2.0	2.11E+01	2.13E+01 1.61E+01	1.89E+01	1.41E+01	8.30E+00	3.86E+00	1.59E+00	6.89E-01	3.22E-01
3.0 4.0	1.81E+01 1.48E+01	1.01E+01	1.18E+01 6.98E+00	6.78E+00 3.31E+00	3.06E+00 1.35E+00	1.22E+00 5.45E+01	5.08E-01 2.27E-01	2.19E-01 8.75E-02	8.61E-02 3.00E-02
5.0	1.16E+01	7.83E+0D	4.10E+00	1.76E+00	7.12E-01	2.946-01	1.15E-01	3.996-02	1.28E-02
6.0	3.88E+00	5.298+00	2.50E+00	1.04E+00	4.28E-01	1.74E-01	6.34E-02	2.03E-02	6.37E-03
7 • 0	6.68E+00	3.59E+00	1.60E+00	6.69E-01	2.79E-01	1.09E-01	3.69E-02	1.135-02	3.53E-03
8.0	5.00E+00	2.49E+00	1.08E+00	4.60E-01	1.91E-01	7.11E-02	2.27E-02	6.79E-03	2.12E-03
9.0	3.74E+00	1.77E+00	7.71E-01	3.32E-01	1.35E-01	4.77E-02	1.46E-02	4.33E-03	1.35E-03
10.0	2.81E+00	1.30E+00	5.71E-01	2.47E-01	9.81E-02	3.30E-02	9.82E-83	2.90E-03	9.05E-04
15.0	8.48E-01	3.98E-01	1.83E-01	7.45E-02	2.52E-02	7.41E-03	2.102-03	6.19E-04	1.90E-04
20.0	3.66€-01	1.77E-01	7.83E-02	2.89E-02	8.90F-03	2.51E-03	7.10E-04	2.06E-04	6.19E-05
25.0	1.945-01	9.25E-02	3.90E-02	1.34E-02	3.92E-03	1.09E-03	3.05E-04	8.73E-05	2.58E-05
30.0	1.14E-01	5.39F-02	2.17E-02	7.05E-03	2.00E-03	5.52E-04	1.53E-04	4.31E-05	1.26E-05
35.0	7.27E-02	3.41E-02	1.32E-02	4.09E-03	1.14E-03	3-11E-04	8.51E-05	2.37E-05	6.90E-05
40.0 45.0	4.95E-02 3.57E-02	2.31E-02 1.65E-02	8.55E-03 5.84E-03	2.56E-03 1.69E-03	7.02E-04 4.59E-04	1.90E-04 1.23E-04	5.12E-05 3.28E-05	1.41E-05	4.08E+06
50.0	2.71E-02	1.22E-02	4.16E-03	1.17E-03	3.158-04	8.34E-05	2.21E-05	8•96E-06 5•98E-06	2.57E-06 1.70E-06
60.0	1.76E-02	7.44F-03	2.32E-03	6.30E-04	1.66E-04	4.30E-05	1.12E-05	3.00E-06	8.37E-07
70.0	1.28E-02	4.96E-03	1.44E-03	3.78E-04	9.75E-05	2.49E-05	6.38E-06	1.68E-06	4.62E-07
80.0	1.016-02	3.53E-03	9.63E-04	2.47E-04	6.26E-05	1.57E-05	3.98E-06	1.03E-06	2.76E-07
90.0	8.44E-03	2.66E-03	6.89E-04	1.73E-04	4.30E-05	1.07E-05	2.67E-06	6.77E-07	1.76E-07
100.0	7.36E-03	2 105-07	5 215-01.	4 295-04	7 475-05	7 (35 06	4 905 05	. 745 07	4 405 07
110.0	6.63E-03	2.10E-03 1.72E-03	5.21E-04 4.12E-04	1.28E-04 9.95E-05	3.13E-05 2.40E-05	7.67E-06 5.80E-06	1.89E-06 1.41E-06	4.71E-07 3.44E-07	1.19E-07 8.44E-08
120.0	6.13E-03	1.46E-03	3.405-04	8 • 05E - 05	1.92E-05	4.60E-06	1.11E-06	2.64E-07	6.20E-08
130.0	5.77E-03	1.28E-03	2.91E-04	6.77E-05	1.59E-05	3.79E-06	9.01E-07	2.11E-07	4.79E-08
140.0	5.51E-B3	1.15E-03	2.57E-04	5.90E-05	1.38E-05	3.25E-06	7.65E-07	1.75E-07	3.86E-08
150.0	5.33E-03	1.07E-03	2.34E-04	5.31E-05	1.23E-05	2.89E-06	6.75E-07	1.52E-07	3.21E-08
160.0	5.22E-03	1.01E-03	2.18E-04	4.93E-05	1-14E-05	2.66E-06	6-15E-07	1-38E-07	2.81E-08
170.0 180.0	5.156-03 5.136-03	9.78E-04 9.67E-04	2.10E-04 2.08E-04	4.72E-05 4.64E-05	1.09E-05	2.53E-06	5.84E-07	1.29E-07	2.63E-08
TOTAL	1.35E+08	8.17E-01	4.72E-01	2.618-01	1.06E-05 1.41E-01	2.48E-06 7.59E-02	5.76E-07 4.19E-02	1.25E-07 2.46E-02	2.58E-08 1.60E-02
TRANS	1.30E-01	4.51E-02	1.46E-02	4.50E-03	1.33E-03	3.90E-04	1.15E-04	3.47E-05	1.10E-05
ANGLE	1KEV	2KEV	4KEV	ARGON, 8KEV		32KEV	64KEV	128KEV	256KEV
	1KEV 1.19E+01		4KEV 1.68E+01	ARGON,	Z=18	32KEV 2.28E+01		128KEV 3•25E+01	256KEV 4.71E+01
ANGLE 0.0 0.5	1.19E+01 1.19E+01	2KEV 1.44E+01 1.43E+01	1.68E+01 1.65E+01	ARGON, 8KEV 1.88E+01 1.83E+01	Z=18 16KEV 2.07E+01 1.96E+01	2.28E+01 2.06E+01	64KEV 2.60E+01 2.12E+01	3.25E+01 2.15E+01	4.71E+01 2.02E+01
ANGLE 0.0 0.5 1.0	1.19E+01 1.19E+01 1.18E+01	2KEV 1.44E+01 1.43E+01 1.40E+01	1.68E+01 1.65E+01 1.59E+01	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01	Z=18 16KEV 2.07E+01 1.96E+01 1.69E+01	2.28E+01 2.06E+01 1.55E+01	64KEV 2.60E+01 2.12E+01 1.25E+01	3.25E+01 2.15E+01 8.31E+00	4.71E+01 2.02E+01 4.35E+00
ANGLE 0.0 0.5 1.0 2.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01	2KEV 1.44E+01 1.43E+01 1.40E+01 1.29E+01	1.68E+01 1.65E+01 1.59E+01 1.36E+01	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 1.27E+01	Z=18 16KEV 2.07E+01 1.96E+01 1.69E+01 1.00E+01	2.28E+01 2.06E+01 1.55E+01 6.29E+00	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+00	3.25E+01 2.15E+01 8.31E+00 1.18E+00	4.71E+01 2.02E+01 4.35E+00 4.66E-01
ANGLE 0.0 0.5 1.0 2.0 3.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01	2KEV 1.44E+01 1.43E+01 1.40E+01 1.29E+01 1.13E+01	1.68E+01 1.65E+01 1.59E+01 1.36E+01 1.07E+01	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 1.27E+01 8.35E+00	Z=18 16KEV 2.07E+01 1.96E+01 1.69E+01 1.00E+01 5.05E+00	2.28E+01 2.06E+01 1.55E+01 6.29E+00 2.30E+00	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+00 8.53E-01	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01	4.71E+01 2.02E+01 4.35E+00 4.66E-01 1.28E-01
ANGLE 0.0 0.5 1.0 2.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01	2KEV 1.44E+01 1.43E+01 1.40E+01 1.29E+01	1.68E+01 1.65E+01 1.59E+01 1.36E+01	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 1.27E+01 8.35E+00 5.09E+00	Z=18 16KEV 2.07E+01 1.96E+01 1.69E+01 1.00E+01 5.05E+00 2.46E+00	2.28E+01 2.06E+01 1.55E+01 6.29E+00 2.30E+00 9.36E-01	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+00 8.53E-01 3.33E-01	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01 1.26E-01	4.71E+01 2.02E+01 4.35E+00 4.66E-01 1.28E-01 4.78E-02
ANGLE 0.0 0.5 1.0 2.0 3.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01 9.45E+00	2KEV 1.44E+01 1.43E+01 1.40E+01 1.29E+01 1.13E+01 9.44E+00	1.68E+01 1.65E+01 1.59E+01 1.36E+01 1.07E+01 7.86E+00	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 1.27E+01 8.35E+00	Z=18 16KEV 2.07E+01 1.96E+01 1.69E+01 1.00E+01 5.05E+00	2.28E+01 2.06E+01 1.55E+01 6.29E+00 2.30E+00	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+00 8.53E-01	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01	4.71E+01 2.02E+01 4.35E+00 4.66E-01 1.28E-01
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01 7.45E+00 8.34E+00 7.20E+00 6.11E+00	2KEV 1.44E+01 1.43E+01 1.40E+01 1.29E+01 1.13E+01 7.62E+00 7.62E+00 4.59E+00	1.68E+01 1.65E+01 1.59E+01 1.36E+01 1.07E+01 7.86E+00 5.54E+00 3.82E+00 2.61E+00	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 1.27E+01 8.35E+00 5.09E+00 3.03E+00 1.83E+00 1.14E+00	Z=18 16KEV 2.07E+01 1.96E+01 1.69E+01 1.00E+01 5.05E+00 2.46E+00 1.26E+00 7.00E-01 4.23E-01	2.28E+01 2.06E+01 1.55E+01 6.29E+00 2.30E+00 9.36E-01 4.50E-01	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+00 8.53E-01 3.33E-01 1.63E-01	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01 1.26E-01 6.07E-02	4.71E+01 2.02E+01 4.35E+00 4.66E-01 1.28E-01 4.78E-02 2.11E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01 9.45E+00 8.34E+00 7.20E+00 6.11E+00 5.10E+00	2KEV 1.44E+01 1.43E+01 1.40E+01 1.29E+01 1.13E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00	1.68E+01 1.65E+01 1.59E+01 1.36E+01 1.07E+01 7.86E+00 5.54E+00 3.82E+00 2.61E+00 1.81E+00	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 1.27E+01 8.35E+00 5.09E+00 3.03E+00 1.83E+00 1.14E+00 7.44E-01	Z=18 16KEV 2.07E+01 1.96E+01 1.09E+01 1.00E+01 5.05E+00 2.46E+00 1.26E+00 7.00E-01 4.23E-01 2.75E-01	2.28E+01 2.06E+01 1.55E+01 6.29E+00 2.30E+00 9.36E-01 4.50E-01 2.50E-01 1.53E-01 1.00E-01	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+00 3.33E-01 1.63E-01 9.14E-02 3.51E-02	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02	4.71E+01 2.02E+01 4.35E+00 4.66E-01 1.28E-01 4.78E-02 2.11E-02 1.06E-02 5.84E-03 3.49E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01 9.45E+00 8.34E+00 7.20E+00 6.11E+00 5.10E+00 4.20E+00	2KEV 1.44E+01 1.43E+01 1.40E+01 1.29E+01 1.13E+01 9.44E+00 7.62E+00 4.59E+00 4.59E+00 2.64E+00	1.68E+01 1.65E+01 1.59E+01 1.36E+01 1.07E+01 7.86E+00 5.54E+00 3.82E+00 2.61E+00 1.81E+00 1.27E+00	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 1.27E+01 5.09E+00 3.03E+00 1.14E+00 1.14E+00 5.08E-01	Z=18 16KEV 2.07E+01 1.96E+01 1.00E+01 1.00E+01 2.46E+00 1.26E+00 7.00E-01 4.23E-01 1.89E-01	2.28E+01 2.06E+01 1.55E+01 6.29E+00 2.30E+00 9.36E-01 4.50E-01 2.50E-01 1.53E-01 1.00E-01 6.87E-02	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+01 3.33E-01 1.63E-01 9.14E-02 5.52E-02 2.32E+02	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02 7.17E-03	4.71E+01 2.02E+01 4.35E+00 4.66E-01 1.28E-01 4.78E-02 2.11E-02 1.06E-02 5.84E-03 3.49E-03 2.22E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01 9.45E+00 8.34E+00 7.20E+00 6.11E+00 5.10E+00	2KEV 1.44E+01 1.43E+01 1.40E+01 1.29E+01 1.13E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00	1.68E+01 1.65E+01 1.59E+01 1.36E+01 1.07E+01 7.86E+00 5.54E+00 3.82E+00 2.61E+00 1.81E+00	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 1.27E+01 8.35E+00 5.09E+00 3.03E+00 1.83E+00 1.14E+00 7.44E-01	Z=18 16KEV 2.07E+01 1.96E+01 1.09E+01 1.00E+01 5.05E+00 2.46E+00 1.26E+00 7.00E-01 4.23E-01 2.75E-01	2.28E+01 2.06E+01 1.55E+01 6.29E+00 2.30E+00 9.36E-01 4.50E-01 2.50E-01 1.53E-01 1.00E-01	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+00 3.33E-01 1.63E-01 9.14E-02 3.51E-02	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02	4.71E+01 2.02E+01 4.35E+00 4.66E-01 1.28E-01 4.78E-02 2.11E-02 1.06E-02 5.84E-03 3.49E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01 9.45E+00 8.34E+00 7.20E+00 6.11E+00 5.10E+00 4.20E+00	2KEV 1.44E+01 1.43E+01 1.40E+01 1.29E+01 1.13E+01 9.44E+00 7.62E+00 4.59E+00 4.59E+00 2.64E+00	1.68E+01 1.65E+01 1.59E+01 1.36E+01 1.07E+01 7.86E+00 5.54E+00 3.82E+00 2.61E+00 1.81E+00 1.27E+00	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 1.27E+01 5.09E+00 3.03E+00 1.14E+00 1.14E+00 5.08E-01	Z=18 16KEV 2.07E+01 1.96E+01 1.00E+01 1.00E+01 2.46E+00 1.26E+00 7.00E-01 4.23E-01 1.89E-01	2.28E+01 2.06E+01 1.55E+01 6.29E+00 2.30E+00 9.36E-01 4.50E-01 2.50E-01 1.53E-01 1.00E-01 6.87E-02	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+01 3.33E-01 1.63E-01 9.14E-02 5.52E-02 2.32E+02	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02 7.17E-03	4.71E+01 2.02E+01 4.35E+00 4.66E-01 1.28E-01 4.78E-02 2.11E-02 1.06E-02 5.84E-03 3.49E-03 2.22E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01 9.45E+00 8.34E+00 7.20E+00 6.11E+00 5.10E+00 4.20E+00 3.44E+00	2KEV 1.44E+01 1.43E+01 1.40E+01 1.29E+01 1.13E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00 2.64E+00 2.00E+00	1.68E+01 1.65E+01 1.59E+01 1.36E+01 1.07E+01 7.86E+00 5.54E+00 3.82E+00 2.61E+00 1.81E+00 1.27E+00 9.13E-01 2.52E-01 1.03E-01	ARGON, 8KEV 1.88E+01 1.83E+01 1.27E+01 8.35E+00 5.09E+00 3.03E+00 1.14E+00 7.44E-01 5.08E-01 3.61E-01 1.00E-01 4.01E-02	Z=18 16KEV 2.07E+01 1.96E+01 1.09E+01 1.00E+01 5.05E+00 2.46E+00 7.00E-01 4.23E-01 2.75E-01 1.89E-01 1.35E-01 3.67E-02 1.37E-02	2.28E+01 2.06E+01 1.55E+01 6.29E+00 9.36E-01 4.50E-01 2.50E-01 1.53E-01 1.00E+01 6.87E-02 4.87E-02 4.10E-03	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+00 8.53E-01 3.33E-01 1.63E-01 9.14E-02 5.52E-02 3.51E-02 2.32E-02	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02 7.17E-03	4.71E+01 2.02E+01 4.35E+00 4.66E-01 1.28E-01 4.78E-02 2.11E-02 1.06E-02 5.84E-03 3.49E-03 2.22E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 9.0 10.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01 2.45E+00 8.34E+00 7.20E+00 6.11E+00 5.10E+00 4.20E+00 3.44E+00	2KEV 1.44E+01 1.43E+01 1.40E+01 1.29E+01 1.13E+01 9.44E+00 7.62E+00 4.59E+00 4.59E+00 2.64E+00 2.00E+00	1.68E+01 1.65E+01 1.59E+01 1.36E+01 1.07E+01 7.86E+00 5.54E+00 2.61E+00 1.81E+00 1.27E+00 9.13E-01 2.52E-01 1.03E-01 5.12E-02	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 1.27E+01 1.27E+01 3.35E+00 5.09E+00 3.03E+00 1.14E+00 1.14E+01 5.08E-01 3.61E-01 1.00E-01 4.01E-02 1.93E-02	Z=18 16KEV 2.07E+01 1.96E+01 1.09E+01 1.00E+01 5.05E+00 2.46E+00 7.00E-01 4.23E-01 1.35E-01 3.67E-02 1.37E-02 6.22E-03	2.28E+01 2.06E+01 1.55E+01 6.29E+00 9.36E-01 4.50E-01 2.50E-01 1.53E-01 1.00E+01 6.87E-02 4.87E-02	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+01 3.33E-01 1.63E-01 9.14E-02 5.52E-02 2.32E-02 1.59E-02 3.47E-03 1.16E-03 5.00E-04	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 7.17E-03 4.79E-03	4.71E+01 2.02E+01 4.35E+00 4.66E-01 1.28E-01 4.78E-02 2.11E-02 1.06E-02 5.84E-03 2.22E-03 1.48E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 30.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01 2.45E+00 8.34E+00 7.20E+00 5.10E+00 4.20E+00 3.44E+00 1.22E+00 5.02E-01 2.61E-01 1.57E-01	2KEV 1.44E+01 1.43E+01 1.40E+01 1.29E+01 1.13E+00 7.62E+00 5.97E+00 4.59E+00 2.64E+00 2.00E+00 5.82E-01 2.40E-01 1.23E-01 7.04E-02	1.68E+01 1.65E+01 1.59E+01 1.36E+01 7.86E+00 5.54E+00 2.61E+00 1.81E+00 1.27E+00 9.13E-01 2.52E-01 1.03E-01 5.12E-02 2.88E-02	ARGON, 8KEV 1.88E+01 1.70E+01 1.70E+01 8.35E+00 5.09E+00 3.03E+00 1.8E+00 1.4E+00 7.44E-01 5.08E-01 3.61E-01 4.01E-02 1.93E-02 1.95E-02	Z=18 16KEV 2.07E+01 1.96E+01 1.69E+01 5.05E+00 7.05E+00 7.00E-01 4.23E-01 2.75E-01 1.35E-01 3.67E-02 1.37E-02 6.22E-03 3.23E-03	2.28E+01 2.06E+01 1.55E+01 6.29E+00 9.36E-01 4.50E-01 1.53E-01 1.00E+01 6.87E-02 4.87E-02 1.19E-02 4.10E-03 1.78E-03 9.03E-04	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+00 8.53E-01 1.63E-01 9.14E-02 5.52E-02 3.51E-02 2.32E+02 1.59E-02	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.44E-04 7.15E-05	4.71E+01 2.02E+01 4.35E+00 4.66E-01 1.28E-01 4.78E-02 2.11E-02 1.06E-02 5.84E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 1.02E-04 4.30E-05 2.12E-05
ANGLE 0.0 0.5 1.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 25.0 35.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01 2.45E+00 8.34E+00 7.20E+00 4.20E+00 4.20E+00 3.44E+00 1.22E+00 5.02E-01 2.61E-01 1.57E-01 1.01E-01	2KEV 1.44E+01 1.43E+01 1.40E+01 1.13E+01 9.44E+00 7.62E+00 4.97E+00 3.49E+00 2.64E+00 2.64E+00 2.00E+00 1.23E-01 1.23E-01 1.23E-01	1.68E+01 1.65E+01 1.59E+01 1.36E+01 1.36E+00 5.54E+00 3.82E+00 2.61E+00 1.81E+00 1.27E+00 9.13E-01 2.52E-01 1.03E-01 2.12E-02 2.88E-02 1.78E-02	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 1.27E+01 8.35E+00 5.09E+00 3.03E+00 1.83E+01 5.08E-01 3.61E-01 1.00E-01 4.01E-02 1.93E-02 1.95E-02 6.26E-03	Z=18 16KEV 2.07E+01 1.96E+01 1.09E+01 1.00E+01 5.05E+00 2.46E+00 1.26E+00 1.26E+00 1.26E+01 2.75E-01 1.35E-01 3.67E-02 1.37E-02 3.23E-03 1.35E-03	2.28E+01 2.06E+01 1.55E+01 6.29E+00 2.30E+00 9.36E-01 4.50E-01 1.53E-01 1.00E+01 6.87E-02 4.87E-02 4.10E-03 1.78E-03 9.03E-04 5.10E-04	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+00 8.53E-01 3.33E-01 1.63E-01 9.14E-02 3.51E-02 2.32E+02 1.59E-02 3.47E-03 1.16E-03 5.00E-04 1.40E-04	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.44E-04 7.15E-05 3.96E-05	4.71E+01 2.02E+01 4.35E+001 4.66E-01 1.28E-01 4.78E-82 2.11E-02 5.84E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 4.30E-05 1.16E-05
ANGLE 0.0 0.5 1.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 20.0 25.0 25.0 30.0 40.0	1.19E+01 1.19E+01 1.18E+01 1.04E+01 2.45E+00 8.34E+00 7.20E+00 6.11E+00 5.10E+00 4.20E+00 3.44E+00 1.22E+00 5.02E-01 2.61E-01 1.57E-01 1.51E-01 6.82E-02	2KEV 1.44E+01 1.43E+01 1.49E+01 1.13E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00 2.64E+00 2.64E+01 1.23E-01 7.04E-01 1.23E-01 7.04E-02 2.92E-02	1.68E+01 1.65E+01 1.59E+01 1.36E+01 1.07E+01 7.86E+00 5.54E+00 3.82E+00 2.61E+00 1.27E+00 9.13E-01 2.52E-01 1.03E-01 5.12E-02 2.88E-02 1.78E-02 1.18E-02	ARGON, 8KEV 1.88E+01 1.83E+01 1.27E+01 8.35E+00 5.09E+00 3.03E+00 1.83E+00 1.14E+00 7.44E-01 5.08E-01 3.61E-01 1.00E-01 4.01E-02 1.93E-02 1.05E-03 3.99E-03	Z=18 16KEV 2.07E+01 1.96E+01 1.09E+01 5.05E+00 2.46E+00 7.00E-01 2.75E-01 1.89E-01 1.35E-01 3.67E-02 6.22E-03 3.23E-03 1.14E-03	2.28E+01 2.06E+01 1.55E+01 6.29E+00 9.36E-01 4.50E-01 2.50E-01 1.53E-01 1.53E-01 1.687E-02 4.87E-02 4.10E-03 1.78E-03 9.03E-04 3.12E-04	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+01 3.33E-01 1.63E-02 3.51E-02 2.32E+02 1.59E-02 3.47E-03 1.16E-03 5.00E-04 2.51E-04 8.51E-05	3.25E+01 2.15E+01 8.31E+00 1.18E+00 3.15E-01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.44E-04 7.15E-05 2.37E-05	4.71E+01 2.02E+01 4.35E+001 4.66E-01 1.28E-01 4.78E-02 1.06E-02 5.84E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 4.30E-05 2.12E-05 6.88E-06
ANGLE 0.0 0.5 1.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 25.0 35.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01 2.45E+00 8.34E+00 7.20E+00 4.20E+00 4.20E+00 3.44E+00 1.22E+00 5.02E-01 2.61E-01 1.57E-01 1.01E-01	2KEV 1.44E+01 1.43E+01 1.49E+01 1.13E+01 9.44E+00 7.62E+00 4.59E+00 2.64E+00 2.64E+00 2.00E+00 5.82E-01 1.23E-01 7.04E-02 4.38E-02 4.38E-02 2.92E-02 2.07E-02	1.68E+01 1.65E+01 1.59E+01 1.36E+01 7.86E+00 5.54E+00 3.82E+00 2.61E+00 1.27E+00 9.13E-01 2.52E-01 1.03E-01 5.12E-02 2.88E-02 1.78E-02 2.82E-03	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 8.35E+00 5.09E+00 3.03E+00 1.14E+00 7.44E-01 5.08E-01 3.61E-01 1.00E-01 4.01E-02 1.93E-02 1.93E-02 1.95E-02 3.99E-03 2.69E-03	Z=18 16KEV 2.07E+01 1.96E+01 1.09E+01 1.00E+01 5.05E+00 2.46E+00 1.26E+01 4.23E-01 4.23E-01 1.35E-01 3.67E-02 1.37E-02 6.22E-03 3.23E-03 1.35E-03 1.35E-03 7.51E-04	2.28E+01 2.06E+01 1.55E+01 6.29E+00 9.36E-01 4.50E-01 2.50E-01 1.53E-01 1.00E+01 6.87E-02 4.87E-02 4.10E-03 1.78E-03 9.03E-04 5.10E-04 2.02E-04	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+01 3.33E-01 1.63E-01 9.14E-02 3.51E-02 2.32E+02 1.59E-02 3.47E-03 1.16E-03 5.00E-04 2.51E-04 1.40E-04 1.40E-05 5.47E-05	3.25E+01 2.15E+01 8.31E+00 1.18E+00 1.18E+01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.44E-04 7.15E-05 2.37E-05 1.51E-05	4.71E+01 2.02E+01 4.35E+001 4.66E-01 1.28E-01 4.78E-02 1.06E-02 1.06E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 4.30E-05 2.12E-05 6.88E-06 4.35E-06
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 25.0 25.0 35.0 45.0	1.19E+01 1.18E+01 1.12E+01 1.12E+01 2.45E+00 8.34E+00 7.20E+00 5.10E+00 4.20E+00 3.44E+00 1.22E+00 5.02E-01 2.61E-01 1.57E-01 6.82E-02 4.80E-02	2KEV 1.44E+01 1.43E+01 1.49E+01 1.13E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00 2.64E+00 2.64E+01 1.23E-01 7.04E-01 1.23E-01 7.04E-02 2.92E-02	1.68E+01 1.65E+01 1.59E+01 1.36E+01 1.07E+01 7.86E+00 5.54E+00 3.82E+00 2.61E+00 1.27E+00 9.13E-01 2.52E-01 1.03E-01 5.12E-02 2.88E-02 1.78E-02 1.18E-02	ARGON, 8KEV 1.88E+01 1.83E+01 1.27E+01 8.35E+00 5.09E+00 3.03E+00 1.83E+00 1.14E+00 7.44E-01 5.08E-01 3.61E-01 1.00E-01 4.01E-02 1.93E-02 1.05E-03 3.99E-03	Z=18 16KEV 2.07E+01 1.96E+01 1.09E+01 5.05E+00 2.46E+00 7.00E-01 2.75E-01 1.89E-01 1.35E-01 3.67E-02 6.22E-03 3.23E-03 1.14E-03	2.28E+01 2.06E+01 1.55E+01 6.29E+00 9.36E-01 4.50E-01 2.50E-01 1.53E-01 1.53E-02 4.87E-02 4.10E-03 1.78E-03 9.03E-04 5.10E-04 3.12E-04 2.02E-04 1.38E-04	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+01 3.33E-01 1.63E-01 9.14E-02 5.52E-02 2.32E-02 1.59E-02 3.47E-03 5.00E-04 2.51E-04 1.40E-04 8.51E-05 3.69E-05	3.25E+01 2.15E+01 8.31E+00 1.18E+00 1.18E+01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.85E-02 1.7E-03 4.79E-03 1.01E-03 3.38E-04 1.44E-04 7.15E-05 3.96E-05 2.37E-05 1.51E-05 1.51E-05	4.71E+01 2.02E+01 4.35E+00 4.66E-01 1.28E-01 4.78E-02 2.11E-02 1.06E-02 5.84E-03 2.22E-03 1.48E-03 3.12E-04 4.30E-05 2.12E-05 1.16E-05 4.86E-06 4.85E-06 2.89E-06
ANGLE 0.05 0.50 1.00 3.00 5.00 5.00 6.00 10.00 15.00 20.00 45.00 45.00 60.00 70.00 60	1.19E+01 1.19E+01 1.12E+01 1.12E+01 1.04E+01 3.45E+00 8.34E+00 7.20E+00 5.10E+00 4.20E+00 3.44E+00 1.22E+00 5.02E-01 2.61E-01 1.57E-01 6.82E-02 4.80E-02 3.51E-02 1.49E-02	2KEV 1.44E+01 1.43E+01 1.49E+01 1.29E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00 2.64E+00 2.64E+01 1.23E-01 1.23E-01 2.40E-01 1.23E-01 2.40E-01 1.25E-02 2.92E-02 2.97E-02 2.97E-02 3.72E-03	1.68E+01 1.65E+01 1.59E+01 1.36E+01 7.86E+00 5.54E+00 3.82E+00 1.81E+00 1.27E+00 9.13E-01 2.52E-01 1.03E-01 2.52E-01 1.03E-01 2.12E-02 2.88E-02 1.18E-02 8.28E-03 6.04E-03 2.27E-03	ARGON, 8KEV 1.88E+01 1.83E+01 1.72E+01 8.35E+00 5.09E+00 3.03E+00 1.83E+00 1.14E+00 7.44E-01 5.08E-01 3.61E-01 1.00E-01 4.01E-02 1.93E-02 1.95E-02 3.99E-03 3.99E-03 2.69E-03 1.89E-03 1.89E-03 6.25E-04	Z=18 16KEV 2.07E+01 1.96E+01 1.00E+01 1.00E+00 2.46E+00 7.00E-01 2.75E-01 1.89E-01 1.35E-01 3.67E-02 4.23E-03 3.23E-03 3.23E-03 1.14E-03 7.51E-04 5.17E-04 1.62E-04	2.28E+01 2.06E+01 1.55E+01 6.29E+00 9.36E-01 4.50E-01 2.50E-01 1.53E-01 1.00E+01 6.87E-02 4.87E-02 4.10E-03 1.78E-03 9.03E-04 5.10E-04 2.02E-04	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+01 3.33E-01 1.63E-01 9.14E-02 3.51E-02 2.32E+02 1.59E-02 3.47E-03 1.16E-03 5.00E-04 2.51E-04 1.40E-04 1.40E-05 5.47E-05	3.25E+01 2.15E+01 8.31E+00 1.18E+00 1.18E+01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.44E-04 7.15E-05 2.37E-05 1.51E-05	4.71E+01 2.02E+01 4.35E+001 4.66E-01 1.28E-01 4.78E-02 1.06E-02 1.06E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 4.30E-05 2.12E-05 6.88E-06 4.35E-06
ANGLE 0.0 0.5 1.0 2.0 4.0 5.0 6.0 9.0 10.0 25.0 25.0 45.0 60.0 60.0 80.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.2E+01 2.45E+00 8.34E+00 7.20E+00 5.10E+00 4.20E+00 3.44E+00 1.22E+00 5.02E-01 2.61E-01 1.57E-01 1.01E-01 6.02E-02 4.80E-02 4.80E-02 1.13E-02 1.49E-02 1.49E-02 1.17E-02	2KEV 1.44E+01 1.43E+01 1.49E+01 1.29E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00 2.64E+00 2.00E+00 5.82E-01 1.23E-01 7.04E-02 4.59E-02 2.92E-02 2.92E-02 2.92E-03 5.72E-03 5.72E-03 5.72E-03 5.72E-03	1.68E+01 1.65E+01 1.59E+01 1.36E+01 7.86E+00 5.54E+00 3.82E+00 2.61E+00 1.81E+00 1.27E+00 9.13E-01 2.52E-01 1.03E-01 5.12E-02 2.88E-02 1.18E-02 8.28E-03 6.04E-03 3.54E-03 1.57E-03	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 8.35E+00 5.09E+00 3.03E+00 1.83E+00 1.14E+00 7.44E-01 5.08E-01 3.61E-01 1.00E-01 4.01E-02 1.93E-02 1.05E-03 3.99E-03 2.69E-03 1.89E-03 1.89E-03 1.89E-03 4.12E-04	Z=18 16KEV 2.07E+01 1.96E+01 1.09E+01 1.00E+00 2.46E+00 7.00E-01 2.75E-01 1.89E-01 1.35E-01 3.67E-02 6.22E-03 3.23E-03 1.14E-03 7.51E-04 5.17E-04 2.74E-04 1.05E-04	2.28E+01 2.06E+01 1.55E+01 6.29E+00 9.36E-01 4.50E-01 2.50E-01 1.53E-01 1.00E-01 6.87E-02 4.10E-03 1.78E-03 9.03E-04 3.12E-04 2.02E-04 1.38E-04 7.17E-05 2.65E-05	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+01 3.33E-01 1.63E-02 3.51E-02 2.32E+02 3.51E-02 2.32E+02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-03 5.00E-04 2.51E-05 5.47E-05 3.69E-05 1.88E-05 1.88E-05 6.74E-06	3.25E+01 2.15E+01 8.31E+00 1.18E+01 1.18E+01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.44E-04 7.15E-05 2.37E-05 1.51E-05 1.51E-05 5.07E-06 1.75E-06	4.71E+01 2.02E+01 4.36E+01 1.28E-01 4.78E-02 1.06E-02 1.84E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 1.02E-04 1.02E-05 1.16E-05 6.88E-06 4.35E-06 4.35E-06 1.43E-06 1.43E-06
ANGLE 0.05 0.50 1.00 3.00 5.00 5.00 6.00 10.00 15.00 20.00 45.00 45.00 60.00 70.00 60	1.19E+01 1.19E+01 1.12E+01 1.12E+01 1.04E+01 3.45E+00 8.34E+00 7.20E+00 5.10E+00 4.20E+00 3.44E+00 1.22E+00 5.02E-01 2.61E-01 1.57E-01 6.82E-02 4.80E-02 3.51E-02 1.49E-02	2KEV 1.44E+01 1.43E+01 1.49E+01 1.29E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00 2.64E+00 2.64E+01 1.23E-01 1.23E-01 2.40E-01 1.23E-01 2.40E-01 1.25E-02 2.92E-02 2.97E-02 2.97E-02 3.72E-03	1.68E+01 1.65E+01 1.59E+01 1.36E+01 7.86E+00 5.54E+00 3.82E+00 1.81E+00 1.27E+00 9.13E-01 2.52E-01 1.03E-01 2.52E-01 1.03E-01 2.12E-02 2.88E-02 1.18E-02 8.28E-03 6.04E-03 2.27E-03	ARGON, 8KEV 1.88E+01 1.83E+01 1.72E+01 8.35E+00 5.09E+00 3.03E+00 1.83E+00 1.14E+00 7.44E-01 5.08E-01 3.61E-01 1.00E-01 4.01E-02 1.93E-02 1.95E-02 3.99E-03 3.99E-03 2.69E-03 1.89E-03 1.89E-03 6.25E-04	Z=18 16KEV 2.07E+01 1.96E+01 1.00E+01 1.00E+00 2.46E+00 7.00E-01 2.75E-01 1.89E-01 1.35E-01 3.67E-02 4.23E-03 3.23E-03 3.23E-03 1.14E-03 7.51E-04 5.17E-04 1.62E-04	2.28E+01 2.06E+01 1.55E+01 6.29E+00 2.30E+00 9.36E-01 4.50E-01 1.53E-01 1.53E-01 1.687E-02 4.87E-02 4.10E-03 1.78E-03 9.03E-04 3.12E-04 2.02E-04 1.38E-04 2.02E-04 1.38E-05 4.17E-05	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+01 3.03E-01 1.63E-02 3.51E-02 2.32E+02 3.51E-03 5.00E-04 8.51E-05 3.69E-05 1.88E-05 1.88E-05 1.08E-05	3.25E+01 2.15E+01 8.31E+00 1.18E+00 1.18E-01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.44E-04 7.15E-05 2.37E-05 1.51E-05 1.01E-05 2.37E-06 2.85E-06	4.71E+01 2.02E+01 4.35E+001 4.66E-01 1.28E-01 4.78E-02 1.06E-02 1.06E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 4.30E-05 6.88E-06 4.35E-06 4.35E-06 4.35E-06 4.43E-06 7.86E-07
ANGLE 0.05 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.12E+01 3.45E+00 8.34E+00 5.10E+00 4.20E+00 3.44E+00 1.22E+00 5.02E-01 2.61E-01 1.57E-01 1.57E-01 6.82E-02 4.80E-02 3.13E-02 1.17E-02 1.02E-02 9.45E-03	2KEV 1.44E+01 1.43E+01 1.49E+01 1.29E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00 2.64E+00 2.00E+00 5.82E-01 1.23E-01 7.04E-02 4.59E-02 2.92E-02 2.92E-02 2.92E-03 5.72E-03 5.72E-03 5.72E-03 5.72E-03	1.68E+01 1.65E+01 1.59E+01 1.36E+01 7.86E+00 5.54E+00 3.82E+00 2.61E+00 1.81E+00 1.27E+00 9.13E-01 2.52E-01 1.03E-01 5.12E-02 2.88E-02 1.18E-02 8.28E-03 6.04E-03 3.54E-03 1.57E-03	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 8.35E+00 5.09E+00 3.03E+00 1.83E+00 1.14E+00 7.44E-01 5.08E-01 3.61E-01 1.00E-01 4.01E-02 1.93E-02 1.05E-03 3.99E-03 2.69E-03 1.89E-03 1.89E-03 1.89E-03 4.12E-04	Z=18 16KEV 2.07E+01 1.96E+01 1.09E+01 1.00E+00 2.46E+00 7.00E-01 2.75E-01 1.89E-01 1.35E-01 3.67E-02 6.22E-03 3.23E-03 1.14E-03 7.51E-04 5.17E-04 2.74E-04 1.05E-04	2.28E+01 2.06E+01 1.55E+01 6.29E+00 9.36E-01 4.50E-01 2.50E-01 1.53E-01 1.00E-01 6.87E-02 4.10E-03 1.78E-03 9.03E-04 3.12E-04 2.02E-04 1.38E-04 7.17E-05 2.65E-05	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+01 3.33E-01 1.63E-02 3.51E-02 2.32E+02 3.51E-02 2.32E+02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-03 5.00E-04 2.51E-05 5.47E-05 3.69E-05 1.88E-05 1.88E-05 6.74E-06	3.25E+01 2.15E+01 8.31E+00 1.18E+01 1.18E+01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.44E-04 7.15E-05 2.37E-05 1.51E-05 1.51E-05 5.07E-06 1.75E-06	4.71E+01 2.02E+01 4.35E+001 4.66E-01 1.28E-01 4.78E-02 1.06E-02 1.06E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 4.30E-05 2.12E-05 6.88E-06 4.35E-06 1.43E-07 4.70E-07
ANGLE 0.05 1.0 0.5 1.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.04E+01 9.45E+00 8.34E+00 7.20E+00 5.10E+00 4.20E+00 3.44E+00 1.22E+00 5.02E-01 2.61E-01 1.57E-01 6.82E-02 4.80E-02 3.51E-02 1.17E-02 1.02E-02 9.45E-03 9.26E-03	2KEV 1.44E+01 1.43E+01 1.49E+01 1.29E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00 2.64E+00 2.64E+00 2.64E-01 1.23E-01 7.04E-02 2.92E-02 2.92E-02 2.92E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03	1.68E+01 1.65E+01 1.59E+01 1.36E+01 7.86E+00 5.54E+00 3.82E+00 1.81E+00 1.27E+00 9.13E-01 2.52E-01 1.03E-01 2.52E-01 1.03E-02 2.88E-02 1.18E-02 8.28E-03 6.04E-03 3.227E-03 1.57E-03 1.57E-03 8.83E-04 7.09E-04	ARGON, 8KEV 1.88E+01 1.83E+01 1.70E+01 1.27E+01 1.27E+01 2.35E+00 1.83E+00 1.83E+00 1.83E+00 1.14E+01 1.00E-01 4.01E-02 1.05E-02 1.05E-03 3.99E-03 2.69E-03 1.03E-03 4.01E-04 2.17E-04 2.17E-04 2.17E-04 1.69E-04	Z=18 16KEV 2.07E+01 1.96E+01 1.96E+01 1.00E+01 1.00E+00 2.46E+00 1.26E+01 2.75E-01 1.89E-01 1.37E-01 3.67E-02 6.22E-03 3.23E-03 1.14E-03 7.51E-04 1.62E-04 1.05E-04 1.05E-05 5.31E-05 4.09E-05	2.28E+01 2.06E+01 1.55E+01 6.29E+00 2.30E+00 9.36E-01 4.50E-01 1.50E-01 1.50E-01 1.50E-01 1.50E-02 4.87E-02 4.10E-03 1.78E-03 9.03E-04 3.12E-04 2.02E-04 1.38E-05 1.30E-05 1.30E-05 1.30E-05 9.87E-06	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+01 3.03E-01 1.63E-02 3.51E-02 2.32E+02 3.51E-02 2.32E+02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-03 5.00E-04 2.51E-04 8.51E-05 5.47E-06 4.52E-06	3.25E+01 2.15E+01 8.31E+00 1.18E+00 1.18E+01 1.26E-01 6.07E-02 3.23E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.44E-04 7.15E-05 2.37E-05 1.51E-05 1.51E-05 1.01E-05 1.01E-05 1.01E-06 2.85E-06 1.75E-06	4.71E+01 2.02E+01 4.36E+01 1.28E-01 4.78E-02 2.11E-02 5.84E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 1.02E-04 1.02E-05 6.88E-06 4.30E-05 6.88E-06 4.35E-06 4.35E-06 7.86E-07 4.70E-07
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ANGLE 0.0 0.5 1.0 3.0 4.0 5.0 9.0 15.0 20.0 15.0 20.0 35.0 40.0 15.0 20.0 15.0 20.0 15.0 10.0	1.19E+01 1.19E+01 1.18E+01 1.18E+01 1.18E+01 1.18E+01 1.18E+01 1.18E+01 2.45E+00 8.34E+00 5.10E+00 4.20E+00 5.10E+00 1.22E+00 1.22E+00 1.57E-01 1.57E-01 1.57E-01 1.57E-01 1.57E-02 1.49E-02 1.49E-02 1.49E-02 1.49E-02 1.49E-02 1.49E-02 1.49E-02 1.49E-03 9.45E-03 9.45E-03 9.46E-03 9.68E-03	2KEV 1.44E+01 1.43E+01 1.49E+01 1.23E+01 9.44E+00 7.62E+00 4.59E+00 3.49E+00 2.64E+00 2.64E+00 5.82E-01 1.23E-01 1.23E-01 1.23E-01 1.23E-01 1.23E-01 1.23E-01 1.23E-01 1.23E-02 2.07E-03 6.72E-03 5.72E-03 5.72E-03 3.34E-03 3.34E-03 2.54E-03 2.54E-03 2.54E-03 3.34E-03 2.54E-03 3.34E-03 2.54E-03 3.34E-03 2.54E-03	1.68E+01 1.65E+01 1.65E+01 1.36E+01 1.36E+00 5.54E+00 2.61E+00 1.81E+00 1.81E+00 1.27E+01 2.7E+01 2.52E-01 1.03E-01 2.52E-01 1.03E-02 1.78E-02 1.78E-02 1.78E-03 3.54E-03	ARGON, 8KEV 1.88E+01 1.83E+01 1.27E+01 8.35E+00 5.09E+00 3.03E+00 1.83E+01 1.4E+01 5.08E-01 1.00E-01 4.01E-02 1.93E-02 1.93E-02 1.95E-02 1.95E-03 3.99E-03 1.02E-01 1.02E-01 1.03E-01 1.05E-02 1.05E-02 1.05E-02 1.05E-03 1.05E-04	Z=18 16KEV 2.07E+01 1.96E+01 1.96E+01 1.00E+00 2.46E+00 1.26E+00 1.26E+01 2.75E-01 1.83E-01 3.67E-02 6.22E-03 1.85E-03 1.85E-03 1.85E-04 2.74E-04 1.62E-04 1.62E-04 1.62E-04 1.62E-05 5.31E-05 5.31E-05 5.39E-05 5.39E-05 5.39E-05 2.74E-05	2.28E+01 2.06E+01 1.55E+00 2.30E+00 9.36E-01 4.50E-01 1.53E-01 1.00E+01 6.87E-02 4.87E-02 4.10E-03 1.78E-03 1.78E-03 1.78E-04 2.02E-04 2.12E-04 2.12E-04 2.12E-05 4.17E-05	64KEV 2.60E+01 2.12E+01 1.02E+01 3.03E-01 3.03E-01 1.63E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.61E-04 4.51E-05 5.47E-05 5.47E-05 5.47E-05 5.47E-05 5.47E-05 5.47E-05 5.47E-05 5.47E-06 4.52E-06 4.52E-06 4.53E-06 1.88E-06 1.88E-06 1.88E-06 1.88E-06 1.88E-06 1.88E-06 1.88E-06 1.88E-06	3.25E+01 2.15E+01 8.31E+00 1.18E+00 1.18E+01 1.26E-01 6.07E-02 3.23E-02 1.85E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.44E-04 7.15E-05 1.51E-05 1.51E-05 1.51E-06 1.75E-06 1.75E-06 1.75E-06 7.96E-07 5.85E-07 5.85E-07 5.85E-07 5.85E-07 5.85E-07 5.85E-07 5.85E-07	4.71E+01 2.02E+01 4.36E+01 1.28E-01 4.78E-02 2.11E-02 5.84E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 1.02E-04 4.30E-05 6.88E-06 4.35E-06 4.35E-06 4.35E-07 3.02E-07 2.04E-07 1.06E-07 1.06E-07 8.15E-08
ANGLE 0.50 0.00 0.50 0.00 0.00 0.00 0.00 0.0	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.12E+01 1.45E+00 8.34E+00 7.20E+00 5.10E+00 4.20E+00 3.44E+00 1.22E+00 5.02E-01 2.61E-01 1.57E-01 6.82E-02 4.80E-02 3.51E-02 1.17E-02 1.17E-02 1.02E-02 9.45E-03 9.26E-03 9.26E-03 9.38E-03 1.00E-02	2KEV 1.44E+01 1.43E+01 1.49E+01 1.29E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00 2.64E+00 2.64E+00 2.64E-01 1.23E-01 1.23E-01 1.24E-02 2.92E-02 2.92E-02 2.92E-03 3.48E-03	1.68E+01 1.65E+01 1.65E+01 1.36E+01 1.36E+00 5.54E+00 3.82E+00 2.61E+00 1.81E+00 1.81E+00 1.81E+00 1.81E+00 1.81E+00 2.72E+01 2.72E+01 2.72E+01 2.73E-01 2.82E-02 1.18E-02 1.18E-02 1.18E-03 3.84E-03	ARGON, 8KEV 1.88E+01 1.83E+01 1.72FE+01 8.35E+00 5.09E+00 3.03E+00 1.83E+01 5.08E-01 3.61E-01 1.00E-01 4.01E-02 1.93E-02 6.26E-03 3.99E-03 1.89E-03 1.89E-03 1.89E-04 2.17E-04 2.17E-04 1.38E-04 1.38E-04 1.38E-04 1.38E-04 1.38E-04	Z=18 16KEV 2.07E+01 1.96E+01 1.96E+01 1.00E+00 2.46E+00 1.26E+00 1.26E+01 2.75E-01 1.85E-01 1.87E-01 3.67E-03 3.23E-03 1.35E-03 1.35E-04 2.75E-04 2.75E-04 2.75E-05 5.17E-04 1.05E-04 1.05E-05 1.0	2.28E+01 2.06E+01 1.55E+01 6.29E+00 9.36E-01 4.50E-01 1.50E-01 1.00E-01 6.87E-02 4.87E-02 4.10E-03 1.78E-03 1.78E-04 2.12E-04 2.12E-04 2.13E-04 2.15E-05 1.38E-05 1.38E-05 1.38E-05 1.38E-05 1.38E-05 1.38E-05 1.58E-05 1.58E-05 1.58E-05 1.58E-05 1.58E-05 1.58E-06 5.56E-06	64KEV 2.60E+01 1.21E+01 1.22E+01 3.03E+01 3.03E+01 1.62E+02 3.53E-01 1.62E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-04 1.59E-03 1.16E-04 8.51E-05 1.69E-05 1.08E-05 1.08E-06 4.52E-06 3.21E-06 4.52E-06 1.30E-06 1.30E-06 1.30E-06	3.25E+01 2.15E+01 8.31E+00 1.18E+00 1.18E-01 1.26E-01 6.07E-02 3.23E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.44E-05 3.96E-05 2.37E-05 1.01E-05 2.37E-05 1.01E-05 7.96E-05 2.37E-06 1.15E-06 1.15E-06 7.96E-07 4.48E-07 4.48E-07 4.48E-07 4.57E-07 4.57E-07 4.97E-07	4.71E+01 2.02E+01 4.35E+001 4.35E+001 4.78E-02 1.06E-02 1.06E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 4.30E-05 6.88E-06 4.35E-06 4.35E-06 7.86E-07 4.70E-07 3.02E-07 2.04E-07 1.06E-07 1.06E-07 1.06E-07 1.06E-08 6.50E-08
ANGLE 0.0 0.5 1.0 3.0 4.0 5.0 9.0 15.0 20.0 15.0 20.0 35.0 40.0 15.0 20.0 15.0 20.0 15.0 10.0	1.19E+01 1.19E+01 1.18E+01 1.18E+01 1.18E+01 1.18E+01 1.18E+01 1.18E+01 2.45E+00 8.34E+00 5.10E+00 4.20E+00 5.10E+00 1.22E+00 1.22E+00 1.57E-01 1.57E-01 1.57E-01 1.57E-01 1.57E-02 1.49E-02 1.49E-02 1.49E-02 1.49E-02 1.49E-02 1.49E-02 1.49E-02 1.49E-03 9.45E-03 9.45E-03 9.46E-03 9.68E-03	2KEV 1.44E+01 1.43E+01 1.49E+01 1.29E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00 2.64E+00 2.64E+00 2.64E+01 1.23E-01 1.23E-01 1.23E-01 2.40E-01 1.23E-02 2.92E-02 2.92E-02 2.92E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03	1.68E+01 1.65E+01 1.65E+01 1.36E+01 1.36E+00 5.54E+00 5.54E+00 1.81E+00 1.81E+00 1.27E+01 2.61E+00 1.27E+01 2.52E-01 1.03E-01 2.88E-02 1.18E-02 8.28E-02 1.18E-02 8.28E-03 6.04E-03 2.27E-03 1.57E-03 1.57E-03 8.83E-04 7.09E-04 5.11E-04 4.16E-04	ARGON, 8KEV 1.88E+01 1.83E+01 1.72FE+01 8.35E+00 5.09E+00 3.03EE+00 1.83EE+01 3.61E-01 1.00E-02 1.93E-02 1.05E-02 1.05E-02 1.05E-03 3.99E-03 2.69E-03 3.99E-03 2.69E-03 2.69E-04 4.12E-04 2.17E-04 2.17E-04 2.17E-04 2.17E-04 2.17E-04 2.17E-04 2.17E-04 2.17E-04 2.28E-05	Z=18 16KEV 2.07E+01 1.96E+01 1.96E+01 1.00E+01 1.0	2.28E+01 2.06E+01 1.55E+01 6.29E+00 9.36E-01 4.50E-01 1.50E-01 1.50E-01 1.50E-01 1.50E-01 1.50E-01 1.50E-01 1.50E-01 1.50E-01 1.50E-02 4.10E-03 1.78E-03 9.03E-04 2.02E-04 1.38E-04 2.02E-04 1.7E-05 2.65E-05 1.80E-05 1.80E-05 1.80E-05 1.80E-06 6.47E-06 6.47E-06 4.94E-06	64KEV 2.60E+01 2.12E+01 1.25E+01 3.02E+01 3.03E-01 1.64E-02 3.51E-02 2.32E-02 2.32E-02 2.32E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-04 4.51E-05 5.60E-04 4.51E-05 5.674E-05 5.674E-05 6.74E-06 4.52E-06 1.88E-06 1.53E-06 1.53E-06 1.53E-06 1.54E-06 1.54E-06 1.54E-06 1.54E-06 1.54E-06 1.54E-06 1.54E-06	3.25E+01 2.15E+01 8.31E+00 1.18E+00 1.18E-01 1.26E-01 6.07E-02 3.23E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.45E-05 2.37E-05 1.51E-05 1.51E-05 1.51E-05 1.51E-05 1.75E-06 1.75E+06 1.75E+06 1.75E+06 1.75E+07 2.87E-07 2.87E-07 2.57E-07 2.57E-07	4.71E+01 2.02E+01 4.35E+01 4.35E+01 4.78E-02 1.06E-02 1.06E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 4.30E-05 6.88E-06 4.35E-06 4.35E-06 4.35E-06 7.86E-07 7.02E-07 7.02E-07 7.02E-07 7.02E-07 7.02E-07 7.02E-07 7.03E-07 7.04E-07 7.04E-07 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08
ANGLE 0.50 1.00 0.50 1.00 0.00 0.00	1.19E+01 1.19E+01 1.18E+01 1.12E+01 1.12E+01 1.45E+00 8.34E+00 7.20E+00 5.10E+00 4.20E+00 3.44E+00 1.22E+00 5.02E-01 2.61E-01 1.57E-01 1.57E-01 6.82E-02 4.80E-02 3.51E-02 1.49E-02 1.17E-02 1.17E-02 1.02E-03 9.26E-03 9.38E-03 9.38E-03 1.00E-02 1.04E-02	2KEV 1.44E+01 1.43E+01 1.49E+01 1.29E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00 2.64E+00 2.64E+00 2.64E-01 1.23E-01 1.23E-01 1.24E-02 2.92E-02 2.92E-02 2.92E-03 3.48E-03	1.68E+01 1.65E+01 1.65E+01 1.36E+01 1.36E+00 5.54E+00 3.82E+00 2.61E+00 1.81E+00 1.81E+00 1.81E+00 1.81E+00 1.81E+00 2.72E+01 2.72E+01 2.72E+01 2.73E-01 2.82E-02 1.18E-02 1.18E-02 1.18E-03 3.84E-03	ARGON, 8KEV 1.88E+01 1.83E+01 1.72FE+01 8.35E+00 5.09E+00 3.03E+00 1.83E+01 5.08E-01 3.61E-01 1.00E-01 4.01E-02 1.93E-02 6.26E-03 3.99E-03 1.89E-03 1.89E-03 1.89E-04 2.17E-04 2.17E-04 1.38E-04 1.38E-04 1.38E-04 1.38E-04 1.38E-04	Z=18 16KEV 2.07E+01 1.96E+01 1.96E+01 1.00E+00 2.46E+00 1.26E+00 1.26E+01 2.75E-01 1.85E-01 1.87E-01 3.67E-03 3.23E-03 1.35E-03 1.35E-04 2.75E-04 2.75E-04 2.75E-05 5.17E-04 1.05E-04 1.05E-05 1.0	2.28E+01 2.06E+01 1.55E+01 6.29E+00 9.36E-01 4.50E-01 1.50E-01 1.00E-01 6.87E-02 4.87E-02 4.10E-03 1.78E-03 1.78E-04 2.12E-04 2.12E-04 2.13E-04 2.15E-05 1.38E-05 1.38E-05 1.38E-05 1.38E-05 1.38E-05 1.38E-05 1.58E-05 1.58E-05 1.58E-05 1.58E-05 1.58E-05 1.58E-06 5.56E-06	64KEV 2.60E+01 1.21E+01 1.22E+01 3.03E+01 3.03E+01 1.62E+02 3.53E-01 1.62E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-04 1.59E-03 1.16E-04 8.51E-05 1.69E-05 1.08E-05 1.08E-06 4.52E-06 3.21E-06 4.52E-06 1.30E-06 1.30E-06 1.30E-06	3.25E+01 2.15E+01 8.31E+00 1.18E+01 1.18E-01 1.26E-01 6.07E-02 1.85E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 7.15E-05 2.37E-05 1.51E-05 1.51E-05 1.51E-05 1.51E-06 1.75E+06 1.75E+06 1.75E+06 1.75E+06 1.75E-07 2.87E-07	4.71E+01 2.02E+01 4.35E+01 4.35E+01 4.78E-02 1.06E-02 1.06E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 4.30E-05 2.12E-05 6.88E-06 4.35E-06 4.35E-06 4.35E-07 3.02E-07 3.02E-07 3.02E-07 3.02E-07 3.02E-07 3.02E-07 3.02E-07 3.02E-07 3.02E-07 3.02E-07
ANGLE 0.50 0.00 0.00 0.00 0.00 0.00 0.00 0.0	1.19E+01 1.19E+01 1.19E+01 1.18E+01 1.18E+01 1.18E+01 1.04E+01 9.45E+00 8.34E+00 7.20E+00 5.10E+00 4.20E+00 1.22E+01 1.57E-01 1.57E-01 1.57E-02 1.57E-02 1.49E-02 1.17E-02 1.49E-02 1.17E-02 1.02E-03 9.26E-03 9.26E-03 9.26E-03 9.26E-03 1.00E-02 1.04E-02 1.09E-02 1.09E-02 1.09E-02 1.09E-02 1.09E-02	2KEV 1.44E+01 1.43E+01 1.49E+01 1.29E+01 9.44E+00 7.62E+00 5.97E+00 3.49E+00 2.640E+00 2.640E+00 2.640E-01 1.23E-02 2.92E-02 2.92E-02 2.92E-02 2.92E-03 3.48E-03 3.87E-03 3.68E-03	1.68E+01 1.65E+01 1.65E+01 1.36E+01 1.37E+01 7.86E+00 5.54E+00 3.81E+00 1.81E+00 1.81E+00 1.81E+01 2.73E-01 2.62E-01 1.03E-02 1.18E-02 1.28E-02 1.28E-02 1.28E-02 1.28E-03 3.84E-04 3.94E-04 3.92E-04 3.92E-04 3.73E-04	ARGON, 8KEV 1.88E+01 1.83E+01 1.27E+01 8.35E+00 5.09E+00 5.03E+00 1.83E+00 1.83E+00 1.14E-01 5.08E-01 1.01E-02 1.93E-02 6.95E-03 3.99E-03 3.99E-03 3.99E-03 3.99E-04 4.12E-04 4.12E-04 4.12E-04 4.12E-04 4.12E-04 8.64E-05 8.64E-05 8.64E-05 8.19E-05 8.19E-05	Z=18 KEV 2.07E+01 1.96E+01 1.96E+01 1.05E+00 1.0	2.28E+01 2.06E+01 1.05E+00 2.30E+00 9.36E-01 4.50E-01 1.50E-01 1.00E-01 6.87E-02 4.87E-02 4.10E-03 1.78E-04 1.78E-04 2.10E-04 3.12E-04 1.38E-04 1.38E-04 1.38E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-06 4.17E-05 4.17E-05 4.17E-05 4.17E-05 4.17E-06 5.56E-06 4.24E-06 4.24E-06	64E+01 2.62E+01 1.25E+01 3.03E+01 3.03E+01 3.03E+01 1.62E+02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-04 4.51E-05 1.60E-04 8.51E-05 1.60E-05 1.68E-05 1.08E-05 1.08E-06 4.52E-06 3.21E-06 4.52E-06 3.21E-06 4.52E-06 3.21E-06 4.52E-06 3.21E-06 4.52E-06 3.21E-06 4.52E-06 3.21E-06 3.21E-06 3.21E-06 3.21E-06 3.21E-06 3.21E-06 3.21E-07 3.21E-07 3.21E-07 3.21E-07 3.21E-07 3.21E-07 3.21E-07 3.21E-07 3.21E-07	3.25E+01 2.15E+01 8.31E+00 1.18E+00 1.18E-01 1.26E-01 6.07E-02 3.23E-02 1.12E-02 7.17E-03 4.79E-03 1.01E-03 3.38E-04 1.45E-05 2.37E-05 1.51E-05 1.51E-05 1.51E-05 1.51E-05 1.75E-06 1.75E+06 1.75E+06 1.75E+06 1.75E+07 2.87E-07 2.87E-07 2.57E-07 2.57E-07	4.71E+01 2.02E+01 4.35E+01 4.35E+01 4.78E-02 1.06E-02 1.06E-03 3.49E-03 2.22E-03 1.48E-03 3.12E-04 4.30E-05 6.88E-06 4.35E-06 4.35E-06 4.35E-06 7.86E-07 7.02E-07 7.02E-07 7.02E-07 7.02E-07 7.02E-07 7.02E-07 7.03E-07 7.04E-07 7.04E-07 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08 7.05E-08
ANGLE 0.0 0.5 1.0 0.5 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 0	1.19E+01 1.19E+01 1.18E+01 1.18E+01 1.04E+01 2.45E+00 8.34E+00 7.20E+00 4.20E+00 5.10E+00 4.20E+00 1.22E+00 2.61E-01 1.57E-01 1.57E-01 1.57E-01 1.57E-02 1.49E-02	2KEV 1.44E+01 1.43E+01 1.49E+01 1.23E+01 9.44E+00 7.62E+00 4.59E+00 3.49E+00 2.64E+00 2.64E+00 5.82E-01 1.23E-01 1.23E-01 1.24-38E-02 2.97E-02 9.63E-03 6.72E-03	1.68E+01 1.65E+01 1.65E+01 1.36E+01 1.36E+00 5.54E+00 2.61E+00 1.81E+	ARGON, 8KEV 1.88E+01 1.83E+01 1.727E+01 8.35E+00 5.09E+00 3.03E+00 1.82E+00 1.82E+01 1.02E-01 1.02E-02 1.03E-02 1.03E-03 2.69E-03 3.69E-03 1.03E-04 4.12E-04 4.12E-04 4.12E-04 4.12E-04 1.03E-04 8.64E-05 8.29E-05	Z=18 KEV 2.07E+01 1.96E+01 1.96E+01 1.00E+	2.28E+01 2.06E+01 1.559E+00 2.30E+00 9.36E-01 4.50E-01 1.53E-01 1.53E-01 1.00E+01 6.87E-02 4.178E-02 4.178E-02 4.178E-04 3.12E-04 3.12E-04 3.12E-04 3.12E-04 3.17E-05 4.17E-06 4.17E-06 4.17E-06 6.	64KEV 2.60E+01 2.12E+01 1.252E+01 3.03E-01 3.03E-01 1.63E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.51E-02 3.61E-04 4.51E-05 5.47E-05 5.47E-05 5.47E-05 5.47E-05 5.47E-05 5.47E-06 4.52 1.83E-06 4.52 1.83E-06 1.30E-06 1.30E-06 1.30E-06 1.35E-06 1.05E-06 1.05E-06 1.05E-06 1.05E-06 1.05E-06 1.05E-06 1.05E-06	3.25E+01 2.15E+01 8.31E+00 1.18E+00 1.18E+01 1.26E-01 6.07E-02 1.12E-02 1.12E-02 1.12E-03 1.01E-03 1.01E-03 1.01E-05 3.96E-05 2.37E-05 1.51E-05 1.51E-06 1.75E-06 1.75E-06 1.75E-07 2.87E-07 2.87E-07 2.97E-07 2.97E-07 2.31E-07 2.31E-07 2.31E-07 2.31E-07 2.31E-07	4.71E+01 2.02E+01 4.36E+01 4.36E+01 4.78E-02 1.06E-02 1.06E-03 3.49E-03 3.49E-03 3.49E-03 3.12E-04 4.30E-05 6.88E-06 4.35E-06 4.35E-06 4.35E-07 3.02E-07 1.46E-07 1.46E-07 1.46E-07 1.470E-07 1.470E-07 1.470E-08 4.79E-08 4.79E-08 4.79E-08 4.79E-08 4.79E-08

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

ANGLE	1KEV	2KEV	4KEV	TITANI 8KEV	UM, Z=22 16KEV	32KEV	64KEV	120250	256757
0.0	4.69E+01	5.50E+01	6.268+01	6.96E+01	7.63E+81	8.41E+01	9.63E+01	128KEV 1.20E+02	256KEV 1.74E+02
0.5	4.63E+01	5.36F+01	5.97E+01	6.36E+01	6.41E+01	6.02E+01	5.15E+01	3.94E+01	2.79E+01
1.0	4.45E+01	4.99E+01	5.21E+01	4.96E+01	4.12E+01	2.91E+01	1.78E+01	1.05E+01	6.84E+03
2.0	3.83E+01	3.81E+01	3.27E+01	2.35E+01	1.42E+01	7.80E+00	4.01E+00	1.82E+00	7.09E-01
3.0	3.04E+01	2.60E+01	1.84E+01	1.11E+01	6.10E+00	3.06E+00	1.305+00	4.76E-01	1.76E-01
4.0	2.28E+01	1.69E+01	1.06E+01	6.02E+00	3.13E+00	1.38E+00	5.07E-01	1.77E-01	6.65E-02
5.0 6.0	1.65E+01 1.19E+01	1.10E+01	6.55E+00	3.61E+00	1.74E+00	6.84E-01	2.36E-01	8.33E-02	3.04E-02
7.0	8.67E+00	7.47E+00 5.27E+00	4.33E+00 3.00E+00	2.29E+00 1.51E+00	1.01E+00 6.21E-01	3.70E-01 2.19E-01	1.27E-01 7.53E-02	4.49E-02 2.62E-02	1.56E-02 8.71E-03
8.0	6.43E+00	3.85E+00	2.148+00	1.02E+00	3.998-01	1.39E-01	4.80E-02	1.63E-02	5.23E-03
3.0	4.88E+00	2.89E+00	1.56E+00	7.07E-01	2.69E-01	9.36E-02	3.22E-02	1.05E-02	3.32E-03
10.0	3.78E+00	2.22E+00	1.15E+00	5.05E-01	1.89E-01	6.58E-02	2.23E-02	7-11E-03	2.21E-03
15.0	1.33E+00	7.08E-01	3.30E-01	1.34E-01	4.89E-02	1.66E-02	5.12E-03	1.51E-03	4.64E-04
20.0	5.75E+01	2.94E-01 1.52E-01	1.34E-01	5.26E-02	1.86E-02	5.93E-03	1.73E-03	5.02E-04	1.53E-04
25.0 30.0	2.95E-01 1.78E-01	9.01E-02	6.67E-02 3.74E-02	2.52E-02 1.38E-02	8.64E-03 4.58E-03	2.62E-03 1.34E-03	7.44E-04 3.74E-04	2.14E-04 1.07E-04	6.46E-05 3.19E-05
35.0	1.20E-01	5.73E-02	2.29E-02	8.36E-03	2.67E-03	7.58E-04	2.10E-04	5.95E-05	1.75E-05
40.0	8.51E-02	3.83E-02	1.50E-02	5.43E-03	1.67E-03	4.64E-04	1.28E-04	3.58E-05	1.05E-05
45.0	6.25E-02	2.68E-02	1.05E-02	3.72E-03	1.11E-03	3.02E-04	8.24E-05	2.29E-05	6.65E-06
50.0	4.69E-02	1.96E-02	7.73E-03	2.65E-03	7.66E-04	2.07E-04	5.58E-05	1.54E-05	4.43E-06
60.0	2.83E-02	1.19E-02	4.65E-03	1.49E-03	4.09E-04	1.08E-04	2.86E-05	7.77E-06	2.20E-06
70.0	1.88E-02	8.21E-03	3.09E-03	9.23E-04	2.44E-04	6.32E-05	1.65E-05	4.38E-06	1.22E-06
80.0	1.40E-02	6.28E-03	2.21E-03	6.18E-04	1.59E-04	4.04E-05	1.03E-05	2.69E-06	7.31E-07
90.0	1.16E-02	5.16E-03	1.67E-03	4.40E-04	1.10E-04	2.76E-05	6.94E-06	1.77E-06	4.66E-07
180.0	1.09E-02	4.48E-03	1.32E-03	3.31E-04	8.13E-05	2.006-05	4.94E-06	1.24E-06	3.14E-07
110.0	1.12E-02	4.05E-03	1.09E-03	2.61E-04	6.29E-05	1.52E-05	3.70E-06	9.08E-07	2.22E-07
120.0	1.22E-02	3.78E-03	9.26E-04	2.15E-04	5.07E-05	1.21E-05	2.89E-06	6.95E-07	1.65E-07
130.0	1.36E-02	3.60E-03	8.12E-04	1.83E-04	4.26E-05	1.00E-05	2.36E-06	5.53E-07	1.27E-07
140.0	1.52E-02	3.48E-03	7.32E-04	1.61E-04	3.70E-05	8-61E-06	2.00E-06	4.58E-07	1.02E-07
150.0	1.68E-02	3.41E-03	6.77E-04	1.47E-04	3.33E-05	7.66E-06	1.76E-06	3.97E-07	8.45E-08
160.0	1.80E-02	3.36E-03	6.40E-04	1.37E-04	3.08E-05	7.06E-06	1.61E-06	3.59E-07	7.31E-08
170.0	1.89E-02	3.34E-03	6.20E-04	1.32E-04	2.95E-05	6.73E-06	1.52E-06	3.39E-07	6.66E-08
180.0	1.92E-02	3.33E-03	6.13E-04	1.30E-04	2.92E-05	6.59E-06	1.51E-06	3.32E-07	6.41E-08
TOTAL Trans	2.06E+00 2.40E-01	1.34E+00 8.81E-02	8.27E-01 3.04E-02	4.90E-01 9.87E-03	2.79E-01 3.06E-03	1.56E-01 9.21E-04	8.80E-02 2.76E-04	5.23E-02 8.42E-05	3.42E-02 2.70E-05
1100.10	C. 40C-01	00011,-02	30046-05	74 GIL-00	3.000	30515-04	20105 04	0.456-03	20106-03
				700 0	7-06				
ANCLE	4 VEV	SKEN	(VEV		, Z=26	えつととり	64YEV	128KEV	256KEN
ANGLE	1KEV 2.74F+01	2KEV 3-29F+01	4KEV 3-85F+01	8KEV	16KEV	32KEV 5.51F+01	64KEV 6.38F+01	128KEV 8-01F+01	256KEV
0.0	2.74E+01	3.29E+01	3.85E+01	8KEV 4.39E+01	16KEV 4.92E+01	5.51E+01	6.38E+01	8.01E+01	1.16E+02
0.0 0.5	2.74E+01 2.72E+01	3.29E+01 3.23E+01	3.85E+01 3.71E+01	8KEV 4.39E+01 4.10E+01	16KEV 4.92E+01 4.33E+01	5.51E+01 4.31E+01	6.38E+01 4.01E+01	8.01E+01 3.44E+01	1.16E+02 2.77E+01
0.0	2.74E+01	3.29E+01	3.85E+01	8KEV 4.39E+01	16KEV 4.92E+01	5.51E+01	6.38E+01	8.01E+01	1.16E+02
0.0 0.5 1.0	2.74E+01 2.72E+01 2.64E+01	3.29E+01 3.23E+01 3.06E+01	3.85E+01 3.71E+01 3.36E+01	8KEV 4.39E+01 4.10E+01 3.41E+01	16KEV 4.92E+01 4.33E+01 3.10E+01	5.51E+01 4.31E+01 2.46E+01	6.38E+01 4.01E+01 1.71E+01	8.01E+01 3.44E+01 1.11E+01	1.16E+02 2.77E+01 7.13E+00
0.0 0.5 1.0 2.0 3.0 4.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01	3.29E+01 3.23E+01 3.06E+01 2.49E+01 1.85E+01 1.30E+01	3.85E+01 3.71E+01 3.36E+01 2.35E+01 1.48E+01 9.28E+00	8KEV 4.39E+01 4.10E+01 3.41E+01 1.90E+01 1.02E+01 5.88E+00	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00	6.38E+01 4.01E+01 1.71E+01 4.57E+00 1.67E+00 6.97E-01	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 1.21E+01	3.29E+01 3.23E+01 3.06E+01 2.49E+01 1.85E+01 1.30E+01 9.11E+00	3.85E+01 3.71E+01 3.36E+01 2.35E+01 1.48E+01 9.28E+00 6.05E+00	8KEV 4.39E+01 4.10E+01 3.41E+01 1.90E+01 1.02E+01 5.88E+00 3.69E+00	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 2.00E+00	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01	6.38E+01 4.01E+01 1.71E+01 4.57E+00 1.67E+00 6.97E-01 3.28E-01	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01 1.12E-01	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 1.21E+01 9.20E+00	3.29E+01 3.23E+01 3.06E+01 2.49E+01 1.85E+01 1.30E+01 9.11E+00 6.47E+00	3.85E+01 3.71E+01 3.36E+01 2.35E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00	8KEV 4.39E+81 4.10E+01 3.41E+01 1.90E+01 5.88E+00 3.69E+00 2.44E+00	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 2.00E+00 1.23E+00	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 5.00E-01	6.38E+01 4.01E+01 1.71E+01 4.57E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01 1.12E-01 5.95E-02	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 2.11E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 1.21E+01 9.20E+00 7.00E+00	3.29E+01 3.23E+01 3.06E+01 2.49E+01 1.85E+01 9.11E+00 6.47E+00 4.71E+00	3.85E+01 3.71E+01 3.36E+01 2.35E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00 2.95E+00	8KEV 4.39E+01 4.10E+01 3.41E+01 1.90E+01 5.88E+00 3.69E+00 2.44E+00 1.66E+00	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 2.00E+00 1.23E+00 7.80E-01	5.51E+01 4.31E+01 2.46E+01 8.04E+00 1.70E+00 8.93E-01 5.00E-01 2.98E-01	6.38E+01 4.01E+01 1.71E+01 4.57E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01 1.12E-01 5.95E-02 3.48E-02	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 2.11E-02 1.20E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 1.21E+01 9.20E+00 7.00E+00 5.36E+00	3.29E+01 3.23E+01 3.06E+01 2.49E+01 1.30E+01 9.11E+00 6.47E+00 4.71E+00 3.52E+00	3.85E+01 3.71E+01 3.36E+01 2.35E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00 2.95E+00 2.16E+00	8KEV 4.39E+01 4.10E+01 3.41E+01 1.90E+01 5.88E+00 3.69E+00 2.44E+00 1.66E+00 1.16E+00	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 2.00E+00 1.23E+00 7.80E-01 5.14E-01	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 5.00E-01 1.88E-01	6.38E+01 4.01E+01 1.71E+01 4.57E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.01E-01 6.37E-02	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01 1.12E-01 5.95E-02 3.48E-02 2.17E-02	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 2.11E-02 1.20E-02 7.24E-03
0.0 0.5 1.0 2.0 4.0 5.0 6.0 7.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 1.21E+01 9.20E+00 7.00E+00 5.36E+00 4.17E+00	3.29E+01 3.23E+01 3.06E+01 2.49E+01 1.85E+01 1.30E+01 9.11E+00 4.71E+00 4.71E+00 2.70E+00	3.85E+01 3.71E+01 3.36E+01 2.35E+01 9.28E+00 6.05E+00 4.15E+00 2.95E+00 1.61E+00	8KEV 4.39E+01 4.10E+01 3.41E+01 1.90E+01 5.88E+00 3.69E+00 2.44E+00 1.66E+00 1.16E+00 8.30E-01	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 2.00E+00 1.23E+00 7.80E-01 5.14E-01 3.50E-01	5.51E+01 4.31E+01 2.46E+01 8.04E+00 1.70E+00 8.93E-01 5.00E-01 2.98E-01 1.25E-01	6.38E+01 4.01E+01 1.71E+01 4.57E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 6.37E-02 4.24E-02	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01 1.12E-01 5.95E-02 3.48E-02 2.17E-02 1.42E-02	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 2.11E-02 1.20E-02 4.62E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 1.21E+01 9.20E+00 7.00E+00 5.36E+00	3.29E+01 3.23E+01 3.06E+01 2.49E+01 1.30E+01 9.11E+00 6.47E+00 4.71E+00 3.52E+00	3.85E+01 3.71E+01 3.36E+01 2.35E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00 2.95E+00 2.16E+00	8KEV 4.39E+01 4.10E+01 3.41E+01 1.90E+01 5.88E+00 3.69E+00 2.44E+00 1.66E+00 1.16E+00	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 2.00E+00 1.23E+00 7.80E-01 5.14E-01	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 5.00E-01 1.88E-01	6.38E+01 4.01E+01 1.71E+01 4.57E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.01E-01 6.37E-02	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01 1.12E-01 5.95E-02 3.48E-02 2.17E-02	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 2.11E-02 1.20E-02 7.24E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 1.21E+01 9.20E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00	3.29E+01 3.23E+01 3.06E+01 2.49E+01 1.85E+01 1.30E+01 9.11E+00 6.47E+00 4.71E+00 3.52E+00 2.70E+00 7.24E-01	3.85E+01 3.71E+01 3.36E+01 2.35E+01 9.28E+00 6.05E+00 4.15E+00 2.95E+00 1.61E+00	8KEV 4.39E+01 4.10E+01 3.41E+01 1.90E+01 5.88E+00 3.69E+00 2.44E+00 1.66E+00 1.16E+00 8.30E-01 1.66E-01	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 2.00E+00 1.23E+00 7.30E-01 5.14E-01 3.50E-01 2.46E-01 6.32E-02	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 5.00E-01 2.98E-01 1.88E-01 1.25E-01 8.71E-02	6.38E+01 4.01E+01 1.71E+01 1.57E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.01E-01 6.37E-02 4.24E-02 2.94E-02	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01 1.12E-01 5.95E-02 3.48E-02 2.17E-02 1.42E-02 9.69E-03	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 2.11E-02 1.20E-02 7.24E-03 4.62E-03 3.08E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 1.21E+01 9.20E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 5.50E-01	3.29E+01 3.23E+01 3.06E+01 2.49E+01 1.30E+01 9.11E+00 6.47E+00 3.52E+00 2.70E+00 2.11E+00	3.85E+01 3.71E+01 3.36E+01 2.35E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00 2.95E+00 2.16E+00 1.61E+00 1.23E+00	8KEV 4.39E+01 4.10E+01 3.41E+01 1.90E+01 5.88E+00 3.69E+00 2.44E+00 1.66E+00 1.16E+00 8.30E-01 6.05E-01 1.66E-01 6.60E-02	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 2.00E+00 1.23E+00 7.80E-01 5.14E-01 3.50E-01 2.46E-01 6.32E-02 2.39F-02	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 5.00E-01 1.88E-01 1.25E-01 8.71E-02 2.16E-02 7.89E-03	6.38E+01 4.01E+01 1.71E+01 1.57E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 4.01E-01 6.37E-02 4.24E-02 2.94E-02 6.94E-03 2.39E-03	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01 1.12E-01 5.95E-02 3.48E-02 2.17E-02 1.42E-02 9.69E-03 2.11E-03 7.03E-04	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 2.11E-02 7.24E-03 4.62E-03 3.08E-03 6.47E-04
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 1.21E+01 9.20E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 5.50E-01 2.84E-01	3.29E+01 3.23E+01 3.06E+01 2.49E+01 1.30E+01 9.11E+00 6.47E+00 4.71E+00 2.70E+00 2.11E+00	3.85E+01 3.71E+01 3.36E+01 2.35E+01 9.28E+00 6.05E+00 4.15E+00 2.95E+00 1.61E+00 1.23E+00	8KEV 4.39E+01 4.10E+01 1.90E+01 1.02E+01 5.88E+00 2.44E+00 1.66E+00 1.16E+00 1.16E+00 1.66E-01 6.65E-01	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 2.00E+00 1.23E+00 7.80E-01 5.14E-01 2.46E-01 6.32E-02 2.39F-02 1.12E-02	5.51E+01 4.31E+01 2.46E+01 8.04E+00 1.70E+00 8.93E-01 5.00E-01 2.98E-01 1.25E-01 8.71E-02 2.16E-02 7.89E-03 3.55E-03	6.38E+01 4.01E+01 1.71E+01 4.57E+00 6.97E-01 3.28E-01 1.74E-01 6.37E-02 4.24E-02 2.94E-02 6.94E-03 1.04E-03	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01 1.12E-01 5.95E-02 3.48E-02 2.17E-02 1.42E-02 9.69E-03 2.11E-03 7.03E-04 3.01E-04	1.16E+02 2.77E+01 7.13E+00 1.00E+00 1.00E+01 8.85E-02 4.05E-02 2.11E-02 1.20E-02 1.20E-03 4.62E-03 3.08E-03 6.47E-04 9.11E-05
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 10.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 1.21E+01 9.20E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 5.50E-01 2.84E-01 1.69E-01	3.29E+01 3.23E+01 3.06E+01 2.49E+01 1.85E+01 1.30E+01 9.11E+00 4.71E+00 3.52E+00 2.70E+00 7.24E-01 3.08E-01 1.61E-01 9.81E-02	3.85E+01 3.71E+01 3.36E+01 2.35E+01 1.48E+01 9.28E+00 4.15E+00 2.95E+00 2.16E+00 1.61E+00 1.23E+00 3.74E-01 1.55E-02 4.60E-02	8KEV 4.39E+01 4.10E+01 1.90E+01 1.02E+01 5.88E+00 2.44E+00 1.66E+00 1.16E+00 1.66E+01 1.66E-01 6.60E-02 3.20E-02 1.75E-02	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.14E-01 2.46E-01 6.32E-02 2.39F-02 1.12E-02 5.99E-03	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 2.98E-01 1.88E-01 1.25E-01 8.71E-02 2.16E-02 7.89E-03 1.84E-03	6.38E+01 4.01E+01 1.71E+01 1.57E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.01E-01 6.37E-02 4.24E-02 2.94E-02 6.94E-03 1.04E-03 5.24E-04	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01 1.12E-01 5.95E-02 3.48E-02 2.17E-02 1.42E-02 9.69E-03 2.11E-03 7.03E-04 1.51E-04	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 1.20E-02 7.24E-03 4.62E-03 3.08E-03 6.47E-04 2.11E-05 4.53E-05
0.0 0.5 1.0 2.0 3.0 5.0 5.0 7.0 8.0 9.0 10.0	2.74E+01 2.72E+01 2.64E+01 1.97E+01 1.97E+01 1.57E+01 1.21E+01 9.20E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 5.50E-01 1.69E-01 1.14E-01	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.30E+01 9.11E+00 6.47E+00 4.71E+00 3.52E+00 2.70E+00 2.11E+00 7.24E-01 3.08E-01 1.61E-01 9.81E-02 6.51E-02	3.85E+01 3.71E+01 3.36E+01 1.35E+01 1.48E+01 9.28E+00 4.15E+00 2.95E+00 2.16E+00 1.23E+00 3.74E-01 1.55E-01 7.96E-02 2.86E-02	8KEV 4.39E+01 4.10E+01 1.90E+01 1.02E+01 5.88E+00 3.69E+00 1.66E+00 1.16E+00 8.30E-01 6.05E-01 1.66E-02 3.20E-02 1.75E-02	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 2.00E+00 1.23E+00 7.80E-01 5.14E-01 3.50E-01 6.32E-02 2.39F-02 1.12E-02 3.54E-03 3.54E-03	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 2.98E-01 1.88E-01 1.25E-01 8.71E-02 2.16E-02 7.89E-03 3.55E-03 1.84E-03 1.05E-03	6.38E+01 4.01E+01 1.71E+01 1.57E+00 1.67E+01 3.28E-01 1.74E-01 1.74E-01 6.37E-02 4.24E-02 2.94E-02 6.94E-03 2.39E-03 1.04E-03 5.24E-04 2.94E-04	8.01E+01 3.44E+01 1.11E+01 7.33E+00 6.70E-01 2.47E-01 1.12E-01 5.95E-02 3.48E-02 2.17E-02 1.42E-02 9.69E-03 2.11E-03 7.03E-04 3.01E-04 8.41E-05	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 1.20E-02 7.24E-03 4.62E-03 3.08E-03 6.47E-04 9.11E-05 2.50E-05
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 25.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 1.21E+01 9.20E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 5.50E-01 2.84E-01 1.14E-01 8.38E-02	3.29E+01 3.23E+01 3.06E+01 1.49E+01 1.30E+01 9.11E+00 6.47E+00 3.52E+00 2.71E+00 7.24E-01 3.08E-01 1.61E-01 9.81E-02 4.53E-02	3.85E+01 3.71E+01 3.36E+01 1.355E+01 1.48E+01 9.28E+00 4.15E+00 2.16E+00 1.61E+00 1.23E+00 3.74E-01 7.96E-02 4.60E-02 4.86E-02 1.89E-02	8KEV 4.39E+81 4.10E+01 1.90E+01 1.02E+01 5.88E+00 2.44E+00 1.16E+00 8.30E-01 6.60E-02 3.20E-02 1.76E-02 6.88E-03	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.14E-01 2.46E-01 6.32E-02 2.39F-02 1.12E-02 5.99E-03 3.54E-03 2.25E-03	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 5.00E-01 2.98E-01 1.88E-01 1.25E-01 8.71E-02 2.16E-02 7.89E-03 3.55E-03 1.84E-03 1.05E-03 6.47E-04	6.38E+01 4.01E+01 1.71E+01 1.57E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.01E-01 6.37E-02 4.24E-02 2.94E-02 6.94E-03 2.39E-03 1.04E-03 5.24E-04 1.79E-04	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01 1.12E-02 5.95E-02 2.17E-02 1.42E-02 9.69E-03 2.11E-03 7.03E-04 1.51E-04 1.51E-05 5.08E-05	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 2.11E-02 7.24E-03 4.62E-03 3.08E-03 6.47E-04 9.11E-05 4.53E-05 1.50E-05 1.50E-05
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 9.0 10.0 25.0 25.0 30.0 45.0	2.74E+01 2.72E+01 2.35E+01 1.37E+01 1.57E+01 1.21E+01 9.20E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 5.50E-01 2.84E-01 1.69E-01 8.38E-02 6.45E-02	3.29E+01 3.23E+01 3.06E+01 2.49E+01 1.30E+01 9.11E+00 6.47E+00 3.52E+00 2.70E+00 2.11E+00 7.24E-01 3.08E-01 1.61E-01 9.81E-02 4.53E-02 3.26E-02	3.85E+01 3.71E+01 3.36E+01 1.35E+01 1.35E+01 9.28E+00 6.05E+00 4.15E+00 2.95E+00 2.16E+00 1.61E+00 1.23E+00 3.74E-01 7.96E-02 4.66E-02 2.86E-02 1.89E-02 1.31E-02	8KEV 4.39E+01 4.10E+01 1.90E+01 1.02E+01 5.88E+00 2.44E+00 1.66E+00 1.16E-01 6.60E-02 3.20E-02 1.75E-02 1.06E-03 4.75E-03	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.14E-01 2.46E-01 6.32E-02 2.39F-02 1.12E-02 5.99E-03 3.54E-03 1.50E-03	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 5.00E-01 1.25E-01 8.71E-02 2.16E-02 7.89E-03 3.55E-03 1.84E-03 6.47E-04 4.23E-04	6.38E+01 4.01E+01 1.71E+01 4.57E+00 6.97E-01 3.28E-01 1.74E-01 6.37E-02 4.24E-02 2.94E-02 6.94E-03 2.39E-03 1.04E-03 5.24E-04 2.94E-04 1.79E-04 1.79E-04 1.16E-04	8.01E+01 3.44E+01 1.11E+01 2.37E+00 6.70E-01 2.47E-01 1.12E-01 5.95E-02 3.48E-02 2.17E-02 1.42E-02 9.69E-03 2.11E-03 7.03E-04 3.01E-04 1.51E-04 8.41E-05 5.08E-05 3.26E-05	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 2.11E-02 7.24E-03 4.62E-03 3.08E-03 6.47E-04 9.11E-05 4.53E-05 1.50E-05 1.50E-05 9.53E-06
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 20.0 35.0 40.0 35.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 4	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 9.20E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 5.50E-01 2.84E-01 1.69E-01 1.14E-01 8.38E-02 6.45E-02 5.09E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.30E+01 9.14FE+00 4.71E+00 2.70E+00 2.11E+00 7.24E-01 3.08E-01 1.61E-01 9.81E-02 4.53E-02 4.53E-02 2.42E-02	3.85E+01 3.71E+01 3.35E+01 1.48E+01 9.28E+00 6.05E+00 2.95E+00 2.16E+00 1.61E+00 1.23E+00 3.74E-01 1.59E-02 4.60E-02 2.86E-02 1.81E-02 9.59E-03	8KEV 4.39E+01 4.10E+01 1.90E+01 1.02E+01 5.88E+00 2.44E+00 1.66E+00 1.66E+00 1.66E+01 6.60E-01 3.20E-02 1.75E-02 1.75E-02 1.75E-03 3.43E-03	16KEV 4.92E+01 4.33E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.14E-01 2.46E-01 6.32E-02 2.39F-02 2.39F-02 3.54E-03 2.25E-03 1.50E-03 1.50E-03	5.51E+01 4.31E+01 2.46E+00 3.46E+00 1.70E+00 8.93E-01 2.98E-01 1.88E-01 1.87E-02 2.16E-02 2.16E-02 2.16E-03 3.55E-03 1.84E-03 1.05E-03 6.47E-04 4.23E-04	6.38E+01 4.01E+01 1.71E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.01E-01 6.37E-02 4.24E-02 2.94E-02 6.94E-03 2.39E-03 1.04E-03 5.24E-04 1.79E-04 1.16E-04 7.88E-05	8.01E+01 3.44E+01 1.11E+00 6.70E-01 2.47E-01 1.12E-02 1.12E-02 3.48E-02 2.17E-02 1.42E-03 7.03E-03 7.03E-04 8.41E-04 8.41E-05 5.08E-05 2.19E-05	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 1.20E-02 7.24E-03 4.62E-03 4.62E-03 6.47E-04 2.11E-05 4.53E-05 1.50E-05 1.50E-05 1.50E-05 1.50E-06 6.35E-06
0.0 0.5 1.0 3.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 45.0 45.0 45.0 45.0 45.0	2.74E+01 2.72E+01 2.64E+01 1.97E+01 1.57E+01 1.57E+01 1.21E+01 9.20E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 5.50E-01 1.69E-01 1.14E-01 8.38E-02 6.45E-02 5.09E-02 3.31E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.85E+01 1.30E+01 9.11E+00 4.71E+00 2.70E+00 2.11E+00 7.24E-01 3.61E-01 1.61E-01 9.81E-02 4.53E-02 4.53E-02 4.53E-02	3.85E+01 3.71E+01 3.36E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00 2.95E+00 2.16E+00 1.23E+00 3.74E-01 1.55E-01 7.96E-02 2.86E-02 1.89E-02 1.31E-02 5.75E-03	8KEV 4.39E+01 4.10E+01 1.90E+01 1.02E+01 5.88E+00 3.69E+00 1.66E+00 1.16E+00 8.30E-01 1.66E-01 6.05E-01 1.66E-02 6.88E-03 4.75E-03 1.97E-03	16KEV 4.92E+01 4.33E+01 1.31E+01 6.22E+00 3.40E+00 2.00E+00 1.23E+00 7.80E-01 5.14E-01 3.50E-01 6.32E-02 1.12E-02 1.12E-03 3.54E-03 2.25E-03 1.50E-03 1.50E-03 5.70E-04	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 2.98E-01 1.88E-01 1.25E-01 2.16E-02 7.85E-03 3.55E-03 1.84E-03 1.05E-03 6.423E-04 4.23E-04 1.52E-04	6.38E+01 4.01E+01 1.71E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.01E-01 6.37E-02 4.24E-02 2.94E-02 6.94E-03 1.04E-03 1.04E-04 1.76E-04 1.16E-04 1.16E-05 4.07E-05	8.01E+01 3.44E+01 1.11E+01 7.33E+00 6.70E-01 2.47E-01 1.12E-02 3.48E-02 2.17E-02 1.42E-02 3.48E-02 2.17E-02 1.595E-03 2.11E-03 7.03E-04 3.01E-04 8.41E-05 5.08E-05 5.08E-05 5.08E-05 1.11E-05	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.01E-02 1.20E-02 7.24E-03 4.62E-03 3.08E-03 6.47E-04 9.11E-05 2.50E-05 1.50E-05 1.50E-06 3.16E-06
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 20.0 35.0 40.0 35.0 40.0 40.0 40.0 40.0 40.0 40.0 40.0 4	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 9.20E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 5.50E-01 2.84E-01 1.69E-01 1.14E-01 8.38E-02 6.45E-02 5.09E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.30E+01 9.14FE+00 4.71E+00 2.70E+00 2.11E+00 7.24E-01 3.08E-01 1.61E-01 9.81E-02 4.53E-02 4.53E-02 2.42E-02	3.85E+01 3.71E+01 3.35E+01 1.48E+01 9.28E+00 6.05E+00 2.95E+00 2.16E+00 1.61E+00 1.23E+00 3.74E-01 1.59E-02 4.60E-02 2.86E-02 1.81E-02 9.59E-03	8KEV 4.39E+01 4.10E+01 1.90E+01 1.02E+01 5.88E+00 2.44E+00 1.66E+00 1.66E+00 1.66E+01 6.60E-01 3.20E-02 1.75E-02 1.75E-02 1.75E-03 3.43E-03	16KEV 4.92E+01 4.33E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.14E-01 2.46E-01 6.32E-02 2.39F-02 2.39F-02 3.54E-03 2.25E-03 1.50E-03 1.50E-03	5.51E+01 4.31E+01 2.46E+00 3.46E+00 1.70E+00 8.93E-01 2.98E-01 1.88E-01 1.87E-02 2.16E-02 2.16E-02 2.16E-03 3.55E-03 1.84E-03 1.05E-03 6.47E-04 4.23E-04	6.38E+01 4.01E+01 1.71E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.01E-01 6.37E-02 4.24E-02 2.94E-02 6.94E-03 2.39E-03 1.04E-03 5.24E-04 1.79E-04 1.16E-04 7.88E-05	8.01E+01 3.44E+01 1.11E+00 6.70E-01 2.47E-01 1.12E-02 1.12E-02 3.48E-02 2.17E-02 1.42E-03 7.03E-03 7.03E-04 8.41E-04 8.41E-05 5.08E-05 2.19E-05	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 1.20E-02 7.24E-03 4.62E-03 4.62E-03 6.47E-04 2.11E-05 4.53E-05 1.50E-05 1.50E-05 1.50E-05 1.50E-06 6.35E-06
0.0 0.5 1.0 2.0 3.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 25.0 25.0 45.0 45.0 45.0	2.74E+01 2.72E+01 2.64E+01 1.97E+01 1.57E+01 1.21E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 5.50E-01 2.84E-01 1.14E-01 8.38E-02 6.45E-02 5.09E-02 2.26E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.30E+01 9.11E+00 6.47E+00 3.52E+00 2.71E+00 7.24E-01 3.08E-01 1.61E-01 9.81E-02 4.53E-02 4.53E-02 4.53E-02 4.53E-02 4.53E-02 4.53E-02	3.85E+01 3.71E+01 3.36E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00 2.16E+00 1.61E+00 1.55E-01 7.96E-02 4.60E-02 4.60E-02 1.89E-02 1.89E-02 1.31E-02 9.59E-03 3.78E-03	8KEV 4.39E+81 4.10E+01 1.90E+01 1.02E+01 5.88E+00 2.44E+00 1.16E+00 1.16E+00 1.16E+00 1.16E-01 6.60E-02 3.20E-02 1.76E-02 6.88E-03 4.75E-03 1.97E-03 1.25E-03	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 2.00E+00 1.23E+00 7.80E-01 5.14E-01 2.46E-01 6.32E-02 2.39F-02 1.12E-02 5.99E-03 2.25E-03 1.50E-03 1.50E-03 3.44E-04	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 5.00E-01 2.98E-01 1.88E-01 1.88E-01 2.7.89E-03 3.55E-03 1.84E-03 1.84E-03 1.87E-04 4.23E-04 4.29E-04 8.98E-05	6.38E+01 4.01E+01 1.71E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.01E-01 6.37E-02 4.24E-02 2.94E-02 6.94E-03 2.39E-03 1.04E-03 5.24E-04 1.79E-04 1.16E-04 7.88E-05 2.35E-05	8.01E+01 3.44E+01 1.11E+01 2.33E+00 6.70E-01 2.47E-01 1.95E-02 2.17E-02 1.42E-02 9.69E-03 2.11E-03 7.03E-04 1.51E-04 1.51E-05 5.08E-05 3.26E-05 2.11E-05 6.30E-06	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.01E-02 2.11E-02 7.24E-03 4.62E-03 3.08E-03 6.47E-04 9.11E-05 4.53E-05 1.50E-05 1.50E-06 6.35E-06 6.35E-06 1.76E-06
0.0 0.5 1.0 3.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 45.0 45.0 45.0 45.0 70.0 80.	2.74E+01 2.72E+01 2.63E+01 1.97E+01 1.57E+01 1.57E+01 1.57E+01 7.00E+00 5.36E+00 4.17E+00 3.29E+00 5.50E-01 2.84E-01 1.69E-01 1.14E-01 8.38E-02 6.45E-02 5.09E-02 3.31E-02 2.26E-02 1.63E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.85E+01 1.30E+01 9.11E+00 4.71E+00 2.70E+00 2.11E+00 7.24E-01 3.52E+00 2.11E-01 3.52E+00 2.11E-01 3.52E-02 4.53E-02 4.53E-02 4.53E-02 4.53E-02 4.53E-02 4.7E-03 7.52E-03 6.21E-03	3.85E+01 3.71E+01 3.36E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00 2.95E+00 2.16E+00 1.23E+00 3.74E-01 1.55E-01 7.96E-02 2.86E-02 1.89E-02 1.81E-03 5.75E-03 3.88E-03 2.85E-03	8KEV 4.39E+01 4.10E+01 1.90E+01 1.02E+01 5.88E+00 3.69E+00 1.66E+00 1.16E+00 6.05E-01 1.66E-02 3.20E-02 1.75E-02 1.06E-02 6.88E-03 4.75E-03 1.97E-03 1.25E-04 6.23E-04	16KEV 4.92E+01 4.33E+01 1.31E+01 6.22E+00 3.40E+00 2.00E+00 1.23E+00 7.80E-01 5.14E-01 3.50E-01 6.32F-02 1.12E-02 1.12E-03 3.54E-03 2.25E-03 1.50E-03 3.54E-03 2.25E-03 1.50E-04 3.44E-04 2.25E-04	5.51E+01 4.31E+01 2.46E+00 3.46E+00 1.70E+00 8.93E-01 2.98E-01 1.88E-01 1.88E-01 2.71E-02 2.16E-02 7.89E-03 3.55E-03 1.05E-03 6.423E-04 4.23E-04 4.29E-04 8.98E-05 5.75E-05 3.96E-05	6.38E+01 4.01E+01 1.71E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.74E-01 1.74E-02 4.24E-02 2.94E-02 6.94E-03 2.39E-03 1.04E-04 1.76E-04 1.76E-04 1.76E-05 4.07E-05 2.35E-05 1.98E-06	8.01E+01 3.44E+01 1.11E+00 6.70E-01 2.47E-01 1.12E-02 1.12E-02 3.48E-02 2.17E-02 1.42E-03 2.17E-02 1.595E-03 2.01E-04 3.01E-04 3.01E-04 3.01E-05 5.08E-05 5.08E-05 5.08E-05 5.08E-05 5.08E-06 3.08E-06	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.01E-02 1.20E-02 7.24E-03 4.62E-03 3.08E-03 6.47E-04 9.11E-05 2.50E-05 1.50E-06 6.35E-06 1.76E-06 1.76E-06 6.78E-07
0.0 0.5 1.0 2.0 3.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 25.0 45.0 45.0 60.0 45.0	2.74E+01 2.72E+01 2.64E+01 1.97E+01 1.57E+01 1.21E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 5.50E-01 2.84E-01 1.64E-01 8.38E-02 6.45E-02 1.63E-02 1.29E-02 1.29E-02 1.29E-02 1.18E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.30E+01 9.11E+00 6.47E+00 3.52E+00 2.70E+00 2.11E+00 7.24E-01 3.08E-01 1.61E-01 6.51E-02 4.53E-02 4.53E-02 4.53E-02 4.53E-02 5.53E-03 6.21E-03 6.21E-03 6.21E-03	3.85E+01 3.71E+01 3.36E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00 2.16E+00 1.61E+00 1.55E-01 7.96E-02 4.60E-02 4.60E-02 1.89E-02 1.89E-02 1.89E-03 3.78E-03 3.88E-03 2.85E-03	8KEV 4.39E+81 4.10E+01 1.90E+01 1.90E+01 5.88E+00 2.44E+00 1.66E+00 1.16E+01 6.05E-01 1.660E-02 3.20E-02 1.76E-02 1.88E-03 4.75E-03 3.43E-03 1.97E-03 8.58E-04 4.75E-04	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.14E-01 2.46E-01 6.32E-02 1.12E-02 5.99E-03 1.50E-03 1.50E-03 1.50E-03 1.50E-04 1.57E-04	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 5.00E-01 1.88E-01 1.88E-01 1.88E-01 2.98E-01 3.55E-02 2.16E-02 7.89E-03 3.55E-03 1.84E-03 1.84E-03 1.84E-04 4.23E-04 4.29E-04 4.99E-04 8.98E-05 5.75E-05 3.96E-05	6.38E+01 4.01E+01 1.71E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.01E-01 6.37E-02 4.24E-02 2.94E-02 2.94E-03 2.39E-03 1.04E-03 2.39E-03 1.04E-04 7.88E-05 2.35E-05 1.48E-05 2.35E-05 7.13E-06	8.01E+01 3.44E+01 1.11E+01 1.11E+01 6.70E-01 2.47E-01 1.12E-02 3.48E-02 2.17E-02 1.42E-02 3.69E-03 2.11E-03 7.03E-04 1.51E-04 3.01E-04 1.51E-05 5.08E-05 3.26E-05 2.19E-05 6.30E-06 3.88E-06 2.56E-06	1.16E+02 2.77E+01 7.13E+01 1.00E+00 2.43E-01 8.85E-02 4.01E-02 2.11E-02 7.24E-03 4.62E-03 3.08E-03 6.47E-04 9.11E-05 4.53E-05 1.50E-05 1.50E-06 6.35E-06 1.76E-06 1.76E-06 1.76E-07 4.58E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 45.0 60.0 70.0 60.0 70.0 60.0	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 9.20E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 1.22E+01 1.69E-01 1.14E-01 8.38E-02 5.59E-02 3.31E-02 2.26E-02 1.29E-02 1.29E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.85E+01 1.30E+01 9.11E+00 4.71E+00 2.70E+00 2.70E+00 7.24E-01 1.61E-01 9.81E-02 4.53E-02 4.53E-02 3.26E-02 2.42E-02 1.47E-02 9.96E-03 7.52E-03 5.53E-03	3.85E+01 3.71E+01 3.35E+01 1.48E+01 9.28E+00 6.05E+00 2.95E+00 2.16E+00 1.61E+00 1.23E+00 3.74E-01 7.96E-02 2.86E-02 1.89E-02 2.86E-02 1.81E-03 3.85E-03 2.22E+03	8KEV 4.39E+01 4.10E+01 1.90E+01 1.90E+01 1.02E+01 5.88E+00 2.44E+00 1.66E+00 1.66E+01 6.05E-01 1.660E-02 3.20E-02 1.75E-02 1.06E-03 3.43E-03 4.75E-03 3.43E-03 1.25E-03 4.75E-04 4.75E-04	16KEV 4.92E+01 4.33E+01 1.31E+01 6.22E+00 3.40E+00 2.00E+00 1.23E+00 7.80E-01 5.14E-01 3.50E-01 6.32F-02 1.12E-02 1.12E-03 3.54E-03 2.25E-03 1.50E-03 3.54E-03 2.25E-03 1.50E-04 3.44E-04 2.25E-04	5.51E+01 4.31E+01 2.46E+00 3.46E+00 1.70E+00 8.90E-01 2.98E-01 1.88E-01 1.87E-02 2.16E-02 7.89E-03 3.55E-03 1.84E-03 1.84E-03 1.84E-03 1.85E-04 4.23E-04 4.23E-04 2.90E-04 1.52E-04 8.98E-05 3.96E-05 3.96E-05 3.96E-05	6.38E+01 4.01E+01 1.71E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.74E-01 1.74E-02 4.24E-02 2.94E-02 6.94E-03 2.39E-03 1.04E-04 1.76E-04 1.76E-04 1.76E-05 4.07E-05 2.35E-05 1.98E-06	8.01E+01 3.44E+01 1.11E+00 6.70E-01 2.47E-01 1.12E-02 1.12E-02 3.48E-02 2.17E-02 1.42E-03 2.17E-02 1.595E-03 2.01E-04 3.01E-04 3.01E-04 3.01E-05 5.08E-05 5.08E-05 5.08E-05 5.08E-05 5.08E-06 3.08E-06	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.01E-02 1.20E-02 7.24E-03 4.62E-03 3.08E-03 6.47E-04 9.11E-05 2.50E-05 1.50E-05 1.53E-06 3.16E-06 1.76E-06 1.76E-06 6.78E-07
0.0 0.5 1.0 2.0 3.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 25.0 45.0 45.0 60.0 45.0	2.74E+01 2.72E+01 2.64E+01 1.97E+01 1.57E+01 1.21E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 5.50E-01 2.84E-01 1.64E-01 8.38E-02 6.45E-02 1.63E-02 1.29E-02 1.29E-02 1.29E-02 1.29E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.30E+01 9.11E+00 6.47E+00 3.52E+00 2.70E+00 2.11E+00 7.24E-01 3.08E-01 1.61E-01 6.51E-02 4.53E-02 4.53E-02 4.53E-02 4.53E-02 5.53E-03 6.21E-03 6.21E-03 6.21E-03	3.85E+01 3.71E+01 3.36E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00 2.16E+00 1.61E+00 1.55E-01 7.96E-02 4.60E-02 4.60E-02 1.89E-02 1.89E-02 1.89E-03 3.78E-03 3.88E-03 2.85E-03	8KEV 4.39E+81 4.10E+01 1.90E+01 1.90E+01 5.88E+00 2.44E+00 1.66E+00 1.16E+01 6.05E-01 1.660E-02 3.20E-02 1.76E-02 1.88E-03 4.75E-03 3.43E-03 1.97E-03 8.58E-04 4.75E-04	16KEV 4.92E+01 4.33E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.150E-01 2.46E-01 6.32E-02 1.12E-02 5.99E-03 3.54E-03 1.55E-03 1.55E-03 1.55E-03 1.55E-03 1.55E-04 1.57E-04 1.7E-04 9.08E-05	5.51E+01 4.31E+01 2.46E+01 8.04E+00 3.46E+00 1.70E+00 8.93E-01 5.00E-01 1.88E-01 1.88E-01 1.88E-01 2.98E-01 8.71E-02 2.16E-02 7.89E-03 3.55E-03 1.84E-03 1.84E-03 1.84E-04 4.23E-04 4.29E-04 4.99E-04 8.98E-05 5.75E-05 3.96E-05	6.38E+01 4.01E+01 1.71E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.74E-01 1.01E-01 6.37E-02 4.24E-02 6.34E-03 2.39E-03 1.04E-03 5.24E-04 1.76E-04 1.76E-05 4.07E-05 4.07E-05 9.98E-06 7.13E-06 5.34E-06	8.01E+01 3.44E+01 1.11E+00 6.70E-01 2.47E-01 1.12E-01 1.12E-02 3.48E-02 2.17E-02 1.42E-03 2.11E-03 3.01E-04 3.01E-04 8.41E-05 5.08E-05 2.19E-05 1.11E-05 6.30E-06 2.56E-06	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 1.20E-02 7.24E-03 4.62E-03 3.08E-03 6.47E-04 2.14E-05 4.53E-05 2.50E-05 1.50E-06 6.35E-06 6.35E-06 6.78E-07 4.58E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 15.0 25.0 25.0 45.0	2.74E+01 2.72E+01 2.64E+01 1.97E+01 1.57E+01 1.57E+01 1.20E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 1.22E+00 1.28E+01 1.69E-01 1.69E-01 1.69E-02 3.8E-02 6.45E-02 1.63E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02 1.26E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.85E+01 1.30E+01 9.11FE+00 4.71E+00 3.52E+00 2.71E+00 7.08E-01 1.61E-02 4.53E-02 4.53E-02 4.53E-02 4.54E-02 4.52E-03 7.52E-03 5.51E-03 5.51E-03 5.51E-03 5.11E-03 5.23E-03	3.85E+01 3.71E+01 3.36E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00 2.16E+00 1.61E+00 1.23E+00 3.74E-01 1.55E-01 7.96E-02 2.86E-02 1.89E-02 1.89E-03 3.88E-03 2.85E-03 2.85E-03 1.81E-03 1.35E-03 1.35E-03 1.35E-03 1.35E-03 1.35E-03 1.35E-03	8KEV 4.39E+81 4.10E+01 1.90E+01 1.90E+01 1.90E+00 2.44E+00 1.66E+00 1.16E+01 1.66E+01 1.66E+0	16KEV 4.92E+01 4.33E+01 3.10E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.14E-01 2.46E-01 6.329E-03 3.54E-03 2.25E-03 1.50E-03 1.50E-03 1.50E-03 1.50E-04 1.57E-04 1.7E-04 9.36E-05 5.42E-05	5.51E+01 4.31E+01 2.46E+00 3.46E+00 1.70E+00 8.93E-01 5.00E-01 1.88E-01 1.88E-01 1.88E-01 2.98E-03 3.55E-02 2.16E-02 7.89E-03 3.55E-03 1.05E-04 4.23E-04 4.23E-04 4.23E-04 2.90E-04 8.98E-05 5.76E-05 2.87E-05 1.75E-05 1.75E-05 1.25E-05	6.38E+01 4.01E+01 1.71E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.74E-01 6.37E-02 4.24E-02 2.94E-02 2.94E-03 2.39E-03 1.04E-03 2.39E-03 1.04E-04 7.88E-05 2.39E-05 1.48E-05 2.35E-05 1.48E-06 5.34E-06 4.18E-06 5.34E-06 2.90E-06	8.01E+01 3.44E+01 1.11E+01 1.11E+00 6.70E-01 2.47E-01 1.125E-02 2.47E-02 2.17E-02 2.17E-02 2.17E-02 3.7.03E-04 3.01E-04 3.01E-05 5.08E-05 3.26E-05 3.26E-05 6.30E-06 3.88E-06 1.78E-06 1.78E-06 1.78E-07 6.59E-07	1.16E+02 2.77E+01 7.13E+01 1.00E+00 2.43E-01 8.85E-02 4.05E-02 2.11E-02 7.24E-03 4.62E-03 3.08E-03 6.47E-04 9.11E-05 4.53E-05 1.50E-06 1.76E-06 1.76E-06 1.76E-06 1.76E-07 4.58E-07 2.38E-07 1.45E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 9.0 10.0 10.0 20.0 40	2.74E+01 2.72E+01 2.64E+01 2.35E+01 1.97E+01 1.57E+01 9.20E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 1.22E+00 1.24E-01 1.69E-01 1.14E-01 8.38E-02 5.45E-02 2.26E-02 1.29E-02 1.29E-02 1.29E-02 1.29E-02 2.26E-02 1.29E-02 2.26E-02 1.26E-02 1.49E-02 1.49E-02 1.49E-02 1.49E-02 1.49E-02 1.54E-02 1.54E-02 1.54E-02 1.54E-02 1.54E-02 1.54E-02 1.54E-02 1.54E-02 1.54E-02 1.54E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.85E+01 1.85E+01 9.14FE+00 4.71E+00 2.70E+00 2.70E+00 7.24E-01 9.81E-02 4.53E-01 9.81E-02 4.53E-02 2.42E-02 2.42E-02 2.42E-03 5.26E-02 5.21E-03 5.21E-03 5.21E-03 5.21E-03 5.21E-03 5.21E-03 5.21E-03	3.85E+01 3.71E+01 3.35E+01 1.48E+01 9.28E+00 6.05E+00 2.95E+00 2.16E+00 1.61E+00 1.23E+00 3.74E-01 1.596E-02 2.86E-02 1.81E-03 3.85E-03 2.22E-03 1.54E-03 1.54E-03 1.54E-03 1.05E-03	8KEV 4.39E+01 4.10E+01 1.90E+01 1.90E+01 1.02E+00 1.66E+00 1.66E+00 1.66E+00 1.66E+01 1.660E-02 1.75E-02 1.75E-02 1.75E-02 1.75E-03 3.43E-03 1.25E-03 4.75E-03 3.43E-03 4.75E-04 4.75E-04 2.79E-04 2.19E-04	16KEV 4.92E+01 4.33E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.150E-01 2.46E-01 2.46E-01 2.32F-02 1.12E-02 5.99E-03 3.54E-03 1.05E-03 1.05E-03 1.05E-04 1.57E-04 1.17E-04 1.17E-05 6.24E-05 6.24E-05 6.24E-05 6.24E-05 6.24E-05 6.24E-05 6.24E-05 6.24E-05 6.24E-05 6.24E-05 6.24E-05	5.51E+01 4.31E+01 2.46E+00 3.46E+00 1.70E+00 8.90E-01 2.98E-01 1.88E-01 1.871E-02 2.189E-03 3.55E-03 1.84E-03 1.85E-03 1.85E-03 2.89E-04 4.23E-04 4.23E-04 8.98E-05 3.96E-05 3.96E-05 3.96E-05 1.75E-05 1.75E-05 1.12E-05 1.12E-05	6.38E+01 4.01E+01 1.71FE+00 1.67E+00 6.97E-01 3.78E-01 1.78E-01 1.78E-02 4.24E-02 6.37E-02 4.24E-02 6.37E-02 4.24E-02 6.37E-02 4.24E-02 6.37E-05 7.38E-04 1.76E-04 1.76E-05 4.07E-06 4.18E-06 4.18E-06 4.18E-06 4.18E-06 4.18E-06 4.18E-06 4.18E-06 4.18E-06 4.18E-06	8.01E+01 3.44E+01 1.13E+00 6.70E-01 2.47E-01 1.12E-01 1.12E-02 3.48E-02 2.17E-02 3.48E-02 2.17E-02 3.48E-03 2.11E-04 3.01E-04 3.01E-04 3.01E-05 5.08E-05 2.19E-05 1.11E-05 6.38E-06 2.56E-06 1.78E-06 7.89E-07 7.95E-07 5.70E-07	1.16E+02 2.77E+01 7.13E+01 1.00E+00 1.00E+00 2.43E-01 8.85E-02 2.11E-02 1.20E-02 7.24E-03 4.62E-03 6.47E-04 2.11E-05 4.53E-05 1.50E-05 1.50E-06 6.78E-07 4.58E-07 1.45E-07 1.45E-07 1.45E-07
0.0 0.5 1.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 20.0 40.0	2.74E+01 2.72E+01 2.64E+01 1.97E+01 1.97E+01 1.97E+01 1.92E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 1.22E+00 2.56E-01 1.14E-01 5.38E-02 2.26E-02 1.29E-02 1.29E-02 1.29E-02 1.29E-02 1.26E-02 1.29E-02 2.26E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.85E+01 1.30E+01 9.117E+00 4.71E+00 3.52E+00 2.11E+00 7.24E-01 3.68E-02 4.53E-02 4.53E-02 4.53E-02 4.54E-03 5.54E-03 5.21E-03 5.21E-03 5.21E-03 5.21E-03 5.21E-03 5.21E-03 5.21E-03 5.21E-03	3.85E+01 3.71E+01 3.35E+01 1.48E+01 9.28E+00 6.05E+00 2.95E+00 2.16E+00 1.23E+00 3.74E-01 1.596E-02 2.86E-02 1.81E-03 3.88E-03 2.85E-03 2.85E-03 2.85E-03 1.81E-03 1.55E-03 1.55E-03 1.55E-03	8KEV 4.39E+01 4.10E+01 1.90E+01 1.02E+01 1.02E+00 1.06E+00 1.66E+00 1.66E+00 1.66E+00 1.66E+00 1.66E+00 1.75E-02 1.75E-02 1.75E-03 1.75E-03 1.25E-04 4.75E-04 2.79E-04 2.79E-04 2.79E-04	16KEV 4.92E+01 4.33E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.140E-01 5.140E-01 6.25E-01 6.25E-01 6.25E-01 6.35E-01	5.51E+01 4.31E+01 2.46E+00 3.46E+00 1.70E+00 8.93E-01 2.98E-01 1.88E-01 1.88E-01 2.98E-01 2.98E-01 2.98E-01 1.89E-02 2.16E-02 2.55E-03 1.05E-04 4.23E-04 4.23E-04 8.76E-05 1.75E-05 1.45E-05 1.45E-05 1.12E-05 1.12E-05 1.05E-05 1.12E-05	6.38E+01 4.01E+01 1.71E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.74E-01 1.74E-02 4.24E-02 6.94E-02 6.94E-03 2.39E-04 1.16E-04 1.16E-04 1.16E-04 1.16E-05 2.35E-05 9.98E-06 4.18E-06 3.42E-06 2.55E-06 2.34E-06 2.54E-06 2.54E-06 2.54E-06 2.54E-06 2.54E-06 2.54E-06	8.01E+01 3.44E+01 1.13E+00 6.70E-01 2.47E-01 1.12E+02 3.48E-02 2.17E-02 3.48E-02 2.17E-02 3.48E-02 2.17E-03 2.11E-04 8.41E-05 5.26E-05 1.11E-05 6.30E-06 1.78E-06 3.88E-06 1.78E-07 6.795E-07 6.795E-07 5.74E-07	1.16E+02 2.77E+01 7.13E+00 1.00E+00 2.43E-01 8.85E-02 4.05E-02 1.20E-02 7.24E-03 4.62E-03 6.47E-04 2.11E-05 4.53E-05 2.50E-05 1.50E-06 1.76E-06 1.76E-06 1.76E-06 1.76E-07 1.82E-07 1.82E-07 1.05E-07
0.0 0.5 1.0 3.0 3.0 7.0 8.0 9.0 10.0 15.0 25.0 40.0 40.0 10	2.74E+01 2.72E+01 2.62E+01 1.97E+01 1.97E+01 1.97E+01 1.97E+01 1.920E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.28E+01 1.69E-01 1.14E-01 8.38E-02 6.45E-02 1.62E-02 1.62E-02 1.62E-02 1.8E-02 2.8E-02 2.8E-02 2.8E-02 2.8E-02 3.04E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.85E+01 1.30E+01 9.11E+00 4.71E+00 3.52E+00 2.70E+00 7.24E+00 7.24E-01 1.61E-02 4.526E-02 4.526E-02 4.526E-02 4.526E-02 5.526E-03	3.85E+01 3.71E+01 3.35E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00 2.16E+00 1.61E+00 1.23E+00 1.61E+00 1.23E+00 2.16E+00 1.23E+00 1.25E-03 3.74E-01 1.796E-02 2.86E-02 1.81E-03 3.88E-03 2.82E-03 1.81E-03 1.35E-03 1.35E-03 1.35E-03 1.35E-03	8KEV 4.39E+81 4.10E+01 1.90E+01 1.90E+01 5.88E+00 2.44E+00 1.66E+00 1.16E+00 1.16E+00 1.16E-01 1.66E-02 3.20E-02 1.76E-02 1.76E-02 1.88E-03 4.75E-03 3.43E-03 1.97E-03 8.58E-04 4.75E-04 3.14E-04 2.39E-04 1.98E-04	16KEV 4.92E+01 4.33E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.14E-01 2.46E-01 2.46E-01 2.46E-01 2.46E-01 3.59E-03 2.59E-03 1.59E-03 2.25E-03 1.59E-03 1.59E-04 1.77E-04 1.78E-04 1.78E-05 5.42E-05 4.89E-05 4.36E-05	5.51E+01 4.31E+01 2.46E+00 3.46E+00 1.70E+00 8.93E-01 2.98E-01 1.88E-01 1.88E-01 1.89E-03 3.58E-03 3.58E-03 1.05E-03 6.473E-04 4.29E-04 8.98E-05 5.76E-05 1.75E-05 1.75E-05 1.25E-05	6.38E+01 4.01E+01 1.71E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.74E-02 4.24E-02 2.94E-02 2.94E-02 2.94E-03 31.04E-03 32.39E-03 32.39E-03 32.39E-04 1.16E-05 2.94E-04 1.16E-05 2.35E-05 3.48E-06	8.01E+01 3.44E+01 1.11E+00 6.70E-01 2.47E-01 1.12E+02 3.48E-02 2.17E-02 1.42E-03 2.17E-02 1.42E-03 2.11E-04 8.41E-05 5.08E-05 5.08E-05 5.16E-05 6.30E-06 1.78E-06 1.78E-07 6.59E-07 6.59E-07	1.16E+02 2.77E+01 7.13E+01 1.00E+00 2.43E-01 8.85E-02 4.01E-02 1.20E-03 4.62E-03 3.08E-03 6.47E-04 9.11E-05 2.50E-05 1.53E-06 3.16E-06 1.76E-06 6.78E-07 4.28E-07 1.42E-07 1.45E-07 1.45E-07 1.05E-08
0.0 0.5 1.0 3.0 4.0 5.0 6.0 9.0 10.0 15.0 25.0 45.0 45.0 60.0 60.0 10.0 110.0 120.0 110.0 120.0 110.0 120.0	2.74E+01 2.72E+01 2.64E+01 1.97E+01 1.97E+01 1.97E+01 1.97E+01 1.920E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.22E+00 1.28E-01 1.69E-01 1.14E-01 1.14E-01 1.14E-02 1.29E+02 2.26E-02 1.29E+02 2.26E-02 1.29E+02 2.26E-02 1.29E-02 2.26E-02 2.36E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.85E+01 1.85E+00 0.47E+00 4.71E+00 2.70E+00 2.71E+00 7.04E-01 1.61E-01 9.81E-02 4.53E-02 2.42E-02 2.42E-02 2.42E-02 2.42E-03 5.21E-03	3.85E+01 3.71E+01 3.35E+01 1.48E+01 9.28E+00 6.015E+00 2.95E+00 2.16E+00 1.61E+00 1.62E+00 3.74E-01 7.96E-02 4.60E-02 2.86E-02 1.31E-02 9.59E-03 5.75E-03 2.85E-03 2.85E-03 1.54E-03 1.54E-03 1.54E-03 1.55E-03 1.55E-03 1.75E-03 1.75E-03	8KEV 4.39E+01 1.91E+01 1.91E+01 1.92E+01 5.88E+00 2.44E+00 1.66E+00 1.66E+00 1.66E+01 1.66E-01 1.66E-02 1.76E-02 1.76E-02 1.76E-03 4.75E-03 3.43E-03 1.25E-04 4.79E-04 2.19E-04 2.19E-04 2.19E-04 1.98E-04 1.98E-04	16KEV 4.92E+01 4.33E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.14E-01 2.46E-01 6.32F-02 3.50E-01 2.46E-01 6.32F-03 3.50E-03 3.50E-03 1.50E-03 1.50E-03 1.50E-03 1.50E-04 1.70E-04 1.70E-04 1.70E-05 4.89E-05 4.89E-05 4.36E-05 4.36E-05 4.36E-05	5.51E+01 4.31E+01 2.40E+00 3.46E+00 3.46E+00 1.70E+00 8.90E-01 2.98E-01 1.88E-01 1.871E-02 2.89E-03 1.84E-03 1.85E-03 1.84E-03 2.89E-04 1.52E-04 2.90E-04 1.52E-05 3.96E-05 1.45E-05	6.38E+01 4.01E+01 1.71FE+00 1.67E+00 6.97E-01 1.74E-01 1.74E-01 1.74E-02 4.24E-02 6.37E-02 4.24E-02 6.37E-02 4.24E-02 6.37E-02 7.34E-04 7.88E-05 7.16E-05 7.16E-05 7.16E-05 7.16E-06 7.17E-06 7.18E-06	8.01E+01 3.44E+01 1.13E+00 6.70E-01 2.13E+00 6.70E-01 1.12E-01 5.95E-02 3.48E-02 2.17E-02 3.48E-02 2.11E-03 3.01E-04 3.01E-04 3.11E-04 3.11E-05 3.26E-05 2.19E-05 1.11E-06 3.88E-06 2.56E-06 1.78E-06 3.88E-06 2.56E-07 5.70E-07 5.70E-07 4.80E-07	1.16E+02 2.77E+01 7.13E+00 1.00E+00 1.03E+00 2.43E-02 4.05E-02 1.20E-02 7.24E-03 4.62E-03 6.47E-04 2.11E-05 4.53E-05 2.50E-05 1.553E-06 6.356E-06 1.06E-06 1.06E-07 4.58E-07 1.82E-07 1.82E-07 1.82E-07 1.93E-08
0.0 0.5 1.0 3.0 3.0 7.0 8.0 9.0 10.0 15.0 25.0 40.0 40.0 10	2.74E+01 2.72E+01 2.62E+01 1.97E+01 1.97E+01 1.97E+01 1.97E+01 1.920E+00 7.00E+00 5.36E+00 4.17E+00 3.29E+00 1.28E+01 1.69E-01 1.14E-01 8.38E-02 6.45E-02 1.62E-02 1.62E-02 1.62E-02 1.8E-02 2.8E-02 2.8E-02 2.8E-02 2.8E-02 3.04E-02	3.29E+01 3.23E+01 3.06E+01 1.85E+01 1.85E+01 1.30E+01 9.11E+00 4.71E+00 3.52E+00 2.70E+00 7.24E+00 7.24E-01 1.61E-02 4.526E-02 4.526E-02 4.526E-02 4.526E-02 5.526E-03	3.85E+01 3.71E+01 3.35E+01 1.48E+01 9.28E+00 6.05E+00 4.15E+00 2.16E+00 1.61E+00 1.23E+00 1.61E+00 1.23E+00 2.16E+00 1.23E+00 1.25E-03 3.74E-01 1.796E-02 2.86E-02 1.81E-03 3.88E-03 2.82E-03 1.81E-03 1.35E-03 1.35E-03 1.35E-03 1.35E-03	8KEV 4.39E+81 4.10E+01 1.90E+01 1.90E+01 5.88E+00 2.44E+00 1.66E+00 1.16E+00 1.16E+00 1.16E-01 1.66E-02 3.20E-02 1.76E-02 1.76E-02 1.88E-03 4.75E-03 3.43E-03 1.97E-03 8.58E-04 4.75E-04 3.14E-04 2.39E-04 1.98E-04	16KEV 4.92E+01 4.33E+01 1.31E+01 6.22E+00 3.40E+00 1.23E+00 7.80E-01 5.14E-01 2.46E-01 2.46E-01 2.46E-01 2.46E-01 3.59E-03 2.59E-03 1.59E-03 2.25E-03 1.59E-03 1.59E-04 1.77E-04 1.78E-04 1.78E-05 5.42E-05 4.89E-05 4.36E-05	5.51E+01 4.31E+01 2.46E+00 3.46E+00 1.70E+00 8.93E-01 2.98E-01 1.88E-01 1.88E-01 1.89E-03 3.58E-03 3.58E-03 1.05E-03 6.473E-04 4.29E-04 8.98E-05 5.76E-05 1.75E-05 1.75E-05 1.25E-05	6.38E+01 4.01E+01 1.71E+00 1.67E+00 6.97E-01 3.28E-01 1.74E-01 1.74E-02 4.24E-02 2.94E-02 2.94E-02 2.94E-03 31.04E-03 32.39E-03 32.39E-03 32.39E-04 1.16E-05 2.94E-04 1.16E-05 2.35E-05 3.48E-06	8.01E+01 3.44E+01 1.11E+00 6.70E-01 2.47E-01 1.12E+02 3.48E-02 2.17E-02 1.42E-03 2.17E-02 1.42E-03 2.11E-04 8.41E-05 5.08E-05 5.08E-05 5.16E-05 6.30E-06 1.78E-06 1.78E-07 6.59E-07 6.59E-07	1.16E+02 2.77E+01 7.13E+01 1.00E+00 2.43E-01 8.85E-02 4.01E-02 1.20E-03 4.62E-03 3.08E-03 6.47E-04 9.11E-05 2.50E-05 1.53E-06 3.16E-06 1.76E-06 6.78E-07 4.28E-07 1.42E-07 1.45E-07 1.45E-07 1.05E-08

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

				NICKEL	. 7=2A				
ANGLE	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
0.0	2.19E+01	2.64E+01	3.12E+01	3.59E+01	4.06E+01	4.59E+01	5.34E+01	6.73E+01	9.80E+01
0.5	2.17E+01	2.60E+01	3.02E+01	3.38E+01	3.63E+01	3.69E+01	3.53E+01	3.16E+01	2.66E+01
1.0	2.11E+01	2.47E+01	2.76E+01 2.00E+01	2.86E+01	2.69E+01 1.22E+01	2.23E+01 7.84E+00	1.62E+01	1.10E+01 2.52E+00	7.41E+00 1.15E+00
2.0 3.0	1.90E+01 1.62E+01	2.05E+01 1.56E+01	1.31E+01	1.69E+01 9.41E+00	6.03E+00	3.53E+00	4.66E+00 1.80E+00	7.65E-01	2.82E-01
4.0	1.31E+01	1.13E+01	8.44E+00	5.60E+00	3.39E+00	1.80E+00	7.82E-01	2.86E-01	1.01E-01
5.0	1.045+01	8.12E+00	5.63E+00	3.58E+80	2.05E+00	9.73E-01	3.76€-01	1.30E-01	4.61E-02
6.0	3.03E+00	5.87E+00	3.92E+00	2.41E+00	1.29E+00	5.56E-01	2.00E-01	6.80E-02	2.41E-82
7.0	6.215+00	4.33E+00	2.83E+00	1.67E+00	8.34E-01 5.57E-01	3.35E-01 2.13E-01	1.16E-01	3.96E-02	1.37E-02 8.34E-03
8.0 9.0	4.82E+00 3.79E+00	3.28F+00 2.53E+00	2.09E+00 1.58E+00	1.19E+00 8.60E-01	3.84E-81	1.42E-01	7.27E-02 4.81E-02	2.47€-02 1.62E-02	5.34E-03
10.0	3.01E+00	1.99E+00	1.21E+00	6.33E-01	2.72E-01	9.87E-02	3.33E-02	1.11E-02	3.57E-03
		T 075 04	7 075 04	. 705 04	7 2/5 22				
15.0 20.0	1.15E+00 5.25E-01	7.07E-01 3.05E-01	3.83E-01 1.60E-01	1.78E-01 7.18E-02	7.04E-02 2.67E-02	2.43E-02 8.91E-03	7.90E-03 2.75E-03	2.44E-03 8.15E-04	7.52E-04 2.49E-04
25.0	2.71E-01	1.59E-01	8.34E-02	3.52E-02	1.25E-02	4.04E-03	1.20E-03	3.49E-04	1.06E-04
30.0	1.60E-01	9.76E-02	4.91E-02	1.95E-02	6.72E-03	2.10E-03	6.07E-04	1.75E-04	5.27E-05
35.0	1.07E-01	6.58E-02	3.11E-02	1.18E-02	3.99E-03	1.21E-03	3.42E-04	9.78E-05	2.92E-05
40.0	7.89E-02	4.68E-02	2.07E-02	7.65E-03	2.54E-03	7.48E-04	2.09E-04	5.92E-05	1.75E-05
45.0	6.15E-02	3.43E-02	1.45E-02	5.28E-03	1.71E-03	4.91E-04	1.35E-04	3.81E-05	1.12E-05
50.0 60.0	4.94E-02 3.36E-02	2.59E-02 1.59E-02	1.06E-02 6.33E-03	3.82E-03 2.22E-03	1.20E-03 6.59E-04	3.37E-04 1.78E-04	9.20E-05 4.77E-05	2.57E-05 1.31E-05	7.50E+06 3.74E-06
70.0	2.36E-02	1-08E-02	4.28E-03	1.43E-03	4.00E-04	1.05E-04	2.76E-05	7.42E-06	2.08E-06
80.0	1.70E-02	8.13E-03	3.16E-03	9.86E-04	2.63E-04	6.74E-05	1.74E-05	4.58E-06	1.25E-06
90.0	1.31E-02	6.71E-03	2.49E-03	7.23E-04	1.85E-04	4.65E-05	1.18E-05	3.02E-06	8.03E-07
400 0	4 465-02	6 075-07	2 075-07	E 575-06	1 775-06	7 705-05	0 445 06	2 445 66	E 155 07
100.0 110.0	1.16E-02 1.26E-02	6.03E-03 5.78E-03	2.07E-03 1.78E-03	5.57E-04 4.48E-04	1.37E-04 1.07E-04	3.39E-05 2.59E-05	8.41E-06 6.30E-06	2.11E-06 1.55E-06	5.45E-07 3.86E-07
120.0	1.56E-02	5.81E-03	1.59E-03	3.74E-04	8.73E-05	2.08E-05	4.96E-06	1.18E-06	2.84E-07
130.0	2.02E-02	6.00E-03	1.45E-03	3.23E-04	7.38E-05	1.72E-05	4.04E-06	9.42E-07	2.16E-07
140.0	2.57E-02	6.27E-03	1.35E-03	2.87E-04	6.46E-05	1.49E-85	3.43E-06	7.82E-07	1.72E-07
150.0	3.10E-02	6.55E-03	1.28E-03	2.63E-04	5.83E-05	1.33E-05	3.03E-06	6.75E-07	1.43E-07
160.0	3.55E-02	6.79E-03	1.24E-03	2.48E-04	5.43E-05	1.22E-05	2.76E-06	6.07E-07	1.25E-07
170.0	3.85E-02	6.958-03	1.21E-03	2.39E-04	5.21E-05	1.17E-05	2.62E-06	5.69E-07	1.16E-07
180.0 Total	3.95E-02 1.57E+00	7.01E-03 1.07E+00	1.21E-03 7.04E-01	2.36E-04 4.41E-01	5.14E-05 2.65E-01	1.16E-05 1.54E-01	2.59E-06 8.90E-02	5.61E-07 5.37E-02	1.14E-07 3.54E-02
TRANS	3.09E-01	1.19E-01	4.27E-02	1.44E-02	4.61E-03	1.42E-03	4.33E-04	1.34E-04	4.32E-05
				COPPER	• Z=29				
ANGLE	1KEV	2KEV	4KEV	COPPER 8KEV	, Z=29 16KEV	32KEV	64KEV	128KEV	256KEV
ANGLE 0.0	1KEV 1.47E+01	2KEV 1.80E+01	4KEV 2.15E+01			32KEV 3.28E+01	64KEV 3.84E+01	128KEV 4.85E+01	256KEV 7.07E+01
0.0 0.5	1.47E+01 1.45E+01	1.80E+01 1.77E+01	2.15E+01 2.09E+01	8KEV 2.52E+01 2.38E+01	16KEV 2.88E+01 2.59E+01	3.28E+01 2.68E+01	3.84E+01 2.64E+01	4.85E+01 2.48E+01	7.07E+01 2.31E+01
0.0 0.5 1.0	1.47E+01 1.45E+01 1.42E+01	1.80E+01 1.77E+01 1.69E+01	2.15E+01 2.09E+01 1.92E+01	8KEV 2.52E+01 2.38E+01 2.04E+01	16KEV 2.88E+01 2.59E+01 1.98E+01	3.28E+01 2.68E+01 1.72E+01	3.84E+01 2.64E+01 1.37E+01	4.85E+01 2.48E+01 1.03E+01	7.07E+01 2.31E+01 7.47E+00
0.0 0.5 1.0 2.0	1.47E+01 1.45E+01 1.42E+01 1.28E+01	1.80E+01 1.77E+01 1.69E+01 1.42E+01	2.15E+01 2.09E+01 1.92E+01 1.43E+01	8KEV 2.52E+01 2.38E+01 2.04E+01 1.28E+01	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01	3.28E+01 2.68E+01 1.72E+01 7.20E+00	3.84E+01 2.64E+01 1.37E+01 4.63E+00	4.85E+01 2.48E+01 1.03E+01 2.60E+00	7.07E+01 2.31E+01 7.47E+00 1.22E+00
0.0 0.5 1.0 2.0 3.0	1.47E+01 1.45E+01 1.42E+01 1.28E+01 1.10E+01	1.80E+01 1.77E+01 1.69E+01 1.42E+01 1.11E+01	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00	8KEV 2.52E+01 2.38E+01 2.04E+01 1.28E+01 7.85E+00	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00	3.28E+01 2.68E+01 1.72E+01 7.20E+00 3.51E+00	3.84E+01 2.64E+01 1.37E+01 4.63E+00 1.86E+00	4.85E+01 2.48E+01 1.03E+01 2.60E+00 8.10E-01	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01
0.0 0.5 1.0 2.0	1.47E+01 1.45E+01 1.42E+01 1.28E+01	1.80E+01 1.77E+01 1.69E+01 1.42E+01	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00	8KEV 2.52E+01 2.38E+01 2.04E+01 1.28E+01 7.85E+00 5.06E+00	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00 3.32E+00	3.28E+01 2.68E+01 1.72E+01 7.20E+00	3.84E+01 2.64E+01 1.37E+01 4.63E+00 1.86E+00 8.22E-01	4.85E+01 2.48E+01 1.03E+01 2.60E+00 8.10E-01 3.06E-01	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01
0.0 0.5 1.0 2.0 3.0 4.0	1.47E+01 1.45E+01 1.42E+01 1.28E+01 1.10E+01 9.13E+00	1.80E+01 1.77E+01 1.69E+01 1.42E+01 1.11E+01 8.38E+00	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00	8KEV 2.52E+01 2.38E+01 2.04E+01 1.28E+01 7.85E+00	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00	3.28E+01 2.68E+01 1.72E+01 7.20E+00 3.51E+00 1.84E+00	3.84E+01 2.64E+01 1.37E+01 4.63E+00 1.86E+00	4.85E+01 2.48E+01 1.03E+01 2.60E+00 8.10E-01	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0	1.47E+01 1.45E+01 1.42E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 5.93E+00 4.77E+00	1.80E+01 1.77E+01 1.69E+01 1.42E+01 1.11E+01 8.38E+00 6.31E+00 4.81E+00 3.72E+00	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 3.57E+00 2.66E+00	8KEV 2.52E+01 2.38E+01 2.04E+01 1.28E+01 7.85E+00 5.06E+00 3.41E+00 2.36E+00 1.66E+00	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00 3.32E+00 2.05E+00 1.31E+00 8.57E-01	3.28E+01 2.68E+01 1.72E+01 7.20E+00 3.51E+00 1.84E+00 1.01E+00 5.82E-01 3.53E-01	3.84E+01 2.64E+01 1.37E+01 4.63E+00 1.86E+00 8.22E-01 3.99E-01 2.13E-01 1.24E-01	4.85E+01 2.48E+01 1.03E+01 2.60E+00 8.10E-01 3.06E-01 1.38E-01 7.25E-02 4.20E-02	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 2.56E-02 1.46E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1.47E+01 1.45E+01 1.42E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 4.77E+00 3.85E+00	1.80E+01 1.77E+01 1.69E+01 1.42E+01 1.11E+01 8.38E+00 6.31E+00 4.81E+00 3.72E+00 2.92E+00	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 3.57E+00 2.66E+00 2.01E+00	8KEV 2.52E+01 2.38E+01 2.04E+01 1.28E+01 7.85E+00 5.06E+00 3.41E+00 2.36E+00 1.19E+00	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00 3.32E+00 2.05E+00 1.31E+00 8.57E-01 5.76E-01	3.28E+01 2.68E+01 1.72E+01 7.20E+00 3.51E+00 1.84E+00 5.82E-01 3.53E-01 2.25E-01	3.84E+01 2.64E+01 1.37E+01 4.63E+00 1.86E+00 8.22E-01 3.99E-01 2.13E-01 1.24E-01 7.74E-02	4.85E+01 2.48E+01 1.03E+01 2.60E+00 8.10E-01 3.06E-01 1.38E-01 7.25E-02 4.20E-02 2.62E-02	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 2.56E-02 1.46E-02 8.90E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 9.0	1.47E+01 1.45E+01 1.28E+01 1.10E+01 1.10E+01 9.13E+00 7.39E+00 5.93E+00 4.77E+00 3.85E+00 3.14E+00	1.80E+01 1.77E+01 1.69E+01 1.42E+01 1.11E+01 8.38E+00 6.31E+00 4.81E+00 3.72E+00 2.92E+00 2.32E+00	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 3.57E+00 2.66E+00 2.01E+00 1.54E+00	8KEV 2.552E+01 2.38E+01 2.04E+01 1.28E+01 7.85E+00 3.41E+00 2.36E+00 1.66E+00 1.19E+00 8.69E-01	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00 2.05E+00 1.31E+00 8.57E-01 5.76E-01 3.98E-01	3.28E+01 2.68E+01 1.72E+01 7.20E+00 3.51E+00 1.84E+00 1.01E+00 5.82E-01 3.53E-01 2.55E-01 1.50E-01	3.84E+01 2.64E+01 1.37E+01 4.63E+00 8.22E-01 3.99E-01 2.13E-01 1.24E-01 7.74E-02 5.12E-02	4.85E+01 2.48E+01 1.03E+01 2.60E+01 3.06E-01 1.38E-01 7.25E-02 4.20E-02 1.72E-02	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 2.56E-02 1.46E-02 8.90E-03 5.71E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1.47E+01 1.45E+01 1.42E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 4.77E+00 3.85E+00	1.80E+01 1.77E+01 1.69E+01 1.42E+01 1.11E+01 8.38E+00 6.31E+00 4.81E+00 3.72E+00 2.92E+00	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 3.57E+00 2.66E+00 2.01E+00	8KEV 2.52E+01 2.38E+01 2.04E+01 1.28E+01 7.85E+00 5.06E+00 3.41E+00 2.36E+00 1.19E+00	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00 3.32E+00 2.05E+00 1.31E+00 8.57E-01 5.76E-01	3.28E+01 2.68E+01 1.72E+01 7.20E+00 3.51E+00 1.84E+00 5.82E-01 3.53E-01 2.25E-01	3.84E+01 2.64E+01 1.37E+01 4.63E+00 1.86E+00 8.22E-01 3.99E-01 2.13E-01 1.24E-01 7.74E-02	4.85E+01 2.48E+01 1.03E+01 2.60E+00 8.10E-01 3.06E-01 1.38E-01 7.25E-02 4.20E-02 2.62E-02	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 2.56E-02 1.46E-02 8.90E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 9.0	1.47E+01 1.45E+01 1.28E+01 1.10E+01 1.10E+01 9.13E+00 7.39E+00 5.93E+00 4.77E+00 3.85E+00 3.14E+00	1.80E+01 1.77E+01 1.69E+01 1.42E+01 1.11E+01 8.38E+00 6.31E+00 4.81E+00 3.72E+00 2.92E+00 2.32E+00 1.86E+00	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 3.57E+00 2.66E+00 2.01E+00 1.54E+00	8KEV 2.52E+01 2.38E+01 2.04E+01 1.28E+01 7.85E+00 5.06E+00 3.41E+00 2.36E+00 1.66E+00 1.19E+00 8.69E-01 6.43E-01	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00 2.05E+00 1.31E+00 8.57E-01 5.76E-01 3.98E-01 2.83E-01	3.28E+01 2.68E+01 1.72E+01 7.20E+00 3.51E+00 1.84E+00 5.82E-01 3.53E-01 2.25E-01 1.05E-01	3.84E+01 2.64E+01 1.37E+01 4.63E+00 1.86E+00 8.22E-01 3.99E-01 2.13E-01 1.24E-01 7.74E-02 5.12E-02 3.54E-02	4.85E+01 2.48E+01 1.03E+01 2.60E+00 8.10E-01 3.06E-01 1.38E-01 7.25E-02 4.20E-02 2.62E-02 1.72E-02	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 2.56E-02 1.46E-02 8.90E-03 5.71E-03 3.83E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0	1.47E+01 1.45E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 4.77E+00 3.85E+00 3.14E+00 2.58E+00 1.07E+00 4.98E-01	1.80E+01 1.77E+01 1.69E+01 1.42E+01 1.11E+01 8.38E+00 6.31E+00 4.81E+00 3.72E+00 2.92E+00 2.32E+00 1.86E+00 6.86E-01 2.98E-01	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 3.57E+00 2.66E+00 2.01E+00 1.54E+00 1.19E+00	8KEV 2.52E+01 2.38E+01 2.04E+01 1.28E+01 7.85E+00 5.06E+00 2.36E+00 1.19E+00 8.69E-01 6.43E-01 1.83E-01 7.43E-02	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00 2.05E+00 1.31E+00 8.57E-01 5.76E-01 3.98E-01 2.83E-01 7.39E-02 2.82E-02	3.28E+01 2.68E+01 1.72E+01 7.20E+00 3.51E+00 1.84E+00 1.01E+00 5.82E-01 2.25E-01 1.50E-01 1.05E-01 2.58E-02 9.44E-03	3.84E+01 2.64E+01 1.37E+01 4.63E+00 1.86E+00 8.22E-01 3.99E-01 2.13E-01 7.74E-02 5.12E-02 3.54E-02 8.40E-03 2.94E-03	4.85E+01 2.48E+01 1.03E+01 2.60E+00 8.10E-01 3.06E-01 1.38E-01 7.25E-02 4.20E-02 2.62E-02 1.72E-02 1.18E-02 2.61E-03 8.76E-04	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 2.56E-02 1.46E-02 8.90E-03 5.71E-03 3.83E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1.47E+01 1.45E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 5.93E+00 4.77E+00 3.14E+00 2.58E+00 1.07E+00 4.98E-01 2.58E-01	1.80E+01 1.77E+01 1.69E+01 1.42E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.32E+00 1.86E+01 2.98E-01 1.56E-01	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 3.57E+00 2.66E+00 2.01E+00 1.54E+00 1.19E+00	8KEV 2.52E+01 2.38E+01 2.04E+01 1.28E+01 7.85E+00 5.06E+00 1.41E+00 2.36E+00 1.19E+00 6.43E-01 1.83E-01 7.43E-02 3.68E-02	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00 3.32E+00 2.05E+00 1.31E+00 8.57E-01 5.76E-01 2.83E-01 2.83E-01 7.39E-02 2.82E-02 1.32E-02	3.28E+01 2.68E+01 1.72E+01 7.20E+00 3.51E+00 1.84E+00 1.01E+00 5.82E-01 3.53E-01 3.53E-01 1.50E-01 1.05E-01 2.58E-02 9.44E-03 4.29E-03	3.84E+01 2.64E+01 1.37E+01 4.63E+00 8.22E-01 3.99E-01 2.13E-01 1.24E-01 1.24E-02 5.12E-02 3.54E-02 8.40E-03 2.94E-03 1.28E-03	4.85E+01 2.48E+01 1.03E+01 2.60E+01 3.06E-01 1.38E-01 7.25E-02 4.20E-02 1.72E-02 1.18E-02 2.61E-03 8.76E-04	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 2.56E-02 1.46E-02 8.90E-03 5.71E-03 3.83E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1.47E+01 1.45E+01 1.28E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 5.93E+00 3.85E+00 3.14E+00 2.58E+00 1.07E+00 4.98E-01 2.58E-01 1.51E-01	1.80E+01 1.77E+01 1.69E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.32E+00 1.86E+00 6.86E-01 2.98E-01 1.56E-01 9.60E-02	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 3.57E+00 2.66E+00 2.01E+00 1.54E+00 1.19E+00 3.83E-01 8.44E-02 5.02E-02	8KEV 2.52E+01 2.38E+01 2.04E+01 1.28E+01 7.85E+00 5.06E+00 3.41E+00 2.36E+00 1.66E+00 1.66E+01 6.43E-01 1.83E-01 7.43E-02 3.68E-02 2.04E-02	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00 2.05E+00 1.31E+00 8.57F-01 5.76E-01 2.88E-01 7.39E-01 2.82E-02 1.32E-02 7.09E-03	3.28E+01 2.68E+01 1.72E+00 3.51E+00 1.84E+00 1.01E+00 5.82E-01 3.53E-01 2.25E-01 1.50E-01 2.58E-02 9.44E-03 4.29E-03 2.24E-03	3.84E+01 2.64E+01 1.37E+01 1.86E+00 8.22E-01 3.99E-01 2.13E-01 1.24E-01 7.74E-02 5.12E-02 3.54E-02 8.40E-03 1.28E-03 6.51E-04	4.85E+01 2.48E+01 1.03E+01 2.60E+01 3.06E-01 1.38E-01 7.25E-02 4.20E-02 1.72E-02 1.18E-02 2.61E-03 8.76E-04 1.88E-04	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 2.56E-02 1.46E-02 8.90E-03 5.71E-03 3.83E-03 8.06E-04 2.68E-04 1.14E-04 5.68E-05
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1.47E+01 1.45E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 5.93E+00 4.77E+00 3.85E+00 3.14E+00 2.58E+00 1.07E+00 4.98E-01 1.51E-01 1.01E-01	1.80E+01 1.77E+01 1.69E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.32E+00 1.86E+00 6.86E-01 2.98E-01 9.60E-02 6.53E-02	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 2.66E+00 2.01E+00 1.54E+00 1.19E+00 3.83E-01 1.61E-01 8.44E-02 5.02E-02 3.21E-02	8KEV 2.52E+01 2.38E+01 1.28E+01 7.85E+00 5.06E+00 3.41E+00 2.36E+00 1.66E+00 1.66E+01 6.43E-01 1.83E-01 7.43E-02 3.68E-02 2.04E-02 1.24E-02	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00 2.05E+00 1.31E+00 8.57F-01 5.76E-01 3.98E-01 2.83E-01 7.39E-02 2.82E-02 1.32E-02 1.32E-03 4.21E-03	3.28E+01 2.68E+01 1.72E+01 7.20E+00 3.51E+00 1.84E+00 1.01E+00 5.82E-01 2.25E-01 1.50E-01 2.56E-01 2.56E-02 4.29E-03 4.29E-03 1.29E-03	3.84E+01 2.64E+01 1.37E+01 1.86E+00 8.22E-01 3.99E-01 2.13E-01 1.24E-01 7.74E-02 5.12E-02 3.54E-02 8.40E-03 2.94E-03 1.28E-03 6.51E-04 3.67E-04	4.85E+01 2.48E+01 1.03E+01 2.60E+00 8.10E-01 3.06E-01 1.38E-01 7.25E-02 4.20E-02 2.62E-02 1.72E-02 1.18E-02 2.61E-03 8.76E-04 3.75E-04 1.88E-04 1.05E-04	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 2.56E-02 1.46E-02 8.90E-03 5.71E-03 3.83E-03 8.06E-04 2.68E-04 1.14E-04 1.14E-05 3.15E-05
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 25.0	1.47E+01 1.45E+01 1.26E+01 1.10E+01 9.13E+00 7.39E+00 5.93E+00 3.14E+00 2.58E+00 1.07E+00 4.98E-01 2.58E-01 1.51E-01 1.01E-01 7.48E-02	1.80E+01 1.77E+01 1.69E+01 1.42E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.32E+00 1.86E+00 6.86E-01 2.98E-01 1.56E-01 9.60E-02 4.68E-02	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 2.66E+00 2.01E+00 1.54E+00 1.19E+00 3.83E-01 1.61E-01 8.44E-02 5.02E-02 2.15E-02	8KEV 2.52E+01 2.38E+01 1.28E+01 1.28E+01 7.85E+00 5.06E+00 3.41E+00 1.66E+00 1.19E+00 8.69E-01 6.43E-01 1.83E-01 7.43E-02 3.68E-02 2.04E-02 8.05E-03	16KEV 2.88E+01 2.59E+01 1.98E+01 1.98E+00 3.32E+00 2.05E+00 1.31E+00 8.57F-01 5.76E-01 3.98E-01 2.83E-01 7.39E-02 2.82E-02 1.32E-02 1.32E-02 1.32E-03 2.69E-03	3.28E+01 2.68E+01 1.72E+01 7.20E+00 3.51E+00 1.84E+00 5.82E-01 2.25E-01 1.50E-01 2.56E-01 2.58E-02 9.44E-03 4.29E-03 4.24E-03 8.00E-04	3.84E+01 2.64E+01 1.37E+01 4.63E+00 8.22E-01 3.99E-01 2.13E-01 7.74E-02 5.12E-02 3.54E-02 8.40E-03 2.94E-03 1.28E-03 6.51E-04 2.24E-04	4.85E+01 2.48E+01 1.03E+01 2.60E+00 8.10E-01 3.06E-01 1.38E-01 7.25E-02 2.62E-02 1.72E-02 1.18E-02 2.61E-03 8.76E-04 1.88E-04 1.88E-04 6.38E-05	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 4.91E-02 2.56E-02 8.90E-03 5.71E-03 3.83E-03 8.06E-04 2.68E-04 1.14E-04 5.68E-05 1.55E-05 1.89E-05
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 30.0 45.0	1.47E+01 1.45E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 5.93E+00 4.77E+00 3.85E+00 3.14E+00 2.58E+00 1.07E+00 4.98E-01 1.51E-01 1.01E-01	1.80E+01 1.77E+01 1.69E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.32E+00 1.86E+00 6.86E-01 2.98E-01 9.60E-02 6.53E-02	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 2.66E+00 2.01E+00 1.54E+00 1.54E+00 1.61E-01 8.44E-02 5.02E-02 3.21E-02 1.51E-02	8KEV 2.52E+01 2.38E+01 1.28E+01 7.85E+00 5.06E+00 3.41E+00 2.36E+00 1.169E-01 6.43E-01 1.83E-01 7.43E-02 2.04E-02 2.04E-02 1.24E-02 5.55E-03	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00 2.05E+00 1.31E+00 8.57F-01 5.76E-01 3.98E-01 2.83E-01 7.39E-02 2.82E-02 1.32E-02 1.32E-03 4.21E-03	3.28E+01 2.68E+01 1.72E+00 3.51E+00 1.81E+00 5.82E-01 3.53E-01 2.25E-01 1.50E-01 2.58E-02 9.44E-03 4.29E-03 2.24E-03 4.29E-03 5.26E-04	3.84E+01 2.64E+01 1.37E+01 1.86E+00 8.22E-01 3.99E-01 2.13E-01 1.24E-01 7.74E-02 5.12E-02 3.54E-02 8.40E-03 2.94E-03 1.28E-03 6.51E-04 3.67E-04	4.85E+01 2.48E+01 1.03E+01 2.60E+00 3.06E-01 1.38E-01 7.25E-02 2.62E-02 1.72E-02 1.18E-02 2.61E-03 8.76E-04 1.88E-04 1.05E-04 1.05E-05 4.10E-05	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 2.56E-02 1.46E-02 8.90E-03 5.71E-03 3.83E-03 8.06E-04 1.14E-04 5.68E-04 1.14E-04 5.68E-05 3.15E-05 1.89E-05
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 25.0	1.47E+01 1.45E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 4.77E+00 3.85E+00 3.14E+00 2.58E+00 1.07E+00 4.98E-01 1.51E-01 7.48E-02 5.87E-02	1.80E+01 1.77E+01 1.69E+01 1.42E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.32E+00 1.86E+01 2.98E+01 1.56E-01 9.60E-02 4.68E-02 3.47E-02	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 2.66E+00 2.01E+00 1.54E+00 1.54E+00 3.83E-01 1.64E-01 8.44E-02 5.02E-02 3.21E-02 2.15E-02 1.1E-02 6.63E-03	8KEV 2.52E+01 2.38E+01 1.28E+01 7.85E+00 5.06E+00 3.41E+00 1.66E+00 1.66E+00 1.19E+01 6.43E-01 1.83E-01 7.43E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-03 3.55E-03 4.02E-03 2.34E-03	16KEV 2.88E+01 2.59E+01 1.98E+01 1.01E+01 5.58E+00 2.05E+00 1.31E+00 8.57E-01 5.76E-01 2.83E-01 2.83E-01 7.39E-02 7.39E-02 7.09E-03 4.21E-03 1.82E-03 1.82E-03	3.28E+01 2.68E+01 1.72E+01 7.20E+00 3.51E+00 1.84E+00 5.82E-01 2.25E-01 1.50E-01 2.56E-01 2.58E-02 9.44E-03 4.29E-03 4.24E-03 8.00E-04	3.84E+01 2.64E+01 1.37E+01 1.86E+00 8.22E-01 3.99E-01 2.13E-01 1.24E-01 7.74E-02 3.54E-02 8.40E-03 2.94E-03 1.28E-03 6.51E-04 3.67E-04 1.45E-04	4.85E+01 2.48E+01 1.03E+01 2.60E+00 8.10E-01 3.06E-01 1.38E-01 7.25E-02 2.62E-02 1.72E-02 1.18E-02 2.61E-03 8.76E-04 1.88E-04 1.88E-04 6.38E-05	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 4.91E-02 2.56E-02 8.90E-03 5.71E-03 3.83E-03 8.06E-04 2.68E-04 1.14E-04 5.68E-05 1.55E-05 1.89E-05
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 15.0 25.0 45.0 45.0 50.0	1.47E+01 1.45E+01 1.26E+01 1.10E+01 9.13E+00 7.39E+00 5.97E+00 3.85E+00 3.14E+00 2.58E+00 1.07E+00 4.98E-01 2.58E-01 1.51E-01 1.01E-01 7.48E-02 5.87E-02 4.77E-02 2.37E-02	1.80E+01 1.77E+01 1.69E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.32E+00 1.86E+00 1.96E-01 2.98E-01 1.96E-02 4.68E-02 3.47E-02 2.64E-02 1.12E-02	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 2.66E+00 2.01E+00 1.54E+00 1.19E+00 3.83E-01 1.61E-01 8.44E-02 5.02E-02 3.21E-02 2.15E-02 1.11E-02 1.11E-03 4.48E-03	8KEV 2.52E+01 2.38E+01 1.28E+01 7.85E+00 3.41E+00 2.36E+00 1.19E+0 6.43E-01 1.83E-01 7.43E-02 3.68E-02 2.04E-02 8.05E-03 5.55E-03 4.02E-03 1.51E-03	16KEV 2.88E+01 2.59E+01 1.98E+01 1.98E+01 5.58E+00 2.05E+00 1.31E+00 8.57E-01 3.98E-01 2.83E-01 7.39E-02 7.09E-03 4.21E-03 2.69E-03 1.82E-03 1.82E-03 1.82E-04 4.29E-04	3.28E+01 2.68E+01 1.72E+00 3.51E+00 1.84E+00 1.84E+01 5.82E-01 2.25E-01 1.50E-01 2.56E-01 2.56E-01 2.56E-03 4.29E-03 4.29E-03 4.29E-03 8.00E-04 5.26E-04 3.62E-04 1.91E-04 1.91E-04 1.91E-04	3.84E+01 2.64E+01 1.37E+01 1.86E+00 8.22E-01 3.99E-01 2.13E-01 7.74E-02 5.12E-02 3.54E-02 8.40E-03 2.94E-03 1.28E-03 1.28E-03 6.51E-04 2.24E-04 9.91E-05 2.98E-05	4.85E+01 2.48E+01 1.03E+01 3.06E-01 3.06E-01 1.38E-02 2.62E-02 1.72E-02 1.18E-02 2.61E-03 8.76E-04 1.88E-04 1.88E-04 1.88E-04 6.38E-05 4.10E-05 2.77E-05 8.02E-06	7.07E+01 2.31E+01 7.47E+00 1.22E+00 1.22E+00 1.08E-01 4.91E-02 2.56E-02 8.90E-03 5.71E-03 3.83E-03 8.06E-04 2.68E-04 1.14E-04 5.68E-05 1.5E-05 1.89E-05 1.89E-05 4.03E-06 2.25E-06
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0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 15.0 25.0 45.0 45.0 50.0	1.47E+01 1.45E+01 1.26E+01 1.10E+01 9.13E+00 7.39E+00 5.97E+00 3.85E+00 3.14E+00 2.58E+00 1.07E+00 4.98E-01 2.58E-01 1.51E-01 1.01E-01 7.48E-02 5.87E-02 4.77E-02 2.37E-02	1.80E+01 1.77E+01 1.69E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.32E+00 1.86E+00 1.96E-01 2.98E-01 1.96E-02 4.68E-02 3.47E-02 2.64E-02 1.12E-02	2.15E+01 2.09E+01 1.92E+01 1.43E+01 9.91E+00 6.86E+00 4.88E+00 2.66E+00 2.01E+00 1.54E+00 1.19E+00 3.83E-01 1.61E-01 8.44E-02 5.02E-02 3.21E-02 2.15E-02 1.11E-02 1.11E-03 4.48E-03	8KEV 2.52E+01 2.38E+01 1.28E+01 7.85E+00 3.41E+00 2.36E+00 1.19E+0 6.43E-01 1.83E-01 7.43E-02 3.68E-02 2.04E-02 8.05E-03 5.55E-03 4.02E-03 1.51E-03	16KEV 2.88E+01 2.59E+01 1.98E+01 1.98E+01 5.58E+00 2.05E+00 1.31E+00 8.57E-01 3.98E-01 2.83E-01 7.39E-02 7.09E-03 4.21E-03 2.69E-03 1.82E-03 1.82E-03 1.82E-04 4.29E-04	3.28E+01 2.68E+01 1.72E+00 3.51E+00 1.84E+00 1.84E+01 5.82E-01 2.25E-01 1.50E-01 2.56E-01 2.56E-01 2.56E-03 4.29E-03 4.29E-03 4.29E-03 8.00E-04 5.26E-04 3.62E-04 1.91E-04 1.91E-04 1.91E-04	3.84E+01 2.64E+01 1.37E+01 1.86E+00 8.22E-01 3.99E-01 2.13E-01 7.74E-02 5.12E-02 3.54E-02 8.40E-03 2.94E-03 1.28E-03 1.28E-03 6.51E-04 2.24E-04 9.91E-05 2.98E-05	4.85E+01 2.48E+01 1.03E+01 3.06E-01 3.06E-01 1.38E-02 2.62E-02 1.72E-02 1.18E-02 2.61E-03 8.76E-04 1.88E-04 1.88E-04 1.88E-04 6.38E-05 4.10E-05 2.77E-05 8.02E-06	7.07E+01 2.31E+01 7.47E+00 1.22E+00 1.22E+00 1.08E-01 4.91E-02 2.56E-02 8.90E-03 5.71E-03 3.83E-03 8.06E-04 2.68E-04 1.14E-04 5.68E-05 1.5E-05 1.89E-05 1.89E-05 4.03E-06 2.25E-06
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0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 25.0 35.0 45.0 60.0 70.0 80.0 10.0	1.47E+01 1.45E+01 1.42E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 5.93E+00 4.77E+00 3.85E+00 1.07E+00 4.98E-01 1.51E-01 1.51E-01 1.01E-01 7.48E-02 2.37E-02 2.37E-02 1.72E-02 1.30E-02 1.30E-02 1.31E-02 1.22E-02 1.56E-02	1.80E+01 1.77E+01 1.69E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.32E+00 1.86E+00 6.86E-01 2.96E-02 4.66E-02 4.66E-02 4.64E-02 1.64E-02 1.64E-03 6.94E-03 6.94E-03 6.07E-03 6.18E-03	2.15E+01 2.09E+01 1.92E+01 9.91E+00 6.86E+00 2.66E+00 2.66E+00 2.66E+00 1.54E+00 1.19E+00 3.83E-01 8.44E-02 3.21E-02 2.15E-02 1.51E-02 1.51E-02 6.63E-03 4.48E-03 3.31E-03 2.63E-03 2.19E-03 1.91E-03 1.91E-03 1.71E-03	8KEV 2.52E+01 2.38E+01 1.28E+01 7.85E+00 5.06E+00 1.66E+00 1.66E+00 1.69E-01 1.83E-01 1.83E-01 1.83E-02 2.04E-02 1.24E-02 8.05E-03 4.02E-03 1.51E-03 7.76E-04 6.01E-04 4.06E-04	16KEV 2.88E+01 2.59E+01 1.98E+01 1.98E+01 5.58E+00 2.05E+00 1.31E+00 8.57E-01 5.76E-01 2.83E-01 2.82E-02 7.09E-03 4.21E-03 1.28E-03 7.05E-04 4.29E-04 2.83E-04 2.82E-04 2.82E-04 2.82E-04 4.29E-04 4.29E-04 4.29E-04 4.29E-04 4.29E-04 4.29E-04 4.29E-04 4.29E-04 4.29E-04 4.29E-04 4.29E-04 4.29E-04 4.29E-04 4.29E-04	3.28E+01 2.68E+01 1.72E+00 3.51E+00 1.84E+00 1.84E+00 1.82E-01 2.25E-01 1.505E-01 2.25E-01 1.05E-01 2.54E-03 4.29E-03 4.29E-03 8.00E-04 1.91E-04 1.91E-04 1.91E-05 2.81E-05 2.81E-05 2.81E-05 2.81E-05 2.81E-05 2.81E-05	3.84E+01 2.64E+01 1.37E+00 1.86E+00 8.22E-01 3.91E-01 1.24E-01 7.74E-02 3.54E-02 8.40E-03 2.94E-03 1.28E-04 3.67E-04 2.24E-04 1.45E-05 5.12E-05 5.13E-05 1.88E-05 1.27E-05 9.03E-06 6.83E-06 5.36E-06	4.85E+01 2.48E+01 1.03E+01 3.06E+01 3.06E-01 1.38E-02 4.20E-02 1.72E-02 2.62E-02 1.72E-02 2.62E-02 1.72E-02 2.62E-02 1.18E-02 2.62E-02 1.18E-02 2.62E-02 1.18E-05 3.75E-04 6.38E-05 4.10E-05 3.28E-06 3.28E-06 1.67E-06 1.28E-06	7.07E+01 2.31E+01 7.47E+00 3.03E-01 1.08E-01 4.91E-02 8.90E-03 3.83E-03 8.06E-04 2.68E-04 1.14E-04 5.68E-05 3.15E-05 1.21E-05 1.21E-05 8.06E-06 4.03E-06 2.25E-06 8.70E-07 5.88E-07 3.05E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 35.0 45.0 60.0 70.0 80.0 70.0 80.0 10.0	1.47E+01 1.45E+01 1.42E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 4.77E+00 3.85E+00 2.58E+00 1.07E+00 4.98E-01 1.51E-01 1.51E-01 1.51E-02 2.37E-02 2.37E-02 1.30E-02 1.30E-02 1.25E-02 2.21E-02 2.11E-02	1.80E+01 1.77E+01 1.69E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.92E+00 1.86E-01 2.96E-01 1.56E-01 2.64E-02 4.64E-02 4.64E-02 4.64E-02 4.64E-02 6.94E-03 6.94E-03 6.94E-03 6.94E-03 6.94E-03 6.94E-03 6.94E-03	2.15E+01 2.09E+01 1.92E+01 9.91E+00 6.86E+00 4.88E+00 3.57E+00 2.66E+00 2.01E+00 1.54E+00 1.19E+00 3.83E-01 1.64E-02 3.21E-02 2.15E-02 1.11E-02 6.63E-03 4.48E-03 3.31E-03 2.63E-03 1.91E-03 1.71E-03 1.58E-03	8KEV 2.52E+01 2.38E+01 7.85E+00 5.04E+00 3.41E+00 2.36E+00 1.66E+00 1.66E+00 1.69E-01 1.83E-01 1.83E-02 2.04E-02 1.24E-02 8.05E-03 4.05E-03 1.05E-03 1.05E-04 4.85E-04 4.85E-04 4.85E-04 4.85E-04 4.85E-04 4.85E-04 3.52E-04	16KEV 2.88E+01 2.59E+01 1.98E+01 1.98E+01 5.58E+00 3.32E+00 2.05E+00 1.31E+00 8.57F-01 5.76E-01 2.83E-01 7.39E-01 7.39E-01 7.39E-01 7.39E-03 4.21E-03 1.26E-03 1.26E-03 7.05E-04 4.29E-04 2.83E-04 1.46E-04 1.46E-05 8.01E-05	3.28E+01 2.68E+01 1.72E+00 3.51E+00 1.84E+00 1.84E+01 5.82E-01 2.25E-01 1.05E-01 2.25E-01 1.05E-01 2.58E-02 3.429E-03 4.29E-03 4.29E-03 8.06E-04 5.26E-04 1.91E-04 1.91E-04 1.91E-05 3.66E-05 2.25E-05 3.66E-05 2.25E-05 3.66E-05 2.25E-05 3.66E-05 2.25E-05 3.66E-05 2.25E-05 3.66E-05 2.25E-05	3.84E+01 2.64E+01 1.37E+00 1.86E+00 8.22E-01 3.93E-01 1.24E-01 7.74E-02 5.12E-02 8.40E-03 2.94E-03 1.28E-04 3.67E-04 2.24E-04 1.45E-05 1.86E-05 1.88E-05 1.88E-05 1.88E-05 1.88E-05 1.88E-05 1.88E-05 1.88E-05 1.88E-06 4.36E-06	4.85E+01 2.48E+01 1.05E+00 8.10E-01 3.06E-01 1.38E-02 4.20E-02 1.72E-02 2.62E-02 1.72E-02 2.61E-03 8.76E-04 1.88E-05 4.10E-05 4.10E-05 8.02E-06 4.96E-06 4.96E-06 1.28E-06 1.02E-06	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 8.90E-03 5.71E-03 3.83E-03 8.06E-04 2.68E-05 3.15E-05 1.89E-05 1.89E-05 1.21E-05 1.21E-06 4.03E-06 4.03E-06 4.03E-06 7.0E-07 5.88E-07 7.15E-07 7.15E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 25.0 40.0 45.0 45.0 60.0 70.0 80.0 10.0	1.47E+01 1.45E+01 1.42E+01 1.10E+01 9.13E+00 7.39E+00 4.77E+00 3.85E+00 3.14E+00 2.58E+01 1.01E-01 1.01E-01 7.48E-02 5.87E-02 4.77E-02 1.72E-02 1.72E-02 1.30E-02 1.31E-02 1.22E-02 1.56E-02 2.11E-02 2.11E-02 2.17E-02	1.80E+01 1.77E+01 1.69E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.92E+00 1.86E+01 1.56E-01 1.56E-02 4.68E-02 2.64E-02 2.64E-02 1.12E-02 8.96E-03 6.94E-03 6.94E-03 6.94E-03 6.94E-03 6.94E-03 6.94E-03 6.94E-03 6.94E-03 6.96E-03 6.96E-03 6.96E-03 6.96E-03 6.96E-03 6.96E-03 6.96E-03 6.96E-03 6.96E-03 6.96E-03 6.96E-03 6.96E-03	2.15E+01 2.09E+01 1.92E+01 1.92E+01 1.93E+00 6.86E+00 4.88E+00 2.01E+00 1.54E+00 1.54E+00 3.83E-01 1.64E-02 3.21E-02 2.15E-02 1.11E-02 6.3E-03 4.48E-03 3.31E-03 2.19E-03 1.71E-03	8KEV 2.52E+01 2.38E+01 1.28E+01 1.28E+00 3.41E+00 2.36E+00 1.66E+00 1.16E+00	16KEV 2.88E+01 2.59E+01 1.98E+01 1.98E+01 5.58E+00 3.32E+00 2.05E+00 1.31E+00 8.57E-01 5.76E-01 2.83E-01 2.83E-01 2.82E-02 7.09E-03 4.21E-02 7.09E-03 1.28E-03 1.28E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-05 7.09E-05 7.09E-05 7.09E-05	3.28E+01 2.68E+01 1.72E+00 3.51E+00 1.84E+00 1.84E+01 5.82E-01 2.25E-01 1.05E-01 2.56E-01 2.56E-01 2.54E-03 4.22E-03 4.22E-03 8.00E-04 5.26E-04 1.13E-04 7.28E-05 3.66E-05 2.25E-05 1.61E-05	3.84E+01 2.64E+01 1.37E+01 1.86E+00 8.22E-01 3.93E-01 2.13E-01 7.74E-02 5.12E-02 3.54E-02 3.54E-02 3.54E-03 1.28E-03 1.28E-04 2.24E-04 9.91E-05 2.98E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-06 3.67E-06	4.85E+01 2.48E+01 1.03E+01 3.06E-01 1.38E-01 4.25E-02 2.62E-02 1.72E-02 2.62E-02 1.18E-02 2.61E-04 3.75E-04 1.88E-04 1.88E-04 1.88E-05 4.10E-05 4.10E-05 3.28E-06 4.96E-06 4.28E-06 1.28E-06 1.28E-06 8.44E-07	7.07E+01 2.31E+01 7.47E+00 1.22E+00 1.08E-01 4.91E-02 2.56E-02 8.90E-03 5.71E-03 3.83E-03 8.06E-04 2.68E-04 1.14E-05 3.15E-05 1.89E-05 1.89E-05 1.89E-06 2.25E-06 1.35E-06 8.70E-07 5.88E-07 4.15E-07 3.05E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 15.0 25.0 35.0 45.0 50.0 45.0 60.0 70.0 80.0 10.0	1.47E+01 1.45E+01 1.42E+01 1.20E+01 1.10E+01 9.13E+00 7.39E+00 5.93E+00 3.14E+00 2.58E+00 1.07E+00 4.98E-01 2.58E-01 1.01E-01 7.48E-02 5.87E-02 3.32E-02 2.37E-02 1.30E-02 1.30E-02 1.13E-02 1.56E-02 2.17E-02 3.44E-02 3.44E-02	1.80E+01 1.77E+01 1.69E+01 1.11E+01 8.38E+00 4.81E+00 3.72E+00 2.32E+00 1.86E+01 1.56E+01 1.56E+01 1.56E+01 1.56E+02 4.68E+02 2.64E-02 4.68E-02 1.64E-02 4.68E-03 6.94E-03 6.94E-03 6.18E-03 6.18E-03 7.25E-03	2.15E+01 2.09E+01 1.92E+01 9.91E+00 6.86E+00 2.66E+00 2.66E+00 2.54E+00 1.54E+00 1.54E+00 1.54E-01 8.44E-02 3.21E-02 2.51E-02 2.15E-02 1.11E-02 6.63E-03 4.48E-03 2.63E-03 2.19E-03 1.71E-03 1.71E-03 1.58E-03 1.58E-03 1.48E-03 1.48E-03 1.48E-03 1.48E-03 1.48E-03	8KEV 2.52E+01 2.38E+01 1.28E+01 7.85E+00 5.04E+00 2.36E+00 1.66E+00 1.69E-01 1.69E-01 1.68E-02 2.04E-02 2.04E-02 1.24E-02 2.04E-03 3.45E-03 4.02E-03 7.76E-04 4.06E-04 3.54E-04 2.88E-04 2.88E-04 2.88E-04	16KEV 2.88E+01 2.59E+01 1.98E+01 1.98E+01 5.58E+00 3.32E+00 1.31E+00 8.57E-01 5.76E-01 2.83E-01 2.83E-01 2.82E-02 7.09E-03 4.21E-03 1.28E-03 1.28E-03 1.28E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-05 6.35E-05 6.35E-05	3.28E+01 2.68E+01 1.72E+00 3.51E+00 1.84E+00 1.84E+01 3.53E-01 2.25E-01 1.05E-01 2.58E-02 4.29E-03 4.29E-03 4.29E-03 4.29E-04 3.62E-04 1.13E-04 7.28E-05 5.81E-05 5.81E-05 1.61E-05 1.61E-05 1.61E-05 1.61E-05 1.61E-05 1.61E-05 1.64E-05	3.84E+01 2.64E+01 1.363E+00 1.86E+00 8.22E-01 3.93E-01 1.24E-01 7.74E-02 5.12E-02 8.40E-03 1.24E-03 1.24E-04 3.51E-04 3.51E-04 3.57E-04 3.57E-04 3.57E-05 5.13E-05 1.27E-05 9.93E-05 1.27E-05 9.03E-06 5.36E-06 4.36E-06 4.36E-06 3.29E-06	4.85E+01 2.48E+01 1.03E+01 3.06E-01 3.06E-01 1.38E-02 4.20E-02 1.72E-02 2.62E-02 1.72E-02 2.62E-02 1.72E-02 2.62E-02 1.72E-02 2.62E-02 1.72E-02 2.77E-04 1.88E-04 1.88E-04 1.88E-04 1.86E-05 2.77E-05 1.41E-05 2.77E-06 3.28E-06 3.28E-06 1.28E-06 1.28E-07 7.30E-07	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 8.90E-03 5.71E-03 3.83E-03 8.06E-04 2.68E-04 1.14E-04 5.68E-05 3.15E-05 1.81E-05 1.21E-05 8.06E-06 4.03E-06 2.25E-06 8.70E-07 2.33E-07 2.33E-07 2.33E-07 1.54E-07
0.0 0.5 1.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 25.0 35.0 45.0 60.0 70.0 80.0 10.0	1.47E+01 1.45E+01 1.42E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 5.93E+00 4.77E+00 3.85E+00 2.58E+00 1.07E+00 4.98E-01 1.51E-01 1.51E-01 1.01E-01 7.48E-02 5.87E-02 4.77E-02 3.32E-02 1.72E-02 1.30E-02 1.30E-02 1.56E-02 2.11E-02 2.77E-02 3.44E-02 4.00E-02	1.80E+01 1.77E+01 1.69E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.32E+00 1.86E+00 1.86E+00 1.960E-01 2.96E-01 2.64E-02 1.64E-02 1.64E-02 1.64E-03 6.94E-03 6.18E-03 6.48E-03 6.48E-03 6.48E-03 7.25E-03 7.57E-03	2.15E+01 2.09E+01 1.92E+01 1.943E+01 9.91E+00 6.86E+00 2.66E+00 2.66E+00 1.54E+00 1.19E+00 3.83E-01 1.64E-02 3.21E-02 2.15E-02 1.51E-02 1.11E-02 6.63E-03 4.48E-03 2.63E-03 2.19E-03 1.71E-03 1.71E-03 1.71E-03 1.58E-03 1.42E-03 1.42E-03 1.42E-03 1.42E-03 1.42E-03 1.42E-03	8KEV 2.52E+01 2.38E+01 1.28E+01 1.85E+00 5.04E+00 2.36E+00 1.66E+00 1.66E+00 1.69E-01 1.83E-02 2.04E-02 1.24E-03 3.48E-03 1.55E-03 2.34E-03 1.55E-04 4.86E-04 3.52E-04 4.86E-04 3.52E-04 4.86E-04 3.52E-04 2.88E-04 2.88E-04 2.71E-04	16KEV 2.88E+01 2.59E+01 1.98E+01 1.98E+01 5.58E+00 3.32E+00 1.31E+00 8.57E-01 5.76E-01 2.83E-01 7.39E-01 2.82E-02 7.09E-03 4.21E-03 1.26E-03 7.05E-04 4.28E-03 7.05E-04 4.28E-04 2.88E-04 2.88E-04 2.88E-05 5.98E-05 5.98E-05 5.98E-05 5.98E-05	3.28E+01 2.68E+01 1.72E+00 3.51E+00 1.84E+00 1.84E+00 1.82E-01 2.25E-01 1.505E-01 2.25E-01 1.05E-01 2.54E-03 4.29E-03 4.29E-03 4.29E-04 1.91E-04 1.91E-05 3.66E-04 1.91E-05 3.66E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05 1.87E-05	3.84E+01 2.64E+01 1.363E+00 1.86E+00 8.22E-01 3.913E-01 1.24E-01 7.74E-02 3.54E-02 8.40E-03 2.94E-03 1.24E-04 3.67E-04 2.24E-04 1.45E-05 5.13E-05 1.88E-05 1.88E-05 1.87E-05 5.36E-06 6.83E-06 6.83E-06 3.72E-06 3.72E-06 3.72E-06	4.85E+01 2.48E+01 1.05E+01 3.06E-01 1.38E-02 4.20E-02 1.78E-02 2.62E-02 1.78E-02 2.62E-02 1.18E-02 2.61E-02 2.51E-04 4.05E-04 4.10E-05 3.75E-04 4.10E-05 3.76E-04 6.38E-05 2.77E-06 4.10E-05 3.28E-06 4.96E-06 4.96E-06 4.96E-06 6.56E-07	7.07E+01 2.31E+01 7.47E+01 3.03E-01 1.08E-01 4.91E-02 8.90E-03 3.83E-03 8.06E-04 2.68E-04 1.14E-04 1.14E-05 1.21E-05 1.21E-05 1.21E-05 1.21E-05 1.21E-05 1.21E-05 1.21E-07 3.52E-07 1.54E-07 1.54E-07 1.54E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 15.0 25.0 35.0 45.0 50.0 45.0 60.0 70.0 80.0 10.0	1.47E+01 1.45E+01 1.42E+01 1.20E+01 1.10E+01 9.13E+00 7.39E+00 5.93E+00 3.14E+00 2.58E+00 1.07E+00 4.98E-01 2.58E-01 1.01E-01 7.48E-02 5.87E-02 3.32E-02 2.37E-02 1.30E-02 1.30E-02 1.13E-02 1.56E-02 2.17E-02 3.44E-02 3.44E-02	1.80E+01 1.77E+01 1.69E+01 1.11E+01 8.38E+00 4.81E+00 3.72E+00 2.32E+00 1.86E+01 1.56E+01 1.56E+01 1.56E+01 1.56E+02 4.68E+02 2.64E-02 4.68E-02 1.64E-02 4.68E-03 6.94E-03 6.94E-03 6.18E-03 6.18E-03 7.25E-03	2.15E+01 2.09E+01 1.92E+01 9.91E+00 6.86E+00 2.66E+00 2.66E+00 2.54E+00 1.54E+00 1.54E+00 1.54E-01 8.44E-02 3.21E-02 2.51E-02 2.15E-02 1.11E-02 6.63E-03 4.48E-03 2.63E-03 2.19E-03 1.71E-03 1.71E-03 1.58E-03 1.58E-03 1.48E-03 1.48E-03 1.48E-03 1.48E-03 1.48E-03	8KEV 2.52E+01 2.38E+01 1.28E+01 7.85E+00 5.04E+00 2.36E+00 1.66E+00 1.69E-01 1.69E-01 1.68E-02 2.04E-02 2.04E-02 1.24E-02 2.04E-03 3.45E-03 4.02E-03 7.76E-04 4.06E-04 3.54E-04 2.88E-04 2.88E-04 2.88E-04	16KEV 2.88E+01 2.59E+01 1.98E+01 1.98E+01 5.58E+00 3.32E+00 1.31E+00 8.57E-01 5.76E-01 2.83E-01 2.83E-01 2.82E-02 7.09E-03 4.21E-03 1.28E-03 1.28E-03 1.28E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-04 2.83E-05 6.35E-05 6.35E-05	3.28E+01 2.68E+01 1.72E+00 3.51E+00 1.84E+00 1.84E+01 3.53E-01 2.25E-01 1.05E-01 2.58E-02 4.29E-03 4.29E-03 4.29E-03 4.29E-04 3.62E-04 1.13E-04 7.28E-05 5.81E-05 5.81E-05 1.61E-05 1.61E-05 1.61E-05 1.61E-05 1.61E-05 1.61E-05 1.64E-05	3.84E+01 2.64E+01 1.363E+00 1.86E+00 8.22E-01 3.93E-01 1.24E-01 7.74E-02 5.12E-02 8.40E-03 1.24E-03 1.24E-04 3.51E-04 3.51E-04 3.57E-04 3.57E-04 3.57E-05 5.13E-05 1.27E-05 9.93E-05 1.27E-05 9.03E-06 5.36E-06 4.36E-06 4.36E-06 3.29E-06	4.85E+01 2.48E+01 1.03E+01 3.06E-01 3.06E-01 1.38E-02 4.20E-02 1.72E-02 2.62E-02 1.72E-02 2.62E-02 1.72E-02 2.62E-02 1.72E-02 2.62E-02 1.72E-02 2.77E-04 1.88E-04 1.88E-04 1.88E-04 1.86E-05 2.77E-05 1.41E-05 2.77E-06 3.28E-06 3.28E-06 1.28E-06 1.28E-07 7.30E-07	7.07E+01 2.31E+01 7.47E+00 1.22E+00 3.03E-01 1.08E-01 4.91E-02 8.90E-03 5.71E-03 3.83E-03 8.06E-04 2.68E-04 1.14E-04 5.68E-05 3.15E-05 1.81E-05 1.21E-05 8.06E-06 4.03E-06 2.25E-06 8.70E-07 2.33E-07 2.33E-07 2.33E-07 1.54E-07
0.0 0.5 1.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 35.0 45.0 60.0 70.0 80.0 10.0	1.47E+01 1.45E+01 1.42E+01 1.28E+01 1.10E+01 9.13E+00 7.39E+00 3.85E+00 3.14E+00 2.58E+01 1.51E-01 1.51E-01 1.51E-02 2.37E-02 1.72E-02 1.30E-02 1.13E-02 1.51E-02 2.57E-02 2.57E-02 2.57E-02 2.57E-02 2.57E-02 2.57E-02 2.77E-02	1.80E+01 1.77E+01 1.69E+01 1.11E+01 8.38E+00 6.31E+00 3.72E+00 2.92E+00 2.92E+00 1.86E-01 1.56E-01 1.56E-02 4.687E-02 4.687E-02 4.687E-02 4.687E-02 4.687E-02 4.687E-02 4.687E-02 4.687E-03 6.94E-03 6.94E-03 6.94E-03 6.94E-03 7.57E-03 7.57E-03 7.57E-03	2.15E+01 2.09E+01 1.92E+01 9.91E+00 6.86E+00 4.85E+00 2.66E+00 2.66E+00 1.54E+00 1.54E+00 3.57E+00 3.63E-01 1.64E-02 3.21E-02 2.15E-02 2.15E-02 2.15E-02 1.16E-03 4.48E-03 3.363E-03 1.71E-03	8KEV 2.52E+01 2.38E+01 7.85E+00 5.04E+00 3.41E+00 2.36E+00 1.66E+00 1.66E+00 1.69E-01 1.83E-02 2.04E-02 1.24E-02 8.05E-02 2.04E-02 1.24E-03 1.24E-03 1.24E-03 1.24E-03 1.24E-03 1.24E-04 2.36E-04 2.36E-04 2.34E-04	16KEV 2.88E+01 2.59E+01 1.98E+01 1.98E+01 5.58E+00 3.32E+00 1.31E+00 8.57F-01 5.76E-01 7.8E-01 7.8E-01 7.82E-02 7.09E-03 4.21E-03 1.26E-03 1.26E-03 7.05E-04 4.29E-04 1.46E-05 7.05E-05 6.35E-05 5.68E-05	3.28E+01 2.68E+01 1.72E+00 3.51E+00 1.84E+00 1.84E+00 1.84E+01 2.25E-01 1.05E-01 2.25E-01 1.05E-01 2.25E-01 2.25E-01 2.25E-01 2.25E-01 3.53E-01 2.25E-01 3.53E-01 2.25E-01 3.53E-01 3.53E-01 3.53E-01 3.53E-01 3.53E-01 3.53E-01 3.53E-01 3.53E-01 3.53E-01 3.53E-01 3.53E-01 3.53E-01 3.53E-05 3.63E-05 3.63E-05 3.66E-05 3.66E-05 3.63E-	3.84E+01 2.64E+01 1.373E+00 1.86E+00 8.22E-01 3.93E-01 1.24E-01 7.74E-02 5.12E-02 8.40E-03 1.24E-02 8.40E-03 1.24E-04 3.67E-04 2.45E-05 1.45E-06 1.45E	4.85E+01 2.48E+01 1.05E+01 3.06E-01 1.35E-02 4.20E-02 1.72E-02 2.62E-02 1.72E-02 2.62E-02 1.72E-02 2.61E-03 8.765E-04 1.05E-04 6.38E-05 4.10E-05 8.76E-04 6.36E-05 4.10E-05 8.28E-06 4.92E-06 4.92E-06 8.44E-07 7.30E-07 6.56E-07 6.17E-07	7.07E+01 2.31E+01 7.47E+00 3.03E-01 1.08E-01 4.91E-02 8.90E-03 5.71E-03 3.83E-03 8.06E-04 2.68E-04 1.14E-05 3.15E-05 1.89E-05 1.89E-05 1.89E-05 1.89E-06 4.03E-06 4.03E-06 7.0E-07 7.35E-07 7.35E-07 7.35E-07 7.34E-07 1.34E-07

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

				KDA D I U	N, Z=36				
ANGLE	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
0.0	1.95E+01	2.43E+01	2.95E+01	3.49E+01	4.06E+01	4.69E+01	5.55E+01	7.07E+01	1.04E+02
0.5	1.94E+01	2.41E+01	2.90E+01	3.39E+01	3.82E+01	4.17E+01	4.41E+01	4.47E+01	4.19E+01
1.0 2.0	1.92E+01	2.35E+01 2.12E+01	2.76E+01	3.09E+01	3.21E+01	3.03E+01	2.48E+01	1.70E+01	9.95E+00
3.0	1.81E+01 1.65E+01	1.79E+01	2.29E+01 1.71E+01	2.20E+01 1.36E+01	1.79E+01 8.68E+00	1.17E+01 4.54E+00	6.29E+00 2.17E+00	3.10E+00 1.03E+00	1.57E+00 4.47E-01
4.0	1.45E+01	1.44E+01	1.20E+01	7.97E+00	4.33E+00	2.11E+00	9.94E-01	4.32E-01	1.63E-01
5.0	1.24E+01	1.11E+01	8.04E+00	4.69E+00	2.385+00	1.15E+00	5.21E-01	2.04E-01	7.24E-02
6.0	1.04E+01	8.32E+00	5.35E+00	2.89E+00	1.45E+00	6.92E-01	2.95E-01	1.07E-01	3.73E-02
7.0	8.45E+00	5.12E+00	3.60E+00	1.89E+00	9.46E-01	4.41E-01	1.76E-01	6.16E-02	2.13E-02
8.0 9.0	6.78E+00 5.37E+00	4.48E+00 3.29E+00	2.49E+00 1.79E+00	1.30E+00 9.35E-01	6.50E-01 4.62E-01	2.92E-01 2.01E-01	1.11E-01 7.37E-02	3.81E-02 2.49E-02	1.31E-02 8.50E-03
10.0	4.23E+00	2.45E+00	1.32E+00	6.95E-01	3.37E-01	1.42E-01	5.08E-02	1.71E-02	5.75E-03
15.0	1.35E+00	7.60E-01	4-17E-01	2.09E-01	9.37E-02	3.58E-02	1.21E-02	3.90E-03	1.24E-03
20.0	5.87E-01	3.37E-01	1.76E-01	8.63E-02	3.71E-02	1.33E-02	4.30E-03	1.345-03	4-15E-04
25.0 30.0	3.21E+01 1.91E-01	1.74E-01 1.01E-01	9.04E-02 5.42E-02	4.43E-02 2.58E-02	1.79E-02 9.77E-03	6.08E-03 3.22E-03	1.92E-03 9.88E-04	5.80E-04 2.93E-04	1.78E-04 8.92E-05
35.0	1.19E-01	6.56E-02	3.60E~02	1.62E-02	5.83E-03	1.88E-03	5.65E-04	1.65E-04	4.99E-05
40.0	8.01E-02	4.68E-02	2.53E-02	1.07E-02	3.75E-03	1.19E-03	3.48E-04	1.00E-04	3.02E-05
45.0	5.79E-02	3.55E-02	1.84E-02	7.46E-03	2.56E-03	7.92E-04	2.27E-04	6.50E-05	1.94E-05
50.0	4.50E-02	2.79E-02	1.38E-02	5.41E-03	1.83E-03	5.52E-04	1.56E-04	4.41E-05	1.30E-05
60.0	3.16E-02	1.84E-02	8.50E-03	3.18E-03	1.03E-03	2.98E-04	8.16E-05	2.27E-05	6.59E-05
70.0	2.47E-02	1.29E-02	5.78E-03	2.09E-03	6.49E-04	1.79E-04	4.77E-05	1.30E-05	3.70E-06
80.0	1.95E-02	9.62E-03	4.31E-03	1.50E-03	4.39E-04	1.16E-04	3.04E-05	8.11E-06	2.25E-06
90.0	1.45E-02	7.81E-03	3.49E-03	1.15E-03	3.16E-04	8.09E-05	2.07E-05	5.40E-06	1.45E-06
100.0	1.01E-02	7.13E-03	3.02E-03	9.22E-04	2.40E-04	5.96E-05	1.49E-05	3.78E-06	9.83E-07
110.0	8-32E-03	7.35E-03	2.76E-03	7.72E-04	1.90E-04	4.61E-05	1.13E-05	2.77E-06	6.97E-07
120.0	1.12E-02	8.25E-03	2.62E-03	6.69E-04	1.57E-04	3.72E-05	8.89E-06	2.13E-06	5.11E-07
130.0	2.05E-02	9.63E-03	2.56E-03	5.96E-04	1.35E-04	3.12E-05	7.29E-06	1.70E-06	3.90E-87
140.0	3.60E-02	1.12E-02	2.55E-03	5.45E-04	1.19E-04	2.71E-05	6.22E-06	1.41E-06	3.10E-07
150.0	5.53E-02	1.27E-02	2.56E-03	5-10E-04	1.09E-04	2.44E-05	5.51E-06	1.22E-06	2.57E-07
160.0 170.0	7.43E-92 8.83E-02	1.40E-02 1.48E-02	2.57E-03 2.58E-03	4.87E-04 4.74E-04	1.02E-04 9.80E-05	2.26E-05 2.16E-05	5.04E-06 4.78E-06	1.09E-06 1.03E-06	2.22E-07 2.05E-07
180.0	9.34E-02	1.516-02	2.59E-03	4.70E-04	9.68E-05	2.13E-05	4.72E-06	1.03E-06	2.00E-07
TOTAL	1.87E+00	1.29E+00	8.59E-01	5.53E-01	3.42E-01	2.05E-01	1.22E-01	7.478-02	4.97E-02
TRANS	3.91E-01	1.60E-01	5.98E-02	2.09E-02	6.94E-03	2.21E-03	6.90E-04	2.17E-04	7.06E-05
					ENUM, Z =42				
ANGLE	1KEV	2KEV	4KEV	BKEV	ENUM, Z=42 16KEV	32KEV	64KEV	128KEV	256KEV
0.0	4.45E+81	2KEV 5•49E+01	6.59E+01	8KEV 7.73E+01	ENUM. Z=42 16KEV 8.92E+01	32KEV 1.03E+02	64KEV 1.22E+02	1.56E+02	2.28E+02
0 • 0 0 • 5	4.45E+01 4.40E+01	2KEV 5.49E+01 5.38E+01	6.59E+01 6.36E+01	8KEV 7.73E+01 7.22E+01	ENUM. Z=42 16KEV 8.92E+01 7.83E+01	32KEV 1.03E+02 8.05E+01	64KEV 1.22E+02 7.75E+01	1.56E+02 6.94E+01	2.28E+02 5.84E+01
0.0 0.5 1.0	4.45E+01 4.40E+01 4.26E+01	2KEV 5.49E+01 5.38E+01 5.08E+01	6.59E+01 6.36E+01 5.72E+01	8KEV 7.73E+01 7.22E+01 5.97E+01	ENUM. Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01	32KEV 1.03E+02 8.05E+01 4.69E+01	64KEV 1.22E+02 7.75E+01 3.46E+01	1.56E+02 6.94E+01 2.30E+01	2.28E+02 5.84E+01 1.38E+01
0.0 0.5 1.0 2.0	4.45E+01 4.40E+01 4.26E+01 3.78E+01	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01	6.59E+01 6.36E+01	8KEV 7.73E+01 7.22E+01	ENUM. Z=42 16KEV 8.92E+01 7.83E+01	32KEV 1.03E+02 8.05E+01	64KEV 1.22E+02 7.75E+01	1.56E+02 6.94E+01	2.28E+02 5.84E+01
0.0 0.5 1.0	4.45E+01 4.40E+01 4.26E+01	2KEV 5.49E+01 5.38E+01 5.08E+01	6.59E+01 6.36E+01 5.72E+01 3.98E+01	8KEV 7.73E+01 7.22E+01 5.97E+01 3.36E+01	ENUM. Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+01	64KEV 1.22E+02 7.75E+01 3.46E+01 8.54E+00	1.56E+02 6.94E+01 2.30E+01 4.12E+00	2.28E+02 5.84E+01 1.38E+01 1.89E+00
0.0 0.5 1.0 2.0 3.0	4.45E+01 4.40E+01 4.26E+01 3.78E+01 3.14E+01	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01 3.03E+01	6.59E+01 6.36E+01 5.72E+01 3.98E+01 2.52E+01	8KEV 7.73E+01 7.22E+01 5.97E+01 3.36E+01 1.81E+01	ENUM. Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01 1.12E+01 5.65E+00 3.07E+00	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+01 6.04E+00 1.40E+00	64KEV 1.22E+02 7.75E+01 3.46E+01 8.54E+00 2.81E+00 1.19E+00 6.09E-01	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 2.55E-01	2.28E+02 5.84E+01 1.38E+01 1.89E+00 5.51E-01 2.12E-01 9.61E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0	4.45E+01 4.40E+01 4.26E+01 3.78E+01 3.14E+01 2.49E+01 1.92E+01	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01 3.03E+01 2.14E+01 1.50E+01	6.59E+01 6.36E+01 5.72E+01 3.98E+01 2.52E+01 1.58E+01 1.01E+01 6.66E+00	8KEV 7.73E+01 7.22E+01 5.97E+01 3.36E+01 1.81E+01 1.01E+01 5.98E+00 3.68E+00	ENUM. Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01 1.12E+01 3.07E+00 1.79E+00	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+01 6.04E+00 2.72E+00 1.40E+00 8.08E-01	64KEV 1.22E+82 7.75E+01 3.46E+01 8.54E+00 2.81E+00 1.19E+00 6.09E-01 3.49E+01	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 2.55E-01 1.38E-01	2.28E+02 5.84E+01 1.38E+01 1.89E+00 5.51E-01 2.12E-01 9.61E-02 4.94E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	4.45E+01 4.40E+01 4.26E+01 3.78E+01 3.14E+01 2.49E+01 1.92E+01 1.46E+01 1.11E+01	2KEV 5.49E+01 5.38E+01 5.38E+01 5.1E+01 3.03E+01 2.14E+01 1.50E+01 7.54E+00	6.59E+01 6.36E+01 5.72E+01 3.98E+01 2.52E+01 1.58E+01 1.01E+01 6.66E+00 4.50E+00	8KEV 7.73E+01 7.22E+01 5.97E+01 3.36E+01 1.81E+01 1.01E+01 5.98E+00 2.37E+00	ENUM, Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01 1.12E+01 5.65E+00 3.07E+00 1.79E+00 1.13E+00	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+01 6.04E+00 2.72E+00 1.40E+00 8.08E-01 5.07E-01	64KEV 1.22E+02 7.75E+01 3.46E+01 8.54E+00 2.81E+00 1.19E+00 6.09E-01 3.49E+01 2.14E-01	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 2.55E-01 1.38E-01 8.04E-02	2.28E+02 5.84E+01 1.38E+01 1.89E+00 5.51E-01 2.12E-01 9.61E-02 4.94E-02 2.81E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	4.45E+01 4.40E+01 4.26E+01 3.78E+01 3.14E+01 2.49E+01 1.46E+01 1.11E+01 8.45E+00	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01 3.03E+01 2.14E+01 1.50E+01 1.06E+01 7.54E+00 5.47E+00	6.59E+01 6.36E+01 5.72E+01 3.98E+01 2.52E+01 1.58E+01 1.01E+01 6.66E+00 3.11E+00	8KEV 7.73E+01 7.22E+01 5.97E+01 3.36E+01 1.81E+01 1.01E+01 5.98E+00 3.68E+00 2.37E+00 1.59E+00	ENUM, Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01 1.12E+01 5.65E+00 3.07E+00 1.79E+00 7.54E-01	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+01 6.04E+00 2.72E+00 1.40E+00 8.08E+01 5.07E+01 3.37E-01	64KEV 1.22E+02 7.75E+01 3.46E+01 8.54E+00 2.81E+00 1.19E+00 6.09E-01 3.49E-01 2.14E-01 1.38E-01	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 2.55E-01 1.38E-01 4.99E-02	2.28E+02 5.84E+01 1.38E+01 1.89E+00 5.51E-01 2.12E-01 9.61E-02 4.94E-02 2.73E-02
0.0 0.5 1.0 2.0 4.0 5.0 7.0 8.0	4.45E+01 4.40E+01 4.26E+01 3.78E+01 3.14E+01 2.49E+01 1.92E+01 1.11E+01 8.45E+00 6.49E+00	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01 2.14E+01 1.50E+01 7.54E+00 4.02E+00	6.59E+01 6.36E+01 5.72E+01 3.98E+01 2.52E+01 1.58E+01 1.01E+01 6.66E+00 4.50E+00 3.11E+00 2.21E+00	8KEV 7.73E+01 7.22E+01 5.97E+01 5.97E+01 1.81E+01 1.01E+01 5.98E+00 3.68E+00 2.37E+00 1.59E+00 1.12E+00	ENUM. Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01 1.12E+01 5.65E+00 3.07E+00 1.79E+00 1.13E+00 5.29E-01	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+00 2.72E+00 1.40E+00 8.08E-01 5.07E-01 2.34E-01	64KEV 1.22E+02 7.75E+01 3.46E+01 8.54E+00 1.19E+00 6.09E-01 3.49E-01 2.14E-01 9.26E-02	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 2.55E-01 1.38E-01 8.04E-02 4.99E-02 3.27E-02	2.28E+02 5.84E+01 1.38E+01 1.89E+00 5.51E-01 2.12E-01 9.61E-02 4.94E-02 2.81E-02 1.12E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	4.45E+01 4.40E+01 4.26E+01 3.78E+01 3.14E+01 2.49E+01 1.46E+01 1.11E+01 8.45E+00	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01 3.03E+01 2.14E+01 1.50E+01 1.06E+01 7.54E+00 5.47E+00	6.59E+01 6.36E+01 5.72E+01 3.98E+01 2.52E+01 1.58E+01 1.01E+01 6.66E+00 3.11E+00	8KEV 7.73E+01 7.22E+01 5.97E+01 3.36E+01 1.81E+01 1.01E+01 5.98E+00 3.68E+00 2.37E+00 1.59E+00	ENUM, Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01 1.12E+01 5.65E+00 3.07E+00 1.79E+00 7.54E-01	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+01 6.04E+00 2.72E+00 1.40E+00 8.08E+01 5.07E+01 3.37E-01	64KEV 1.22E+02 7.75E+01 3.46E+01 8.54E+00 2.81E+00 1.19E+00 6.09E-01 3.49E-01 2.14E-01 1.38E-01	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 2.55E-01 1.38E-01 4.99E-02	2.28E+02 5.84E+01 1.38E+01 1.89E+00 5.51E-01 2.12E-01 9.61E-02 4.94E-02 2.73E-02
0.0 0.5 1.0 2.0 4.0 5.0 7.0 8.0	4.45E+01 4.40E+01 4.26E+01 3.78E+01 3.14E+01 2.49E+01 1.46E+01 1.11E+01 8.45E+00 6.49E+00 5.03E+00	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01 3.03E+01 1.50E+01 1.50E+01 1.50E+00 5.47E+00 4.02E+00 3.01E+00	6.59E+01 6.36E+01 5.72E+01 3.98E+01 2.52E+01 1.58E+01 1.01E+01 6.66E+00 4.50E+00 3.11E+00 2.21E+00 1.61E+00	8KEV 7.73E+01 7.22E+01 5.97E+01 3.36E+01 1.81E+01 1.01E+01 5.98E+00 2.37E+00 1.59E+00 1.12E+00 8.13E-01	ENUM, Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01 1.12E+01 5.65E+00 3.07E+00 1.79E+00 1.79E+00 7.54E-01 5.29E-01 3.84E-01	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+01 6.04E+00 2.72E+00 1.40E+01 5.07E-01 3.37E-01 2.34E-01 1.67E-01 4.38E-02	64KEV 1.22E+02 7.75E+01 3.46E+01 8.54E+00 2.81E+00 1.19E+00 6.09E-01 3.49E-01 2.14E-01 1.38E-01 9.26E-02 6.44E-02	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 2.55E-01 1.38E-01 1.38E-02 4.99E-02 3.27E-02 2.23E-02	2.28E+02 5.84E+01 1.38E+01 1.89E+00 5.51E-01 2.12E-01 9.61E-02 4.94E-02 21.73E-02 1.12E-02 7.60E-03
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	4.45E+01 4.40E+01 4.26E+01 3.78E+01 3.14E+01 2.49E+01 1.92E+01 1.11E+01 8.45E+00 6.49E+00 5.03E+00	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01 2.14E+01 1.50E+01 1.06E+01 7.54E+00 5.47E+00 4.02E+00 3.01E+00	6.59E+01 6.36E+01 5.72E+01 3.98E+01 1.58E+01 1.58E+01 1.66E+00 4.50E+00 3.11E+00 2.21E+00 1.61E+00	8KEV 7.73E+01 7.22E+01 5.97E+01 5.97E+01 1.81E+01 1.01E+01 5.98E+00 3.68E+00 2.37E+00 1.59E+00 1.12E+00 8.13E-01 2.41E-01 9.76E-02	ENUM. Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01 1.12E+01 5.65E+00 3.07E+00 1.79E+00 1.13E+00 7.54E-01 3.84E-01	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+00 2.72E+00 1.40E+00 8.08E-01 5.07E-01 3.37E-01 2.34E-01 1.67E-01 4.38E-02 1.67E-02	64KEV 1.22E+02 7.75E+01 3.46E+01 8.54E+00 1.19E+00 6.09E-01 3.49E-01 2.14E-01 1.38E-01 9.26E-02 6.44E-02	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 2.55E-01 1.38E-01 4.99E-02 3.27E-02 2.23E-02	2.28E+02 5.84E+01 1.38E+01 1.89E+00 5.51E-01 2.12E-01 9.61E-02 4.94E-02 1.73E-02 1.12E-02 7.60E-03 1.68E-03 5.66E-04
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0	4.45E+01 4.40E+01 4.26E+01 3.78E+01 3.14E+01 2.49E+01 1.92E+01 1.16E+01 0.49E+00 5.03E+00	2KEV 5.49E+01 5.38E+01 5.38E+01 4.11E+01 3.03E+01 1.50E+01 1.50E+01 7.54E+00 5.47E+00 4.02E+00 3.01E+00 8.94E-01 3.96E-01 2.15E-01	6.59E+01 6.36E+01 5.72E+01 3.98E+01 2.52E+01 1.58E+01 1.01E+01 6.66E+00 4.50E+00 3.11E+00 2.21E+00 1.61E+00 4.86E-01 2.10E-01	8KEV 7.73E+01 7.22E+01 5.97E+01 3.36E+01 1.01E+01 5.98E+00 3.68E+00 2.37E+00 1.59E+00 1.12E+00 8.13E-01 2.41E-01 9.76E-02 4.91E-02	ENUM. Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01 1.12E+01 5.65E+00 3.07E+00 1.13E+00 1.13E+01 5.29E-01 3.84E-01	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+01 1.55E+00 1.40E+00 8.08E-01 5.07E-01 2.34E-01 1.67E-01 4.38E-02 7.75E-03	64KEV 1.22E+02 7.75E+01 3.46E+01 8.54E+00 1.19E+00 6.09E-01 3.49E-01 2.14E-01 9.26E-02 6.44E-02 1.55E-02 2.55E-03 2.51E-03	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+01 2.55E-01 1.38E-01 8.04E-02 3.27E-02 2.23E-02 5.13E-03 1.78E-03 7.84E-04	2.28E+02 5.84E+01 1.38E+01 1.89E+00 5.51E-01 2.12E-01 9.61E-02 4.94E-02 2.81E-02 7.60E-03 1.66E-04 2.44E-04
0.0 0.5 1.0 2.0 3.0 5.0 6.0 7.0 8.0 9.0 10.0 20.0	4.45E+01 4.40E+01 3.78E+01 3.78E+01 3.14E+01 2.49E+01 1.46E+01 1.11E+01 8.45E+00 6.49E+00 5.03E+00 1.62E+00 3.71E-01 2.37E-01	2KEV 5.49E+01 5.38E+01 5.08E+01 3.03E+01 2.14E+01 1.50EE+01 7.54E+00 5.47E+00 4.02E+00 3.01E+00 8.94E-01 3.96E-01 2.15E-01 1.26E-01	6.59E+01 6.36E+01 5.72E+01 3.98E+01 1.58E+01 1.01E+01 6.66E+00 4.50E+00 3.11E+00 2.21E+00 4.86E-01 2.10E-01 1.06E-01 6.06E-02	8KEV 7.73E+01 7.22E+01 5.97E+01 3.36E+01 1.81E+01 1.01E+01 5.98E+00 3.68E+00 2.37E+00 1.12E+00 8.13E-01 2.41E-01 9.76E-02 2.88E-02	ENUM, Z=42 16KEY 8-92E+01 7-83E+01 5-63E+01 1-12E+01 5-65E+00 3-07E+00 1-73E+00 7-54E-01 3-84E-01 1-08E-01 4-31E-02 1-20E-02	32KEV 1.03E+02 8.05E+01 4.65E+01 1.55E+01 6.04E+00 2.72E+00 1.40E+00 3.37E-01 3.37E-01 2.34E-01 4.38E-02 1.67E-02 1.67E-03 4.13E-03	64KEV 1.22E+02 7.75E+01 3.46E+00 2.81E+00 1.19E+00 6.09E+01 2.14E-01 1.38E-01 9.26E-02 1.55E-02 2.51E-03 1.31E-03	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 2.55E-01 1.38E-01 8.04E-02 4.99E-02 3.27E-02 2.23E-02 5.13E-03 1.78E-03 7.84E-04 4.00E-04	2.28E+02 5.84E+01 1.38E+01 1.89E+00 5.51E-01 2.12E-01 9.61E-02 2.81E-02 1.73E-02 1.12E-03 1.68E-03 5.66E-03 5.66E-04 1.23E-04
0.0 0.5 1.0 2.0 3.0 5.0 7.0 8.0 9.0 10.0 15.0 25.0 25.0	4.45E+01 4.40E+01 4.26E+01 3.78E+01 3.14E+01 2.49E+01 1.46E+01 1.11E+01 8.45E+00 6.49E+00 5.03E+00 1.62E+00 6.78E-01 3.71E-01 1.37E-01 1.59E-01	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01 3.03E+01 1.50E+01 1.06E+01 1.05E+00 5.47E+00 4.02E+00 3.01E+00 8.94E-01 3.96E-01 7.96E-01 7.96E-02	6.59E+01 6.36E+01 5.72E+01 1.98E+01 1.58E+01 1.01E+01 6.66E+00 4.50E+00 3.11E+00 2.21E+00 1.61E+00 4.86E-01 2.10E-01 6.06E-02 3.90E-02	8KEV 7.73E+01 7.22E+01 5.97E+01 3.36E+01 1.81E+01 5.98E+00 2.37E+00 1.59E+00 1.59E+00 1.59E+00 1.59E+01 2.41E-01 9.76E-02 4.91E-02 1.85E-02	ENUM, Z=42 16KEY 8.92E+01 7.83E+01 5.63E+01 5.65E+00 3.07E+00 1.79E+00 1.79E+01 5.29E-01 3.84E-01 1.08E-01 4.31E-02 1.26E-02 7.28E-03	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+01 6.04E+00 2.72E+00 1.40E+00 8.08E-01 3.37E-01 2.34E-01 1.67E-01 4.38E-02 7.75E-03 4.13E-03 2.43E-03	64KEV 1.22E+02 7.75E+01 3.46E+01 8.54E+00 2.81E+00 1.19E+00 6.09E-01 3.49E-01 1.38E-01 9.26E-02 6.44E-02 1.55E-02 5.58E-03 2.51E-03 7.57E-04	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 2.55E-01 1.38E-01 1.38E-02 4.99E-02 3.27E-02 2.23E-02 5.13E-03 1.78E-03 7.84E-04 4.00E-04 2.27E-04	2.28E+02 5.84E+01 1.38E+01 1.89E+00 5.51E-01 2.12E-01 9.61E-02 4.94E-02 1.73E-02 1.12E-02 7.60E-03 1.66E-03 5.66E-04 2.44E-04 6.94E-05
0.0 0.5 1.0 2.0 3.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 30.0 40.0	4.45E+01 4.40E+01 4.26E+01 3.78E+01 3.14E+01 2.49E+01 1.92E+01 1.11E+01 8.45E+00 6.49E+00 5.03E+00 1.62E+00 6.78E-01 3.71E-01 2.37E-01 1.09E-01	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01 2.14E+01 1.50E+01 1.50E+01 1.50E+00 3.01E+00 3.01E+00 3.96E-01 2.15E-01 1.26E-02 5.40E-02	6.59E+01 6.36E+01 5.72E+01 1.98E+01 1.58E+01 1.01E+01 6.66E+00 3.11E+00 2.21E+00 1.61E+00 4.86E-01 2.10E-01 1.06E-01 6.06E-02 2.90E-02 2.73E-02	8KEV 7.73E+01 7.22E+01 3.36E+01 1.81E+01 1.01E+01 5.98E+00 2.37E+00 1.59E+00 1.12E+00 8.13E-01 2.41E-01 9.76E-02 4.91E-02 2.88E-02 1.85E-02 1.26E-02	ENUM. Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01 1.12E+01 5.65E+00 3.07E+00 1.79E+00 1.79E+01 5.29E-01 3.84E-01 1.08E-01 4.31E-02 2.14E-02 1.20E-03 4.71E-03	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+00 2.72E+00 1.40E+00 8.08E+01 3.37E-01 2.34E-01 1.67E-01 4.38E-02 7.75E-03 4.13E-03 1.54E-03	64KEV 1.22E+02 7.75E+01 3.46E+01 2.81E+00 1.19E+00 6.09E-01 3.49E-01 1.38E-01 9.26E-02 6.44E-02 1.55E-03 2.51E-03 1.31E-03 4.71E-04	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 2.55E-01 1.38E-02 4.99E-02 3.27E-02 2.23E-02 5.13E-03 1.78E-03 7.84E-04 4.00E-04 4.00E-04 1.39E-04	2.28E+02 5.84E+01 1.38E+01 1.89E+00 5.51E-01 2.12E-01 9.61E-02 4.94E-02 1.73E-02 7.60E-03 1.68E-03 5.66E-04 2.44E-04 1.23E-05 4.23E-05
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0.0 0.5 1.0 3.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 25.0 45.0 45.0 70.	4.45E+01 4.40E+01 3.78E+01 3.78E+01 3.14E+01 2.49E+01 1.46E+01 1.11E+01 8.45E+00 6.49E+00 5.03E+00 1.62E+00 6.78E-01 3.71E-01 1.37E-01 1.09E-01 7.67E-02 3.53E-02 2.71E-02	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01 2.14E+01 1.06E+01 1.56E+01 7.54E+00 4.02E+00 3.01E+00 8.96E-01 1.26E-01 1.26E-02 3.93E-02 3.03E-02 3.03E-02 1.42E-02	6.59E+01 6.36E+01 5.72E+01 1.98E+01 1.58E+01 1.58E+01 6.66E+00 4.50E+00 3.11E+00 2.21E+00 1.61E+00 4.86E-01 2.10E-01 1.06E-01 6.06E-02 2.73E-02 2.73E-02 2.53E-02 2.53E-03 6.65E-03	8KEV 7.73E+81 7.22E+01 5.97E+01 3.36E+01 1.01E+01 5.98E+00 3.68E+00 2.37E+00 1.52E+00 8.13E-01 2.41E-01 9.76E-02 4.91E-02 2.88E-02 1.85E-02 1.85E-02 1.26E-02 8.93E-03 6.57E-03 2.60E-03	ENUM. Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01 1.12E+01 5.65E+00 3.07E+00 1.79E+00 1.79E+00 1.79E+01 3.84E-01 1.08E-01 4.31E-02 2.14E-02 1.20E-03 4.71E-03 3.22E-03 4.71E-03	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+01 1.55E+00 2.72E+00 1.40E+00 8.08E+01 3.37E-01 2.34E-01 1.67E-01 4.38E-02 7.75E-03 4.13E-03 1.54E-03 1.54E-03 1.54E-04 2.46E-04	64KEV 1.22E+02 7.75E+01 3.46E+01 2.81E+00 1.19E+00 6.09E-01 3.49E-01 1.38E-01 9.26E-02 1.55E-03 2.55E-03 1.31E-03 1.31E-04 4.71E-04 3.10E-04 4.14E-04 6.72E-05	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 1.38E-01 1.38E-02 4.99E-02 3.27E-02 2.23E-02 5.13E-03 1.78E-03 7.84E-04 4.00E-04 1.39E-04 9.06E-05 6.19E-05 1.86E-05	2.28E+02 5.84E+01 1.38E+01 1.89E+001 5.51E-01 2.12E-02 4.94E-02 2.73E-02 1.12E-03 1.66E-04 1.23E-05 4.24E-05 4.23E-05 4.23E-05 4.23E-05 5.66E-06 5.73E-05 6.66E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06
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0.0 0.5 1.0 3.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 25.0 45.0 45.0 70.	4.45E+01 4.40E+01 3.78E+01 3.78E+01 3.14E+01 2.49E+01 1.46E+01 1.11E+01 8.45E+00 6.49E+00 5.03E+00 1.62E+00 6.78E-01 3.71E-01 1.37E-01 1.09E-01 7.67E-02 3.53E-02 2.71E-02	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01 2.14E+01 1.06E+01 1.56E+01 7.54E+00 4.02E+00 3.01E+00 8.96E-01 1.26E-01 1.26E-02 3.93E-02 3.03E-02 3.03E-02 1.42E-02	6.59E+01 6.36E+01 5.72E+01 1.98E+01 1.58E+01 1.58E+01 1.66E+00 4.50E+00 3.11E+00 2.21E+00 1.61E+00 4.86E-01 2.10E-01 1.06E-01 6.06E-02 2.73E-02 2.73E-02 2.53E-03 6.65E-03 6.65E-03	8KEV 7.73E+81 7.22E+01 5.97E+01 3.36E+01 1.01E+01 5.98E+00 3.68E+00 2.37E+00 1.52E+00 8.13E-01 2.41E-01 9.76E-02 4.91E-02 2.88E-02 1.85E-02 1.85E-02 1.26E-02 8.93E-03 6.57E-03 2.60E-03	ENUM. Z=42 16KEV 8.92E+01 7.83E+01 5.63E+01 2.44E+01 1.12E+01 5.65E+00 3.07E+00 1.79E+00 1.79E+00 1.79E+01 3.84E-01 1.08E-01 4.31E-02 2.14E-02 1.20E-03 4.71E-03 3.22E-03 4.71E-03	32KEV 1.03E+02 8.05E+01 4.69E+01 1.55E+01 1.55E+00 2.72E+00 1.40E+00 8.08E+01 3.37E-01 2.34E-01 1.67E-01 4.38E-02 7.75E-03 4.13E-03 1.54E-03 1.54E-03 1.54E-04 2.46E-04	64KEV 1.22E+02 7.75E+01 3.46E+01 2.81E+00 1.19E+00 6.09E-01 3.49E-01 1.38E-01 9.26E-02 1.55E-03 2.55E-03 1.31E-03 1.31E-04 4.71E-04 3.10E-04 4.14E-04 6.72E-05	1.56E+02 6.94E+01 2.30E+01 4.12E+00 1.23E+00 5.17E-01 1.38E-01 1.38E-02 4.99E-02 3.27E-02 2.23E-02 5.13E-03 1.78E-03 7.84E-04 4.00E-04 1.39E-04 9.06E-05 6.19E-05 1.86E-05	2.28E+02 5.84E+01 1.38E+01 1.89E+001 5.51E-01 2.12E-02 4.94E-02 2.73E-02 1.12E-03 1.66E-04 1.23E-05 4.24E-05 4.23E-05 4.23E-05 4.23E-05 5.66E-06 5.73E-05 6.66E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06 6.73E-06
0.05 1.00 3.00 5.00 7.00 7.00 15.00 15.00 15.00 45.00 45.00 45.00 70.00 70.00 70.00	4.45E+01 4.40E+01 3.78E+01 3.78E+01 3.14E+01 2.49E+01 1.46E+01 1.11E+01 8.45E+00 6.49E+00 6.78E-01 3.71E-01 2.37E-01 1.59E-01 7.67E-02 3.53E-02 2.71E-02 2.32E-02	2KEV 5.49E+01 5.38E+01 5.08E+01 3.03E+01 2.14E+01 1.50EE+01 1.50EE+01 3.01E+00 3.01E+00 3.01E+00 3.01E+00 3.01E+00 3.01E-01 7.96E-01 7.96E-01 7.96E-02 3.03E-02	6.59E+01 6.36E+01 5.72E+01 1.98E+01 1.58E+01 1.58E+01 1.01E+01 6.66E+00 4.50E+00 1.61E+00 1.61E+00 4.86E-01 1.06E-01 6.06E-02 3.90E-02 2.01E-02 2.01E-02 9.66E-03 4.99E-03 4.09E-03	8KEV 7.73E+01 7.22E+01 3.36E+01 1.81E+01 1.01E+01 5.98E+00 3.68E+00 2.37E+00 1.12E+00 1.12E+01 2.47EE-02 2.891E-02 1.85E-02 1.85E-02 1.85E-03 3.91E-03 3.91E-03 1.86E-03 1.47E-03	ENUM. Z=42 8.92E+01 7.83E+01 5.63E+01 5.65E+00 3.07E+00 1.73E+00 1.73E+00 1.73E+01 5.29E-01 1.08E-02 7.29E-03 4.71E-02 7.28E-03 4.71E-03 3.22E-03 4.71E-03 3.22E-03 4.71E-03 3.22E-03 4.72E-04 5.88E-04	32KEV 1.03E+02 8.05E+01 4.65E+01 1.55E+01 6.04E+00 2.72E+00 8.08E-01 3.37E-01 2.34E-01 4.38E-02 7.75E-03 4.13E-03 1.54E-03 7.33E-04 4.03E-04 4.04E-04 4.04E-04	64KEV 1.22E+02 7.75E+01 3.45E+00 2.81E+00 1.19E+00 3.49E+01 2.44E-01 1.38E-01 9.26E-02 1.558E-02 2.51E-03 7.57E-04 4.71E-04 3.10E-04 4.71E-04 4.72E-05 4.36E-05 4.36E-05	1.56E+02 6.94E+01 2.30E+00 1.23E+00 5.17E-01 2.55E-01 1.35E-01 8.04E-02 4.99E-02 3.27E-02 5.13E-03 7.84E-04 4.00E-04 4.00E-04 1.39E-05 6.19E-05 1.86E-05 1.86E-05 1.86E-05	2.28E+02 5.84E+01 1.389E+00 5.51E-01 2.12E-01 9.61E-02 2.81E-02 1.73E-02 1.12E-03 1.68E-03 1.68E-04 6.94E-05 2.73E-05 4.23E-05 4.23E-05 5.36E-06 3.28E-06
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0.0 0.5 1.0 3.0 5.0 7.0 8.0 9.0 10.0 15.0 20.0 20.0 45.0 70.0 45.0 70.0 45.0 70.0 10	4.45E+01 4.40E+01 3.78E+01 3.78E+01 3.14E+01 1.92E+01 1.46E+01 1.11E+01 8.45E+00 6.49E+00 5.03E+00 1.62E+00 1.71E-01 1.59E-01 1.59E-01 1.09E-01 7.67E-02 2.53E-02 2.71E-02 2.71E-02 2.32E-02 1.91E-02 1.31E-03 6.05E-03 6.05E-03 3.67E-02	2KEV 5.49E+01 5.38E+01 5.08E+01 4.11E+01 1.03E+01 1.06E+01 1.06E+01 1.02E+00 3.01E+00 3.95E-01 1.26E-01 1.26E-01 1.26E-02 3.93E-02 3.03E-02 3.03E-02 3.03E-03	6.59E+01 6.36E+01 5.72E+01 1.98E+01 1.58E+01 1.58E+01 1.66E+00 4.50E+00 3.11E+00 2.21E+00 1.61E+01 4.86E-01 2.10E-01 1.06E-02 3.90E-02 2.73E-02 2.73E-02 2.73E-03 4.99E-03 4.99E-03 3.45E-03 3.45E-03 3.55E-03 3.70E-03	8KEV 7.73E+81 7.22E+81 7.27E+01 3.36E+01 1.01E+01 5.98E+00 3.68E+00 2.37E+00 1.59E+00 8.13E-01 2.41E-02 4.91E-02 2.88E-02 1.85E-02 1.85E-02 1.85E-03 3.91E-03 1.47E-03 1.47E-03 1.21E-03 1.47E-03 1.21E-03 1.21E-04 8.13E-04	ENUM. KEY 16 KEY 17.83E+01 7.83E+01 5.63E+01 1.12E+01 15.65E+00 11.79E+00 11.79E+00 11.79E+00 11.754E-01 5.84E-01 1.28E-02 1.20E-03 3.14E-02 1.20E-03 3.14E-02 1.20E-03 3.35E-04 3.35E-04 3.35E-04 4.37E-04 1.77E-04	32KE+02 8.05E+01 4.55E+01 1.55E+01 1.55E+00 2.72E+00 1.40EE-01 3.37E-01 2.34E-01 4.35E-01 4.36FE-01 4.36FE-03 4.13E-03 1.54E-04 1.54E-04 1.54E-04 1.54E-04 1.55	64KEV 27.75E+01 3.46E+00 1.19E+00 1.19E+00 1.3.48E+01 1.38E-01 1.38E-01 1.38E-02 1.58E-03 1.57E-04 7.1E-04 7.1E-04 7.1E-04 7.14E-04 7.1E-04 7.1E-05 7.	1.56E+02 6.94E+01 2.30E+00 1.23E+00 5.17E-01 1.38E-01 1.38E-01 1.38E-02 4.99E-02 3.27E-02 2.23E-02 5.13E-03 1.78E-04 4.027E-04 1.39E-04 9.06E-05 5.19E-05 1.86E-05 1.170E-05 7.80E-05 1.170E-05 1.170E-05 7.80E-06 2.07E-06	2.28E+02 5.84E+01 1.38E+01 1.89E+01 5.51E-01 2.12E-02 4.94E-02 2.1.73E-02 1.66E-03 1.66E-04 1.23E-03 1.66E-04 1.23E-05 4.23E-05 4.23E-05 4.23E-06 5.36E-06 5.36E-06 5.36E-06 7.75E-07 4.56E-07 4.56E-07 4.56E-07 4.56E-07 4.56E-07 4.56E-07 4.56E-07 4.56E-07 4.56E-07 4.56E-07 4.56E-07 4.56E-07 4.56E-07 4.56E-07 4.56E-07
0.0 0.5 1.0 3.0 5.0 5.0 7.0 8.0 9.0 10.0 20.	4.45E+01 4.40E+01 3.78E+01 3.78E+01 2.49E+01 1.46E+01 1.11E+01 8.45E+00 6.49E+00 7.1E-01 3.71E-01 2.37E-01 1.59E-01 1.59E-01 1.59E-01 2.37E-02 3.53E-02	2KEV 5.49E+01 5.38E+01 5.38E+01 5.01E+01 3.01E+01 1.56E+01 7.54E+00 5.47E+00 4.02E+00 3.01E+00	6.59E+01 6.36E+01 5.72E+01 1.58E+01 1.58E+01 1.58E+01 1.66E+00 4.50E+00 2.11E+00 2.21E+00 4.61E+00 4.86E-01 1.06E-01 1.06E-01 6.06E-02 3.90E-02 2.71E-02 2.01E-02 1.53E-02 2.01E-03 4.99E-03 4.99E-03 3.45E-03 3.45E-03 3.57E-03 3.70E-03 3.70E-03 3.70E-03 3.70E-03 3.70E-03 3.70E-03 3.70E-03	8KEV 7.73E+01 7.27E+01 3.36E+01 1.01E+01 1.01E+00 3.68E+00 2.37E+00 1.59E+00 8.13E-01 2.41E-02 2.88E-02 1.26E-02 8.93E-03 6.57E-03 3.91E-03 1.47E-03 1.47E-03 1.05E-04 8.13E-04 8.13E-04 7.79E-04	ENUM	328+02 8.05E+01 4.55E+01 6.04E+00 1.565E+01 6.04E+00 1.565E+01 3.07E-01 3.37E-01 3.34F-01 4.38F-01 4.38F-01 4.38E-01 4.38E-03 4.13E-03 4.13E-04 4.04E-04 1.64E-04 1.64E-04 1.64E-04 1.64E-04 1.64E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05	64EE+02 7.75E+01 3.5EE+00 1.19E+00 2.81E+00 1.19E+01 1.38E-01 1.38E-01 1.38E-01 1.38E-02 1.581E-02 1.581E-02 1.581E-04 4.71E-04 4.71E-04 4.71E-04 2.14E-05 2.96 2.164E-05 2.164E-05 2.164E-05 2.164E-05 2.164E-05 2.164E-05 3.164E-06 3.16E-06	1.56E+02 6.94E+01 2.30E+00 1.23E+00 1.23E+00 1.23E+01 2.55E-01 1.38E-01 8.04E-02 4.99E-02 3.27E-02 5.178-02 5.178-03 1.784E-04 4.00E-04 4.00E-05 1.86E-05 1.86E-05 1.86E-05 7.80E-05 1.16E-05 7.80E-06 4.07E-06 3.11E-06 2.07E-06 1.81E-06	2.28E+02 5.84E+01 1.389E+001 5.51E-01 2.12E-01 2.12E-02 1.73E-02 1.73E-02 1.74E-03 1.68E-03 1.68E-04 6.948E-05 2.448E-04 6.948E-05 2.73E-05 1.85E-06 5.328E-06 5.328E-06 5.328E-06 6.948E-06 6.948E-06 6.948E-07 7.75E-07 7.75E-07 7.75E-07
0.0 0.5 1.0 3.0 5.0 7.0 8.0 9.0 15.0 20.0 15.0 20.0 40.0 70.0 80.0 70.0 10	4.45E+01 4.40E+01 3.78E+01 3.78E+01 3.14E+01 2.49E+01 1.92E+01 1.46E+01 1.11E+01 8.45E+00 6.49E+00 1.62E+00 6.78E-01 1.59E-01 1.59E-01 1.59E-01 1.59E-02 3.53E-02 2.71E-02 2.32E-02 1.31E-02 7.24E-03 6.89E-02 3.67E-02 3.67E-02 3.67E-02	2KEV 5.49E+01 5.38E+01 5.38E+01 5.01E+01 3.03E+01 1.56E+01 1.56E+00 5.47E+00 4.02E+00 3.01E+00 3.01E+00 3.01E+00 3.01E+00 3.02E-01 1.26E-01 7.96E-02 3.93E-02 3.93E-02 1.04E-03 6.97E-03 6.97E-03 6.97E-02 1.04E-02	6.59E+01 6.36E+01 5.72E+01 1.98E+01 1.58E+01 1.58E+01 1.66E+00 4.50E+00 1.61E+00 1.61E+00 1.61E+00 1.61E+00 1.66E-01 1.06E-01 1.06E-01 1.06E-02 1.06E-02 1.06E-02 1.06E-03 1.06E-03 1.06E-03 1.06E-03 1.06E-03 1.06E-03 1.06E-03 1.09E-03	8KEV 7.73E+01 7.22E+01 3.36E+01 1.81E+01 1.91E+01 3.68E+00 3.68E+00 2.37E+00 1.12E+01 2.47EE-02 2.88E-02 1.26E-02 1.26E-02 2.88E-03 3.69E-03 3.69E-03 3.69E-03 3.69E-03 3.69E-03 3.69E-03 3.69E-03 3.69E-03 3.69E-03 3.69E-03 3.69E-03 3.69E-04	ENUM 16KE+01 7.83E+01 7.83E+01 5.63E+01 1.12E+00 1.12E+00 1.73E+00 1.73E+00 1.73E+00 1.73E-00	32KEV2 8.05E+01 4.05E+01 4.05E+01 6.04E+00 2.72E+00 1.08E-01 3.37E-01 2.34F-01 2.34F-01 4.38F-01 2.34F-01 4.38F-03 3.75E-03 4.08E-04 4.08E-04 4.08E-04 4.08E-04 4.08E-04 4.08E-04 4.08E-04 4.08E-04 4.08E-04 4.08E-04 4.08E-04 3.37E-05 4.08E-05 4.08E-05 4.08E-05 4.09E-05	64E+02 7.75E+01 3.5E+00 2.81E+00 2.81E+00 1.19E+00 3.44E-01 1.38E-01 1.38E-01 1.38E-02 1.58E-02 1.58E-04 4.71E-04 4.71E-04 4.71E-04 4.71E-04 4.73E-05 2.64E-05 2.164E-05 2.164E-05 2.164E-05 2.164E-05 3.10E-06 4.76E-06 7.48E-06	1.56E+02 6.94E+01 2.30E+00 1.23E+00 1.23E+00 1.23E+01 1.38E-01 1.38E-01 1.38E-02 4.99E-02 2.27E-02 5.13E-03 1.78E-04 4.00E-04 2.27E-04 1.39E-05 1.86E-05 1.17E-05 1.17E-05 1.17E-05 1.17E-06 4.07E-06 4.07E-06 4.07E-06 1.81E-06 2.48E-06 2.48E-06 1.81E-06 1.62E-06	2.28E+02 5.84E+01 1.389E+001 5.51E-01 2.12E-02 1.73E-02 1.74E-02 1.75E-03 1.66E-03 1.66E-03 1.66E-04 1.28E-05 1.28E-05 1.28E-05 1.28E-05 1.28E-05 1.28E-05 1.28E-05 1.28E-05 1.28E-06 1.28E-06 1.28E-06 1.28E-06 1.28E-06 1.28E-06 1.28E-07 1.28E-07 1.28E-07 1.28E-07 1.28E-07 1.28E-07 1.28E-07 1.28E-07 1.28E-07
0.0 0.5 1.0 3.0 5.0 5.0 7.0 8.0 9.0 10.0 20.	4.45E+01 4.40E+01 3.78E+01 3.78E+01 2.49E+01 1.46E+01 1.11E+01 8.45E+00 6.49E+00 7.1E-01 3.71E-01 2.37E-01 1.59E-01 1.59E-01 1.59E-01 2.37E-02 3.53E-02	2KEV 5.49E+01 5.38E+01 5.38E+01 5.01E+01 3.01E+01 1.56E+01 7.54E+00 5.47E+00 4.02E+00 3.01E+00	6.59E+01 6.36E+01 5.72E+01 1.58E+01 1.58E+01 1.58E+01 1.66E+00 4.50E+00 2.11E+00 2.21E+00 4.61E+00 4.86E-01 1.06E-01 1.06E-01 6.06E-02 3.90E-02 2.71E-02 2.01E-02 1.53E-02 2.01E-03 4.99E-03 4.99E-03 3.45E-03 3.45E-03 3.57E-03 3.70E-03 3.70E-03 3.70E-03 3.70E-03 3.70E-03 3.70E-03 3.70E-03	8KEV 7.73E+01 7.27E+01 3.36E+01 1.01E+01 1.01E+00 3.68E+00 2.37E+00 1.59E+00 8.13E-01 2.41E-02 2.88E-02 1.26E-02 8.93E-03 6.57E-03 3.91E-03 1.47E-03 1.47E-03 1.05E-04 8.13E-04 7.79E-04	ENUM	328+02 8.05E+01 4.55E+01 6.04E+00 1.565E+01 6.04E+00 1.565E+01 3.07E-01 3.37E-01 3.34F-01 4.38F-01 4.38F-01 4.38E-01 4.38E-03 4.13E-03 4.13E-04 4.04E-04 1.64E-04 1.64E-04 1.64E-04 1.64E-04 1.64E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05 4.05E-05	64EE+02 7.75E+01 3.5EE+00 1.19E+00 2.81E+00 1.19E+01 1.38E-01 1.38E-01 1.38E-01 1.38E-02 1.581E-02 1.581E-02 1.581E-04 4.71E-04 4.71E-04 4.71E-04 2.14E-05 2.96 2.164E-05 2.164E-05 2.164E-05 2.164E-05 2.164E-05 2.164E-05 3.164E-06 3.16E-06	1.56E+02 6.94E+01 2.30E+00 1.23E+00 1.23E+00 1.23E+01 2.55E-01 1.38E-01 8.04E-02 4.99E-02 3.27E-02 5.178-02 5.178-03 1.784E-04 4.00E-04 4.00E-05 1.86E-05 1.86E-05 1.86E-05 7.80E-05 1.16E-05 7.80E-06 4.07E-06 3.11E-06 2.07E-06 1.81E-06	2.28E+02 5.84E+01 1.389E+001 5.51E-01 2.12E-01 9.64E-02 2.61E-02 1.73E-02 1.72E-03 1.66E-03 5.66E-04 4.24E-04 6.94E-05 4.23E-05 1.85E-06 5.328E-06 5.328E-06 5.328E-06 7.57E-07 7.57E-07 7.57E-07
0.05 1.00 3.00 7.00 7.00 10.00 15.00 15.00 15.00 15.00 15.00 15.00 15.00 10.00 10.00 11.00 10.00	4.45E+01 4.40E+01 3.78E+01 3.78E+01 3.78E+01 1.92E+01 1.92E+01 1.11E+01 8.45E+00 6.49E+00 6.49E+00 6.78E-01 3.77E-01 1.59E-01 1.59E-01 1.59E-01 1.59E-01 2.37E-02 2.71E-02 2.71E-02 2.71E-02 2.71E-02 2.71E-02 2.71E-02 2.71E-02 2.71E-02 2.71E-02 2.71E-01 1.31E-01 3.49E-02 3.67E-02 6.89E-02 1.31E-01	2KEV 5.49E+01 5.38E+01 5.38E+01 5.01E+01 1.506E+01 1.506E+01 1.506E+00 3.01E+0	6.59E+01 6.36E+01 5.72E+01 1.58E+01 1.58E+01 1.58E+01 1.58E+00 1.66E+00 3.11E+00 2.21E+00 1.61E+00 4.86E-01 1.06E-01 1.06E-02 3.90E-02 2.01E-02 2.01E-02 3.90E-02 2.01E-03 4.09E-03 3.45E-03 3.45E-03 3.45E-03 3.45E-03 3.45E-03 3.45E-03	8KEV 7.73E+81 7.22E+01 3.36E+01 1.01E+01 1.01E+01 1.01E+00 3.68E+00 1.59E+00 1.59E+00 8.13E-01 2.476E-02 4.91E-02 2.88E-02 1.26E-02 8.93E-03 3.61E-03 1.26E-03 1.88E-03 1.26E-03 1.26E-03 1.26E-03 1.26E-03 1.26E-04 7.76E-04 7.77E-04 7.77E-04 7.75E-04 7.75E-04	ENUM	32KE+02 8.05E+01 4.05E+01 6.04E+00 2.72E+00 1.59E+01 6.04E+00 2.72E+00 1.59E+01 3.37E-01 4.08E-01 4.38E-01 4.38E-03 1.54E-03 2.46E-04 4.13E-04 4.13E-04 4.13E-04 4.13E-04 4.13E-04 4.13E-04 4.13E-04 4.13E-04 4.13E-05 4.13E-0	64EE+01 22E+01 3.45EE+01 2.81EE+01 2.81EE+01 2.81EE+01 2.81EE+01 2.81EE+01 2.81EE-01 3.81EE-01 3.81E	1.56E+02 6.94E+01 2.30E+00 1.23E+00 1.23E+00 1.23E+01 1.38E-01 1.38E-01 1.38E-02 2.23E-02 2.23E-02 2.23E-02 2.23E-02 3.1.78E-04 2.27E-04 1.39E-05 3.22E-05 1.86E-05 3.12E-06 4.07E-06 4.07E-06 4.07E-06 2.48E-06 2.48E-06 2.48E-06 1.50E-06	2.28E+02 5.84E+01 1.389E+01 5.51E-01 2.12E-02 4.94E-02 4.94E-02 1.73E-02 1.74E

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

				STIVED	. Z=47				
ANGLE	1KEV	2KEV	4KE V	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
0.0	2.54E+01	3.27E+01	4.08E+01	4.96E+01	5.90E+01	6.96E+01	8.40E+01	1.08E+02	1.60E+02
0.5	2.52E+01	3.22E+01	3.97E+01	4.72E+01	5.37E+01	5.84E+01	6.07E+01	6-04E+01	5.81E+01
1.0	2.47E+01	3.09E+01	3.68E+01	4.11E+01	4.23E+01	3.93E+01	3.29E+01	2.50E+01	1.67E+01
2.0 3.0	2.25E+01 1.96E+01	2.64E+01 2.10E+01	2.82E+01 1.99E+01	2.68E+01 1.64E+01	2.23E+01 1.17E+01	1.62E+01 7.01E+00	9.98E+00	5-12E+00	2.30E+00
4.0	1.64E+01	1.61E+01	1.37E+01	1.02E+01	6.34E+0D	3.26E+00	3.45E+00 1.43E+00	1.48E+00 5.94E-01	6.35E-01 2.50E-01
5.0	1.34E+01	1.21E+01	9.50E+00	6.37E+00	3.56E+00	1.66E+00	7.04E-01	2.93E-01	1.16E-01
6.0	1.08E+01	9.10E+00	6.62E+00	4.07E+00	2.09E+00	9.40E-01	3.96E-01	1.61E-01	6.03E-02
7.0	8.66E+00	6.86E+00	4.65E+00	2.66E+00	1.31E+00	5.79E-01	2.43E-01	9.54E-02	3.44E-02
8.0	6.93E+00	5.19E+00	3.31E+00	1.79E+00	8.63E-01	3.81E-01	1.57E-01	5.98E-02	2.11E-02
9.0	5.55E+00	3.94E+00	2.38E+00	1.25E+00	5.99E-01	2.63E-01	1.07E-01	3.94E-02	1.37E-02
10.0	4.46E+00	3.02E+00	1.75E+00	9.07E-01	4.33E-01	1.88E-01	7.48E-02	2.706-02	9.30E-03
15.0	1.56E+00	9.17E-01	5.18E-01	2.71E-01	1.21E-01	4.97E-02	1.85E-02	6.24E-03	2.07E-03
20.0	6.42E-01	4.01E-01	2.34E-01	1.12E-01	4.77E-02	1.92E-02	6.72E-03	2.19E-03	7.07E-04
25.0	3.44E-01	2.29E-01	1.23E-01	5.49E-02	2.375-02	9.12E-03	3.04E-03	9.69E-04	3.07E-04
30.0	2.26E-01	1.43E-01	7.04E-02	3.14E-02	1.35E-02	4.91E-03	1.59E-03	4.99E-04	1.56E-04
35.0	1.63E-01 1.19E-01	9.28E-02 6.31E-02	4.41E-02	2.01E-02	8.36E-03	2.90E-03	9.28E-04	2-85E-04	8 • 8 3 E = 0 5
40.0 45.0	8.83E-02	4.53E-02	3.01E-02 2.18E-02	1.38E-02 9.89E-03	5.49E-03 3.78E-03	1.85E-03 1.25E-03	5.83E-04 3.87E-04	1.76E-04 1.15E-04	5.41E-05 3.52E-05
50.0	6.58E-02	3.43E-02	1.66E-02	7.36E-03	2.73E-03	8.89E-04	2.70E-04	7.92E-05	2.40E-05
60.0	3.89E-02	2.23E-02	1.05E-02	4.45E-03	1.58E-03	4.97E-04	1.45E-04	4.16E-05	1.23E-05
70.0	2.80E-02	1.59E-02	7.20E-03	2.99E-03	1.02E-03	3.08E-04	8.66E-05	2.43E-05	7.05E-06
80.0	2.59E-02	1.17E-02	5.37E-03	2.19E-03	7.16E-04	2.06E-04	5.51E-05	1.54E-05	4.35E-06
90.0	2.50E-02	8.68E-03	4.39E-03	1.73E-03	5.37E-04	1.47E-04	3.88E-05	1.04E-05	2.84E-06
100.0	1.98E-02	6.79E-03	3.95E-03	1.46E-03	4.24E-04	1.11E-04	2.83E-05	7.34E-06	1.94E-06
110.0	1.04E-02	6.44E-03	3.91E-03	1.40E-03	3.50E-04	8.73E-05	2.17E-05	5.41E-06	1.37E-06
120.0	3.58E-03	8.10E-03	4.11E-03	1.19E-03	2.99E-04	7.17E-05	1.73E-05	4.18E-06	1.01E-06
130.0	9.11E-03	1.20E-02	4.46E-03	1.13E-03	2.64E-04	6-11E-05	1.44E-05	3.38E-06	7.78E-07
140.0	3.40E-02	1.77E-02	4.87E-03	1.09E-03	2.40E-04	5.39E-05	1.24E-05	2.34E-06	6.20E-07
150.0	7.68E-02	2.45E-02	5.26E-03	1.07E-03	2-23E-04	4.90E-05	1.10E-05	2.46E-06	5-12E-07
160.0	1.27E-01	3.09E-02	5.58E-03	1.06E-03	2.12E-04	4.59E-05	1.02E-05	2.19E-06	4.39E-07
170.0 180.0	1.67E-01 1.82E-01	3.54E-02 3.71E-02	5.79E-03 5.86E-03	1.05E-03 1.05E-03	2.06E-04 2.04E-04	4.41E+05 4.35E-05	9.68E-06 9.53E-06	2.02E-06 1.96E-06	3.96E-07 3.84E-07
TOTAL	2.14E+00	1.54E+00	1.07E+00	7.17E-01	4.61E-01	2.87E-01	1.76E-01	1.11E-01	7.48E-02
TRANS	5-10E-01	2.20E-01	8.56E-02	3.10E-02	1.06E-02	3.52E-03	1.13E-03	3.65E-04	1.21E-04
				TIN. Z	=50				
ANGLE	1KEV	2KEV	4KEV	TIN. Z 8KEV	=50 16KEV	32KEV	64KEV	128KEV	256KE V
0.0	4.37E+01	5.46E+01	6.68E+01	8KEV 7.98E+01	16KEV 9.39E+01	1.10E+02	1.32E+02	1.70E+02	2.52E+02
0.0 0.5	4.37E+01 4.32E+01	5.46E+01 5.37E+01	6.68E+01 6.47E+01	8KEV 7.98E+01 7.51E+01	16KEV 9.39E+01 8.37E+01	1.10E+02 8.86E+01	1.32E+02 8.81E+01	1.70E+02 8.11E+01	2.52E+02 6.92E+01
0.0 0.5 1.0	4.37E+01 4.32E+01 4.20E+01	5.46E+01 5.37E+01 5.10E+01	6.68E+01 6.47E+01 5.88E+01	8KEV 7.98E+01 7.51E+01 6.33E+01	16KEV 9.39E+01 8.37E+01 6.19E+01	1.10E+02 8.86E+01 5.33E+01	1.32E+02 8.81E+01 4.00E+01	1.70E+02 8.11E+01 2.73E+01	2.52E+02 6.92E+01 1.78E+01
0.0 0.5 1.0 2.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01	5.46E+01 5.37E+01 5.10E+01 4.19E+01	6.68E+01 6.47E+01 5.88E+01 4.20E+01	8KEV 7.98E+01 7.51E+01 6.33E+01 3.65E+01	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01	1.10E+02 8.86E+01 5.33E+01 1.77E+01	1.32E+02 8.81E+01 4.00E+01 1.05E+01	1.70E+02 8.11E+01 2.73E+01 5.58E+00	2.52E+02 6.92E+01 1.78E+01 2.58E+00
0.0 0.5 1.0	4.37E+01 4.32E+01 4.20E+01	5.46E+01 5.37E+01 5.10E+01	6.68E+01 6.47E+01 5.88E+01 4.20E+01 2.68E+01	8KEV 7.98E+01 7.51E+01 6.33E+01 3.65E+01 1.95E+01	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01 1.25E+01	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01
0.0 0.5 1.0 2.0 3.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 3.16E+01	5.46E+01 5.37E+01 5.10E+01 4.19E+01 3.14E+01	6.68E+01 6.47E+01 5.88E+01 4.20E+01	8KEV 7.98E+01 7.51E+01 6.33E+01 3.65E+01	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01	1.10E+02 8.86E+01 5.33E+01 1.77E+01	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 1.58E+00	1.70E+02 8.11E+01 2.73E+01 5.58E+00	2.52E+02 6.92E+01 1.78E+01 2.58E+00
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 3.16E+01 2.53E+01 1.95E+01	5.46E+01 5.37E+01 5.10E+01 4.19E+01 3.14E+01 2.22E+01 1.54E+01 1.07E+01	6.68E+01 6.47E+01 5.88E+01 4.20E+01 2.68E+01 1.66E+01 1.06E+01 6.97E+00	8KEY 7.98E+81 7.51E+01 6.33E+01 3.65E+01 1.95E+01 1.09E+01 6.57E+00 4.17E+00	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01 1.25E+01 6.54E+00	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 2.53E+01 1.95E+01 1.48E+01 1.11E+01	5.46E+01 5.37E+01 5.10E+01 4.19E+01 3.14E+01 2.22E+01 1.54E+01 1.07E+01 7.59E+00	6.68E+01 6.47E+01 5.88E+01 4.20E+01 2.68E+01 1.66E+01 1.06E+01 6.97E+00 4.78E+00	8KEY 7.98E+01 7.51E+01 6.33E+01 3.65E+01 1.95E+01 6.57E+00 4.17E+00 2.75E+00	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01 1.25E+01 6.54E+00 3.71E+00 2.22E+00 1.40E+00	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.81E+00 1.03E+00 6.28E-01	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 1.58E+00 7.73E-01 4.30E-01 2.62E-01	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-01 6.69E-02 3.83E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 3.16E+01 2.53E+01 1.95E+01 1.11E+01 8.35E+00	5.46E+01 5.37E+01 5.10E+01 4.19E+01 3.14E+01 2.22E+01 1.54E+01 1.07E+01 7.59E+00 5.50E+00	6.68E+01 6.47E+01 5.88E+01 4.20E+01 2.68E+01 1.66E+01 1.06E+01 6.97E+00 3.38E+00	8KEY 7.98E+01 7.51E+01 6.33E+01 3.65E+01 1.95E+01 1.09E+01 6.57E+00 4.17E+00 2.75E+00 1.88E+00	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01 1.25E+01 6.54E+00 3.71E+00 2.22E+00 1.40E+00 9.24E-01	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.81E+00 1.03E+00 6.28E-01 4.11E-01	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 1.04E-01 6.56E-02	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-01 6.69E-02 3.83E-02 2.35E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 3.16E+01 1.95E+01 1.48E+01 1.11E+01 8.35E+00 6.35E+00	5.46E+01 5.37E+01 5.10E+01 4.19E+01 2.22E+01 1.54E+01 1.07E+01 7.59E+00 4.08E+00	6.68E+01 6.47E+01 5.88E+01 4.20E+01 1.66E+01 1.06E+01 6.97E+00 4.78E+00 3.38E+00 2.44E+00	8KEY 7.98E+01 7.51E+01 6.33E+01 1.95E+01 1.09E+01 6.57E+00 4.17E+00 2.75E+00 1.88E+00 1.32E+00	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 6.54E+00 3.71E+00 2.22E+00 1.40E+00 9.24E-01 6.41E-01	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.81E+00 1.03E+00 4.11E-01 2.83E-01	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.15E-01	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 1.04E-01 6.56E-02 4.34E-02	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-01 6.69E-02 2.85E-02 1.53E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 3.16E+01 2.53E+01 1.95E+01 1.11E+01 8.35E+00	5.46E+01 5.37E+01 5.10E+01 4.19E+01 3.14E+01 2.22E+01 1.54E+01 1.07E+01 7.59E+00 5.50E+00	6.68E+01 6.47E+01 5.88E+01 4.20E+01 2.68E+01 1.66E+01 1.06E+01 6.97E+00 3.38E+00	8KEY 7.98E+01 7.51E+01 6.33E+01 3.65E+01 1.95E+01 1.09E+01 6.57E+00 4.17E+00 2.75E+00 1.88E+00	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01 1.25E+01 6.54E+00 3.71E+00 2.22E+00 1.40E+00 9.24E-01	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.81E+00 1.03E+00 6.28E-01 4.11E-01	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 1.04E-01 6.56E-02	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-01 6.69E-02 3.83E-02 2.35E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 3.16E+01 1.95E+01 1.48E+01 1.11E+01 8.35E+00 6.35E+00	5.46E+01 5.37E+01 5.10E+01 4.19E+01 2.22E+01 1.54E+01 1.07E+01 7.59E+00 4.08E+00	6.68E+01 6.47E+01 5.88E+01 4.20E+01 1.66E+01 1.06E+01 6.97E+00 4.78E+00 3.38E+00 2.44E+00	8KEY 7.98E+01 7.51E+01 6.33E+01 1.95E+01 1.09E+01 6.57E+00 4.17E+00 2.75E+00 1.88E+00 1.32E+00	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 6.54E+00 3.71E+00 2.22E+00 1.40E+00 9.24E-01 6.41E-01	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.81E+00 1.03E+00 4.11E-01 2.83E-01	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.15E-01	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 1.04E-01 6.56E-02 4.34E-02	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-01 6.69E-02 2.85E-02 1.53E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 3.16E+01 1.95E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00	5.46E+01 5.37E+01 5.10E+01 4.19E+01 2.22E+01 1.54E+01 1.07E+01 7.59E+00 5.50E+00 4.08E+00 3.09E+00 9.59E-01 4.08E-01	6.68E+01 6.47E+01 5.88E+01 4.20E+01 2.68E+01 1.66E+01 1.06E+01 6.97E+00 3.38E+00 2.44E+00 1.81E+00	8KEY 7.98E+01 7.51E+01 6.33E+01 1.95E+01 1.09E+01 6.57E+00 4.17E+00 2.75E+00 1.88E+00 1.32E+00 9.55E-01 2.86E-01 1.21E-01	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 6.54E+00 3.71E+00 2.22E+00 1.40E+00 9.24E-01 6.41E-01 4.62E-01 1.31E-01 5.11E-02	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.03E+00 6.28E-01 4.11E-01 2.83E-01 2.02E-01 5.32E-02	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 1.58E+00 7.73E-01 4.30E-01 2.62E-01 1.70E-01 1.15E-01 8.08E-02	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 6.56E-02 4.34E-02 2.98E-02	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-01 6.69E-02 3.83E-02 2.35E-02 1.53E-02
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 9.0 10.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 2.53E+01 1.95E+01 1.148E+01 1.15E+01 4.35E+00 4.89E+00	5.46E+01 5.37E+01 5.10E+01 4.19E+01 2.22E+01 1.54E+01 1.54E+01 7.59E+00 4.08E+00 3.09E+00 4.08E+00 3.09E+00 4.08E+01 2.29E-01	6.68E+01 6.47E+01 7.88E+01 4.20E+01 1.66E+01 1.06E+01 6.97E+00 4.78E+00 2.44E+00 1.81E+00 5.34E-01 1.31E-01	8KEY 7.98E+01 7.51E+01 6.33E+01 1.95E+01 1.09E+01 6.57E+00 4.17E+00 1.7E+00 1.88E+00 1.32E+00 9.55E-01 2.86E-01 5.96E-02	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 6.54E+00 3.71E+00 2.22E+00 1.40E+00 9.24E-01 6.41E-01 4.62E-01 1.31E-01 5.11E-02 2.51E-02	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.81E+00 1.81E+01 2.8E-01 2.83E-01 2.02E-01	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 1.58E+00 7.73E-01 4.30E-01 2.62E-01 1.70E-01 1.15E-01 8.08E-02 2.02E-02 7.40E-03 3.36E-03	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 1.04E-01 2.94E-02 4.34E-02 2.98E-02	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-01 6.69E-02 3.83E-02 1.53E-02 1.04E-02 2.32E-03 7.97E-04 3.48E-04
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 2.53E+01 1.95E+01 1.11E+01 8.35E+00 4.89E+00 1.63E+00 6.88E-01 3.55E-01 2.23E-01	5.46E+01 5.37E+01 5.10E+01 4.19E+01 2.22E+01 1.54E+01 1.07E+01 7.59E+00 4.08E+00 3.09E+00 4.08E+01 4.08E+01 1.07E+01 1.07E+01	6.68E+01 6.47E+01 7.88E+01 7.68E+01 1.66E+01 1.06E+01 6.97E+00 7.78E+00 7.38E+00 2.44E+00 1.81E+00 5.34E-01 2.41E-01 1.31E-01 7.66E-02	8KEY 7.98E+01 7.51E+01 6.33E+01 3.65E+01 1.95E+01 1.09E+01 6.57E+00 4.17E+00 2.75E+00 1.32E+00 1.32E+01 2.86E-01 2.86E-01 1.21E-01 3.36E-02	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01 1.25E+01 5.54E+00 2.22E+00 1.40E+00 9.24E-01 4.62E-01 1.31E-01 2.51E-02 1.43E-02	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.81E+00 1.81E+00 4.28E-01 4.18E-01 2.02E-01 5.32E-02 2.06E-02 9.89E-03 5.37E-03	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 1.58E+00 7.73E-01 4.30E-01 2.62E-01 1.70E-01 8.08E-02 2.02E-02 7.40E-03 3.36E-03 1.77E-03	1.70E+02 8.11E+01 2.73E+01 5.58E+00 6.51E-01 3.16E-01 1.74E-01 1.04E-01 1.04E-02 4.34E-02 2.98E-02 6.94E-03 2.44E-03 5.62E-04	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-01 6.69E-02 3.83E-02 2.35E-02 1.04E-02 2.32E-03 7.97E-04 1.77E-04
0.0 0.5 1.0 2.0 3.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 35.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 3.16E+01 2.53E+01 1.95E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+00 6.88E-01 3.55E-01 2.23E-01 1.60E-01	5.46E+01 5.37E+01 5.10E+01 4.19E+01 3.14E+01 1.54E+01 1.07E+01 7.59E+00 4.08E+00 3.09E+00 4.08E+01 4.29E-01 1.46E-01 9.78E-02	6.68E+01 6.47E+01 5.88E+01 1.268E+01 1.66E+01 1.06E+01 6.97E+00 3.38E+00 2.44E+00 1.81E+00 5.34E-01 2.41E-01 7.66E-02 4.81E-02	8KEY 7.98E+01 7.51E+01 6.33E+01 3.65E+01 1.95E+01 6.57E+00 6.57E+00 2.75E+00 1.88E+00 1.32E+00 2.55E-01 2.86E-01 2.96E-02 2.12E-02	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01 1.25E+01 6.54E+00 3.71E+00 2.22E+00 1.40E+00 9.24E-01 4.62E-01 1.31E-01 5.11E-02 2.51E-02 8.94E-03	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.03E+00 6.28E-01 4.11E-01 2.02E-01 5.32E-02 2.06E-02 9.89E-03 5.37E-03 3.19E-03	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.15E-01 8.08E-02 2.02E-02 7.40E-03 3.36E-03 1.77E-03 1.03E-03	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 6.56E-02 4.34E-02 2.98E-02 6.94E-03 2.44E-03 3.49E-03 3.49E-03	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-01 6.69E-02 3.83E-02 2.35E-02 1.53E-02 1.04E-02 2.32E-03 7.97E-04 1.77E-04 1.01E-04
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 30.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 3.16E+01 1.95E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+00 1.63E+00 1.63E+01 1.23E-01 1.20E-01	5.46E+01 5.37E+01 5.10E+01 4.19E+01 4.14E+01 1.54E+01 1.07E+01 1.07E+00 5.50E+00 4.08E+00 3.09E+00 9.59E-01 4.08E-01 2.29E-01 1.46E-01 2.75E-02 6.75E-02	6.68E+01 6.47E+01 5.88E+01 4.20E+01 2.68E+01 1.06E+01 6.97E+00 3.38E+00 2.44E+00 1.81E+00 5.34E-01 2.41E-01 1.31E-01 7.66E-02 3.25E-02	8KEY 7.98E+01 7.51E+01 6.33E+01 3.65E+01 1.95E+01 1.09E+01 6.57E+00 4.17E+00 2.75E+00 1.88E+00 1.32E+00 9.55E-01 2.86E-01 1.21E-01 5.96E-02 3.36E-02 2.12E-02 1.45E-02	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01 1.25E+01 6.54E+00 3.71E+00 2.22E+00 1.40E+00 9.24E-01 6.41E-01 4.62E-01 1.31E-01 5.11E-02 2.51E-02 1.43E-03 5.91E-03	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.03E+00 6.28E-01 4.11E-01 2.83E-01 2.02E-01 5.32E-02 9.89E-03 5.37E-03 3.19E-03 2.04E-03	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.15E-01 8.08E-02 2.02E-02 7.40E-03 3.36E-03 1.77E-03 1.03E-03 6.51E-04	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 6.56E-02 4.34E-02 2.98E-02 6.94E-03 2.44E-03 1.09E-03 5.62E-04 2.00E-04	2.52E+02 6.92E+01 1.78E+01 2.58E+01 6.93E-01 2.72E-01 1.28E-01 6.69E-02 2.35E-02 1.53E-02 1.04E-02 2.32E-03 7.97E-04 3.48E-04 1.77E-04 6.20E-05
0.0 0.5 1.0 2.0 3.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 35.0	4.37E+01 4.32E+01 4.20E+01 3.76E+01 3.16E+01 2.53E+01 1.95E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+00 6.88E-01 3.55E-01 2.23E-01 1.60E-01	5.46E+01 5.37E+01 5.10E+01 4.19E+01 3.14E+01 1.54E+01 1.07E+01 7.59E+00 4.08E+00 3.09E+00 4.08E+01 4.29E-01 1.46E-01 9.78E-02	6.68E+01 6.47E+01 5.88E+01 1.268E+01 1.66E+01 1.06E+01 6.97E+00 3.38E+00 2.44E+00 1.81E+00 5.34E-01 2.41E-01 7.66E-02 4.81E-02	8KEY 7.98E+01 7.51E+01 6.33E+01 3.65E+01 1.95E+01 6.57E+00 6.57E+00 2.75E+00 1.88E+00 1.32E+00 2.55E-01 2.86E-01 2.96E-02 2.12E-02	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 6.54E+00 2.22E+00 9.24E-01 6.41E-01 4.62E-01 1.31E-01 5.11E-02 2.51E-02 1.43E-02 8.94E-03 5.91E-03 4.10E-03	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.03E+00 6.28E-01 4.11E-01 2.02E-01 5.32E-02 2.06E-02 9.89E-03 5.37E-03 3.19E-03	1.32E+02 8.81E+01 4.00E+01 1.05E+01 7.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.15E-01 8.08E-02 2.02E-02 7.40E-03 3.36E-03 1.77E-03 1.03E-03 1.03E-04 4.35E-04	1.70E+02 8.11E+01 2.73E+01 5.58E+00 6.51E-01 3.16E-01 1.74E-01 6.56E-02 4.34E-02 2.98E-02 6.94E-03 2.44E-03 1.09E-03 5.62E-04 3.23E-04 1.32E-04	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-01 6.69E-02 2.35E-02 1.53E-02 1.53E-02 1.04E-02 2.32E-03 7.97E-04 1.77E-04 1.77E-04 1.01E-05 4.05E-05
0.0 0.5 1.0 0.0 3.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 45.0 45.0 45.0 45.0 60.0	4.37E+01 4.32E+01 3.76E+01 3.76E+01 3.16E+01 1.95E+01 1.1E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+00 1.63E+00 1.66E-01 1.20E-01 1.60E-01 1.60E-02 4.09E-02	5.46E+01 5.37E+01 5.19E+01 3.14E+01 2.22E+01 1.54E+01 1.54E+01 7.59E+00 5.50E+00 4.08E+00 3.09E+00 9.59E-01 4.08E-01 2.29E-01 1.46E-01 9.76E-02 4.87E-02 4.87E-02 2.39E-02	6.68E+01 6.47E+01 5.88E+01 1.66E+01 1.66E+01 1.06E+01 6.97E+00 4.78E+00 3.38E+00 2.44E+00 1.81E+00 5.34E-01 2.41E-01 1.31E-01 7.56E-02 4.81E-02 3.25E-02 1.77E-02 1.10E-02	8KEY 7.98E+01 7.51E+01 6.33E+01 3.65E+01 1.95E+01 6.57E+00 6.57E+00 1.88E+00 1.32E+00 2.75E+00 2.86E-01 2.86E-01 2.86E-02 2.12E-02 1.45E-02 1.45E-02 1.77E-03 4.74E-03	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01 1.25E+01 6.54E+00 3.71E+00 2.22E+00 1.40E+00 9.24E-01 6.41E-01 4.62E-01 1.31E-01 5.11E-02 2.51E-02 1.43E-03 5.91E-03	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.03E+00 6.28E-01 2.83E-01 2.02E-01 5.32E-02 9.89E-03 5.37E-03 3.19E-03 1.38E-03	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.15E-01 8.08E-02 2.02E-02 7.40E-03 3.36E-03 1.77E-03 1.03E-03 6.51E-04	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 6.56E-02 4.34E-02 2.98E-02 6.94E-03 2.44E-03 1.09E-03 5.62E-04 2.00E-04	2.52E+02 6.92E+01 1.78E+01 2.58E+01 6.93E-01 2.72E-01 1.28E-01 6.69E-02 2.35E-02 1.53E-02 1.04E-02 2.32E-03 7.97E-04 3.48E-04 1.77E-04 6.20E-05
0.0 0.5 1.0 2.0 3.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 25.0 45.0 45.0 45.0 45.0	4.37E+01 4.32E+01 3.76E+01 3.76E+01 1.95E+01 1.95E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+00 6.88E-01 3.55E-01 2.23E-01 2.23E-01 1.20E-01 9.16E-02 4.09E-02 2.76E-02	5.46E+01 5.37E+01 5.10E+01 4.19E+01 2.22E+01 1.54E+01 1.07E+01 1.07E+00 5.50E+00 4.08E+00 3.09E+00 9.59E-01 2.29E-01 1.46E-01 2.46E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02	6.68E+01 6.47E+01 7.88E+01 1.268E+01 1.66E+01 1.97E+00 3.38E+00 2.44E+00 1.81E+00 5.34E-01 1.31E-01 1.31E-01 2.41E-01 1.31E-02 3.25E-02 2.34E-02 1.77E-02 7.55E-03	8KEY 7.98E+01 7.51E+01 6.33E+01 3.65E+01 1.95E+01 6.57E+00 6.57E+00 1.88E+00 1.32E+00 9.55E-01 2.86E-01 1.21E-01 5.96E-02 2.12E-02 1.45E-02 1.45E-02 1.45E-03 3.20E-03	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01 1.25E+01 6.54E+00 3.71E+00 2.22E+00 1.40E+00 9.24E-01 4.62E-01 1.31E-01 5.11E-02 2.51E-02 1.42E-03 4.10E-03 4.10E-03 1.72E-03 1.12E-03	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.03E+00 1.03E+01 4.11E-01 2.83E-01 2.02E-01 5.32E-02 9.89E-03 3.19E-03 3.19E-03 1.38E-03 9.83E-04 3.47E-04	1.32E+02 8.81E+01 4.00E+01 1.05E+01 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.15E-01 8.08E-02 2.02E-02 7.40E-03 3.36E-03 1.77E-03 1.03E-04 4.35E-04 4.35E-04 9.96E-05	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 1.74E-01 6.56E-02 4.34E-02 2.98E-02 4.34E-02 2.98E-02 4.34E-03 1.02E-04 2.02E-04 2.02E-04 2.02E-04 2.02E-04 2.02E-05 2.82E-05	2.52E+02 6.92E+01 1.78E+01 2.58E+01 2.58E-01 1.28E-01 1.28E-02 3.83E-02 1.53E-02 1.53E-02 1.53E-02 1.54E-04 1.77E-04 1.77E-04 1.77E-04 1.01E-04 6.20E-05 2.77E-05
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 8.0 9.0 10.0 15.0 25.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0 4	4.37E+01 4.32E+01 4.32E+01 3.76E+01 3.16E+01 1.95E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+00 1.63E+01 3.55E-01 2.23E-01 1.60E-01 1.20E-01 9.16E-02 6.99E-02 2.76E-02 2.58E-02	5.46E+01 5.37E+01 5.10E+01 4.19E+01 2.22E+01 1.54E+01 1.07E+01 1.07E+00 5.50E+00 4.08E+00 3.09E+00 4.08E-01 2.29E-01 1.46E-01 2.29E-01 1.46E-02 4.87E-02 4.87E-02 4.87E-02 1.378E-02 1.378E-02 1.378E-02 1.29E-02	6.68E+01 6.47E+01 7.88E+01 1.20E+01 1.66E+01 1.97E+00 3.38E+00 2.44E+00 1.81E+00 5.34E-01 1.31E-01 7.66E-02 3.25E-02 2.34E-02 1.77E-02 1.77E-03 5.57E-03	8KEY 7.98E+01 7.51E+01 6.33E+01 1.95E+01 1.95E+01 1.09E+01 6.57E+00 4.17E+00 2.75E+00 1.88E+00 1.32E+00 9.55E-01 2.86E-01 1.21E-01 5.96E-02 2.12E-02 1.45E-02 1.45E-02 1.77E-03 4.74E-03 2.36E-03 2.36E-03	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 6.54E+00 3.71E+00 1.22E+00 1.24E-01 6.41E-01 4.62E-01 1.31E-01 5.11E-02 2.51E-02 1.43E-03 4.10E-03 2.97E-03 1.72E-03 7.93E-04	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.03E+00 1.03E+00 4.11E-01 2.83E-01 2.02E-01 5.32E-02 9.89E-03 5.37E-03 5.37E-03 2.04E-03 1.38E-04 5.56E-04 2.34E-04	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 7.73E-01 4.30E-01 1.70E-01 1.15E-01 8.08E-02 2.02E-02 7.40E-03 3.36E-03 1.77E-03 1.03E-03 1.03E-04 4.35E-04 4.35E-04 4.36E-05 6.48E-05	1.70E+02 8.11E+01 2.73E+01 5.58E+00 6.51E-01 3.16E-01 1.74E-01 6.56E-02 4.34E-02 2.98E-02 4.34E-03 2.44E-03 1.09E-03 5.62E-04 2.00E-04 1.32E-04 9.07E-05 4.79E-05 1.80E-05	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-02 2.35E-02 1.53E-02 1.53E-02 1.53E-02 1.54E-02 2.32E-03 7.97E-04 3.48E-04 1.77E-04 6.20E-05 4.05E-05 2.77E-05 5.14E-06
0.0 0.5 1.0 2.0 3.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 25.0 45.0 45.0 45.0 45.0	4.37E+01 4.32E+01 3.76E+01 3.76E+01 1.95E+01 1.95E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+00 6.88E-01 3.55E-01 2.23E-01 2.23E-01 1.20E-01 9.16E-02 4.09E-02 2.76E-02	5.46E+01 5.37E+01 5.10E+01 4.19E+01 2.22E+01 1.54E+01 1.07E+01 1.07E+00 5.50E+00 4.08E+00 3.09E+00 9.59E-01 2.29E-01 1.46E-01 2.46E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02	6.68E+01 6.47E+01 7.88E+01 1.268E+01 1.66E+01 1.97E+00 3.38E+00 2.44E+00 1.81E+00 5.34E-01 1.31E-01 1.31E-01 2.41E-01 1.31E-02 3.25E-02 2.34E-02 1.77E-02 7.55E-03	8KEY 7.98E+01 7.51E+01 6.33E+01 3.65E+01 1.95E+01 6.57E+00 6.57E+00 1.88E+00 1.32E+00 9.55E-01 2.86E-01 1.21E-01 5.96E-02 2.12E-02 1.45E-02 1.45E-02 1.45E-03 3.20E-03	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01 1.25E+01 6.54E+00 3.71E+00 2.22E+00 1.40E+00 9.24E-01 4.62E-01 1.31E-01 5.11E-02 2.51E-02 1.42E-03 4.10E-03 4.10E-03 1.72E-03 1.12E-03	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.03E+00 1.03E+01 4.11E-01 2.83E-01 2.02E-01 5.32E-02 9.89E-03 3.19E-03 3.19E-03 1.38E-03 9.83E-04 3.47E-04	1.32E+02 8.81E+01 4.00E+01 1.05E+01 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.15E-01 8.08E-02 2.02E-02 7.40E-03 3.36E-03 1.77E-03 1.03E-04 4.35E-04 4.35E-04 9.96E-05	1.70E+02 8.11E+01 2.73E+01 5.58E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 1.74E-01 6.56E-02 4.34E-02 2.98E-02 4.34E-02 2.98E-02 4.34E-03 1.02E-04 2.02E-04 2.02E-04 2.02E-04 2.02E-04 2.02E-05 2.82E-05	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.289E-02 2.35E-02 1.53E-02 1.53E-02 1.53E-02 1.54E-04 1.77E-04 6.20E-05 4.05E-05 1.44E-05 8.28E-06
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 8.0 9.0 10.0 15.0 25.0 45.0 45.0 45.0 45.0 45.0 45.0 45.0 4	4.37E+01 4.32E+01 4.32E+01 3.76E+01 3.16E+01 1.95E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+00 1.63E+01 3.55E-01 2.23E-01 1.60E-01 1.20E-01 9.16E-02 6.99E-02 2.76E-02 2.58E-02	5.46E+01 5.37E+01 5.10E+01 4.19E+01 2.22E+01 1.54E+01 1.07E+01 1.07E+00 5.50E+00 4.08E+00 3.09E+00 4.08E-01 2.29E-01 1.46E-01 2.29E-01 1.46E-02 4.87E-02 4.87E-02 4.87E-02 1.378E-02 1.378E-02 1.378E-02 1.29E-02	6.68E+01 6.47E+01 5.88E+01 1.20E+01 1.66E+01 1.97E+00 3.38E+00 2.44E+00 1.81E+00 5.34E-01 1.31E-01 7.66E-02 3.25E-02 2.34E-02 1.77E-02 1.77E-03 5.57E-03	8KEY 7.98E+01 7.51E+01 6.33E+01 1.95E+01 1.95E+01 1.95E+00 6.57E+00 2.75E+00 1.88E+00 1.32E+01 2.86E-01 2.86E-01 2.86E-02 2.12E-02 1.45E-02 1.45E-02 1.74E-03 3.20E-03 1.88E-03	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 6.54E+00 3.71E+00 1.22E+00 1.24E-01 6.41E-01 4.62E-01 1.31E-01 5.11E-02 2.51E-02 1.43E-03 4.10E-03 2.97E-03 1.72E-03 7.93E-04	1.10E+02 8.86E+01 5.37E+01 7.30E+00 3.48E+00 1.03E+00 6.28E-01 4.11E-01 2.02E-01 5.32E-02 2.06E-03 3.19E-03 2.04E-03 1.38E-04 5.56E-04 3.47E-04 2.34E-04	1.32E+02 8.81E+01 4.00E+01 1.05E+01 3.74E+00 7.73E-01 4.30E-01 1.70E-01 1.15E-01 8.08E-02 2.02E-02 7.40E-03 3.36E-03 1.77E-03 1.03E-03 1.03E-04 4.35E-04 4.35E-04 4.36E-05 6.48E-05	1.70E+02 8.11E+01 2.73E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 1.74E-01 6.56E-02 4.34E-02 2.98E-03 2.449E-03 2.49E-03 3.25E-04 2.02E-04 1.32E-04 1.32E-05 1.80E-05 1.80E-05	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-02 2.35E-02 1.53E-02 1.53E-02 2.35E-02 1.04E-02 2.37.97E-04 1.77E-04 1.77E-04 6.20E-05 4.05E-05 4.05E-05 7.77E-05 1.44E-06 5.14E-06
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 20.0 45.0 60.0	4.37E+01 4.32E+01 3.76E+01 3.76E+01 3.16E+01 1.95E+01 1.95E+01 1.1E+01 8.35E+00 6.35E+00 1.63E+00 1.63E+01 2.23E-01 1.20E-01 1.20E-01 1.20E-02 2.76E-02 2.77E-02	5.46E+01 5.37E+01 5.19E+01 3.14E+01 2.22E+01 1.54E+01 1.54E+01 1.57E+00 5.50E+00 4.08E+00 3.09E+00 3.09E+01 4.08E-01 2.29E-01 9.78E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02	6.68E+01 6.47E+01 5.8EE+01 1.66E+01 1.66E+01 1.06E+01 1.06E+00 3.38E+00 2.44E+00 1.81E-01 1.31E-01 1.31E-01 1.31E-02 3.34E-02 3.34E-02 1.55E-02 1.55E-02 1.55E-03 4.50E-03	8KEY 7.98E+01 7.51E+01 6.33E+01 1.95E+01 1.95E+01 1.09E+01 6.57E+00 4.17E+00 2.75E+00 1.88E+00 1.32E+00 9.55E-01 2.86E-01 1.21E-01 5.96E-02 2.12E-02 1.45E-02 1.45E-02 1.77E-03 4.74E-03 2.36E-03 2.36E-03	16KEV 9.39E+01 8.37E+01 6.19E+01 2.71E+01 1.25E+01 6.54E+00 3.71E+00 1.40E+00 1.40E+01 4.62E-01 1.31E-01 2.51E-02 1.51E-02 1.51E-02 1.51E-03 7.91E-03 1.72E-03 1.72E-03 1.72E-03 1.72E-04 6.01E-04	1.10E+02 8.86E+01 5.33E+01 1.77E+01 7.30E+00 3.48E+00 1.03E+00 6.28E-01 4.11E-01 2.02E-01 5.32E-02 9.89E-03 5.37E-03 5.37E-03 2.04E-03 1.38E-04 5.56E-04 2.34E-04 2.34E-04	1.32E+02 8.81E+01 4.00E+01 1.05E+01 1.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.15E-02 2.02E-03 3.36E-03 3.36E-03 1.03E-03 1.03E-03 4.35E-04 4.35E-04 4.35E-04 4.35E-04 4.35E-04 4.35E-05 6.48E-05 6.48E-05	1.70E+02 8.11E+01 2.73E+01 5.58E+00 6.51E-01 3.16E-01 1.74E-01 6.56E-02 4.34E-02 2.98E-02 4.34E-03 2.44E-03 1.09E-03 5.62E-04 2.00E-04 1.32E-04 9.07E-05 4.79E-05 1.80E-05	2.52E+02 6.92E+01 1.78E+01 2.58E+01 2.58E-01 2.72E-01 1.28E-02 2.35E-02 1.53E-02 1.53E-02 1.53E-02 1.54E-02 2.32E-03 7.97E-04 1.77E-04 6.20E-05 4.05E-05 2.77E-05 1.44E-06 5.14E-06
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 120.0 45.0 60.0 90.0 10.0	4.37E+01 4.32E+01 4.32E+01 3.76E+01 3.16E+01 1.95E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+01 3.55E-01 2.23E-01 1.60E-01 1.20E-01 9.16E-02 6.99E-02 2.77E-02 2.48E-02 2.48E-02 3.96E-03	5.46E+01 5.37E+01 5.10E+01 4.19E+01 2.22E+01 1.54FE+01 1.54FE+01 1.54FE+00 5.50E+00 4.08E+00 3.09E+00 4.08E-01 2.29E-01 1.46E-01 2.29E-01 1.46E-02 2.378E-02 2.378E-02 3.68E-02 2.378E-02 4.87E-02 3.68E-02	6.68E+01 6.47E+01 7.88E+01 1.66E+01 1.66E+01 1.66E+01 1.97E+00 3.38E+00 2.44E+00 1.81E+01 7.66E-02 3.25E-02 2.37E-02 1.70E-02 1.70E-03 4.50E-03 4.07E-03 4.07E-03 4.42E-03	8KEY 7.98E+01 7.51E+01 6.33E+01 1.95E+01 1.95E+01 1.95E+00 1.75E+00 1.75E+00 1.32E+00 1.32E+01 2.86E-01 2.86E-02 2.12E-02 1.45E-02 1.45E-02 1.45E-03 3.20E-03 1.88E-03 1.60E-03 1.44E-03 1.35E-03	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 6.54E+00 2.22E+00 1.40E+00 9.24E-01 4.62E-01 1.31E-02 8.94E-02 8.94E-03 4.10E-03 2.97E-03 1.72E-03 1.72E-03 1.72E-04 4.80E-04 4.80E-04 4.80E-04 4.80E-04	1.10E+02 8.86E+01 5.37E+01 7.37E+01 7.30E+00 3.48E+00 1.03E+00 1.03E+00 1.03E+01 2.02E-01 2.02E-01 5.32E-02 9.89E-03 3.138E-03 9.83E-04 5.37E-03 2.04E-03 1.38E-04 5.34E-04 1.69E-04 1.28E-04 1.02E-04 8.39E-05	1.32E+02 8.81E+01 4.05E+01 1.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.70E-01 1.70E-01 2.02E-03 3.36E-03 1.77E-03 3.36E-03 1.75E-04 4.35E-04 4.35E-04 4.35E-04 4.35E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05	1.70E+02 8.11E+01 2.73E+00 5.58E+00 6.51E-01 3.16E-01 1.74E-01 1.74E-01 6.56E-02 4.34E-02 2.98E-02 2.98E-02 4.34E-03 1.09E-03 5.62E-04 1.32E-05 1.32E-05 1.80E-05 1.22E-05 1.80E-05 1.22E-05 1.80E-05 1.22E-05 1.22E-06 4.94E-06	2.52E+02 6.92E+01 1.78E+01 2.58E+01 2.72E-01 1.289E-02 2.35E-02 1.53E-02 1.53E-02 1.53E-02 1.53E-02 1.53E-02 1.53E-02 1.53E-02 1.53E-02 1.53E-02 1.77E-04 1.77E-04 6.20E-05 4.05E-05 7.74E-05 8.28E-06 5.14E-06 3.37E-06
0.0 0.5 1.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 20.0 35.0 45.0 60.0 70.0 80.0 10.0	4.37E+01 4.32E+01 3.76E+01 3.76E+01 3.16E+01 1.95E+01 1.98E+01 1.11E+01 8.35E+00 4.89E+00 1.63E+00 1.63E+01 3.55E-01 3.55E-01 3.55E-01 2.23E-01 1.60E-01 1.20E-01 9.16E-02 2.76E-02 2.77E-02 2.48E-02 2.77E-02 2.48E-02 3.96E-03 6.10E-03	5.46E+01 5.37E+01 5.19E+01 3.14E+01 2.22E+01 1.54E+01 1.07E+01 7.59E+00 5.50E+00 4.08E+00 3.09E+01 2.29E-01 2.29E-01 9.78E-02 4.86E-02 2.39E-02 1.29E-02 1.24E-03 7.00E-03 7.00E-03 5.02E-03 1.17E-02	6.68E+01 6.47E+01 5.8EE+01 1.66E+01 1.66E+01 1.66E+00 1.06E+00 2.44E+00 2.44E+00 5.34E-01 1.31E-01 1.31E-01 1.31E-02 3.34E-02 3.34E-02 3.37E-02 4.01E-02 4.02E-03 4.02E-03 4.07E-03 4.07E-03 4.07E-03 4.07E-03 4.07E-03 4.07E-03	8KEY 7.98E+01 7.51E+01 6.33E+01 1.95E+01 1.95E+01 1.95E+00 6.57E+00 6.57E+00 1.88E+00 9.55E-01 2.86E-01 2.86E-02 2.12E-02 1.45E-02 1.45E-02 1.47E-03 3.20E-03 1.86E-03 1.86E-03 1.86E-03 1.86E-03 1.86E-03	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 6.54E+00 3.71E+00 3.71E+00 1.40E+00 1.40E+01 4.62E-01 1.31E-02 1.511E-02 1.41E-02 8.94E-03 5.91E-03 1.72E-03 1.72E-03 1.72E-03 1.72E-03 1.72E-04 4.80E-04 4.80E-04 4.00E-04 3.10E-04	1.10E+02 8.86E+01 5.37E+01 7.30E+00 3.48E+00 1.03E+00 1.03E+01 4.11E-01 2.82E-01 4.11E-01 2.82E-01 5.32E-02 2.06E-03 3.19E-03 3.19E-03 3.19E-03 1.38E-04 5.56E-04 3.47E-04 2.34E-04 1.69E-04 1.02E-05 7.20E-05	1.32E+02 8.81E+01 4.005E+01 1.05E+01 1.74E+00 1.58E+00 7.73E-01 2.62E-01 1.70E-01 1.15E-02 2.02E-02 2.02E-03 1.73E-03 1.73E-03 1.73E-03 1.73E-04 4.35E-04 4.35E-04 4.35E-04 4.35E-05 6.48E-05 6.48E-05 4.48E-05 6.48E-05 6.48E-05 6.48E-05 6.48E-05 6.48E-05 6.48E-05 6.48E-05 6.48E-05	1.70E+02 8.11E+01 2.73E+00 1.65E+00 6.51E-01 3.16E-01 1.74E-01 1.74E-01 1.74E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-03 3.40E-03 1.06E-04 1.02E-04 1.02E-04 1.02E-05 1.80E-05 1.80E-05 1.80E-05 1.80E-06 4.90E-06	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-02 2.35E-02 1.53E-02 1.53E-02 2.35E-02 1.04E-02 2.37E-04 1.77E-04 6.20E-05 4.07E-05 4.07E-05 7.77E-05 1.44E-05 8.37E-06 5.14E-06 5.14E-06 1.21E-06 9.29E-07
0.0 0.5 1.0 0.5 0.0 0.0 0.0 0.0 0.0 0.0 0	4.37E+01 4.32E+01 3.76E+01 3.76E+01 3.16E+01 1.95E+01 1.95E+01 1.11E+01 8.35E+00 4.89E+00 1.63E+00 1.63E+01 2.23E-01 1.20E-01 9.16E-02 4.09E-02 2.76E-02 2.77E-02 2.48E-02 1.46E-02 3.96E-03 3.15E-02	5.46E+01 5.37E+01 5.19E+01 4.19E+01 1.52E+01 1.57E+00 1.57E+00 5.50E+00 4.08E+00 3.09E+00 4.08E-01 2.29E-01 1.46E-02 4.87E-02 4.87E-02 4.87E-02 4.68E-02 7.58E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02	6.68E+01 6.47E+01 5.88E+01 1.66E+01 1.66E+01 1.67E+00 3.38E+00 2.44E+00 1.81E-01 1.36E-02 3.25E-02 2.34E-02 2.34E-02 3.25E-02 2.37E-02 1.77E-02 7.55E-03 4.05E-03 4.05E-03 4.05E-03 5.61E-03	8KEY 7.98E+01 7.51E+01 3.65E+01 1.95E+01 1.95E+01 1.95E+00 2.75E+00 1.88E+00 1.32E+01 2.86E-01 2.86E-01 2.86E-02 2.12E-02 1.45E-02 1.45E-02 1.45E-03 1.60E-03 1.60E-03 1.35E-03 1.35E-03 1.35E-03	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 6.54E+00 3.71E+00 1.40E+00 1.40E+01 4.62E-01 1.31E-02 1.511E-02 2.51E-02 8.94E-03 5.91E-03 4.10E-03 1.72E-03 1.72E-03 1.72E-04 4.80E-04 4.80E-04 4.80E-04 4.80E-04 4.80E-04 4.80E-04 4.80E-04 4.80E-04 4.80E-04 4.80E-04 4.80E-04 4.80E-04 4.80E-04 4.80E-04	1.10E+02 8.86E+01 5.37E+01 7.30E+00 3.48E+00 1.03E+001 1.03E+01 2.83E-01 2.83E-01 2.83E-01 2.83E-01 3.2E-02 2.86E-03 3.19E-03 3.19E-03 3.19E-03 3.19E-04 3.47E-04 2.34E-04 1.28E-04 1.28E-04 1.28E-04 1.28E-05 6.38E-05 6.38E-05	1.32E+02 8.81E+01 4.005E+01 1.05E+01 1.74E+00 1.58E+01 4.30E-01 1.70E-01 1.70E-01 1.70E-01 2.02E-03 3.36E-01 2.02E-03 3.37E-03 1.03E-04 4.30E-04 4.30E-04 4.30E-05 6.48E-05 6.48E-05 3.28E-05 6.48E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05	1.70E+02 8.11E+01 2.73E+00 1.65E+00 6.51E-01 3.164E-01 1.74E-01 1.74E-01 6.56E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-03 3.44E-03 3.2.44E-03 3.2.44E-04 4.32E-04 4.32E-04 1.32E-05 1.82E-05 1.82E-05 1.82E-05 1.82E-06 6.38E-06 4.94E-06 3.37E-06	2.52E+02 6.92E+01 1.78E+01 2.58E+01 2.58E+01 6.69E-02 2.35E-02 1.53E-02 1.53E-02 1.53E-02 2.37.94E-04 4.01E-04 6.20E-05 4.05E-05 4.05E-05 7.74E-06 3.37E-06 5.14E-06 3.37E-06 1.64E-06 1.21E-07 7.42E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 20.0 45.0 60.0 70.0 80.0 10.0	4.37E+01 4.32E+01 3.76E+01 3.16E+01 2.53E+01 1.95E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+01 3.55E-01 2.23E-01 2.23E-01 2.23E-01 2.23E-02 2.76E-02 2.76E-02 2.76E-02 2.77E-02 2.48E-02 3.96E-03 3.15E-02 7.99E-02	5.46E+01 5.37E+01 5.10E+01 4.14E+01 2.22E+01 1.07E+01 1.07E+00 5.50E+00 4.08E+00 3.09E+00 4.08E+01 2.246E-01 2.246E-01 2.246E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 3.63E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02 2.77E-02	6.68E+01 6.47E+01 5.88E+01 1.66E+01 1.66E+01 1.66E+00 3.38E+00 2.44E+00 1.81E-01 2.41E-01 1.31E-01 2.41E-01 1.31E-02 3.25E-02 2.34E-02 1.70E-02 3.25E-03 4.07E-03	8KEY 7.98E+01 7.51E+01 3.65E+01 1.95E+01 1.95E+01 6.57E+00 2.75E+00 1.88E+00 1.32E+01 2.86E+01 2.86E+01 1.21E-01 5.96E-02 2.12E-02 1.45E-02 1.45E-03 3.20E-03 1.88E-03 1.88E-03 1.35E-03 1.35E-03 1.35E-03 1.35E-03	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 6.54E+00 3.71E+00 1.40E+00 9.24E-01 4.62E - 01 1.31E-02 2.51E-02 8.94E-03 5.91E-03 4.10E-03 1.72E-03 1.72E-03 1.72E-03 1.72E-04 4.80E-04 4.80E-04 4.80E-04 2.84E-04 2.84E-04 2.86E-04	1.10E+02 8.86E+01 5.37E+01 7.30E+00 3.48E+00 1.03E+00 1.03E+00 1.03E+01 4.11E-01 2.83E-01 2.82E-01 5.32E-02 9.89E-03 3.138E-03 9.83E-04 1.38E-04 1.38E-04 1.38E-04 1.38E-04 1.38E-04 1.38E-04 1.38E-05 5.39E-05 5.39E-05 5.39E-05 5.39E-05 5.38E-05 5.38E-05 5.38E-05 5.38E-05 5.38E-05 5.38E-05 5.38E-05	1.32E+02 8.81E+01 4.005E+01 1.05E+01 1.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.70E-01 1.70E-01 2.02E-03 3.36E-03 1.77E-03 6.51E-04 4.35E-04 4.35E-04 4.35E-04 4.35E-05 6.48E-05 3.28E-05 4.48E-05 1.70E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05	1.70E+02 8.11E+01 2.73E+00 1.73E+00 5.58E+00 6.51E-01 3.164E-01 1.74E-01 1.74E-01 6.56E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-03 5.62E-04 4.02E-04 1.32E-05 1.80E-05 1.80E-05 1.80E-05 1.80E-06 4.94E-06 4.94E-06 4.94E-06 4.94E-06 4.93E-06 4.93E-06 4.93E-06 4.93E-06 4.93E-06	2.52E+02 6.92E+01 1.78E+01 2.58E+01 2.58E-01 2.72E-01 1.289E-02 2.35E-02 1.53E-02 1.53E-02 1.54E-02 2.37E-04 1.71E-04 6.20E-05 4.05E-05 2.77E-05 1.44E-06 3.37E-06 5.14E-06 3.37E-06 1.64E-06 1.21E-06 9.29E-07 6.13E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	4.37E+01 4.32E+01 3.76E+01 3.16E+01 2.53E+01 1.95E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+01 3.55E-01 2.23E-01 1.60E-01 1.20E-01 9.16E-02 6.99E-02 2.77E-02 2.48E-02 2.77E-02 2.48E-02 3.15E-02 7.99E-03 6.10E-03 3.15E-02 7.99E-02 1.39E-01	5.46E+01 5.37E+01 5.10E+01 4.19E+01 2.22E+01 1.07E+01 1.07E+00 5.50E+00 4.08E+00 3.09E+00 4.08E-01 2.29E-01 1.46E-01 2.29E-01 1.46E-02 4.87E-02 4.87E-02 4.87E-02 3.68E-02 1.29E-03 7.8E-02 1.29E-03 7.8E-02 1.29E-03 7.8E-02 3.68E-02 2.378E-02 3.68E-02 2.378E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02 3.68E-02	6.68E+01 6.47E+01 5.88E+01 1.66E+01 1.66E+01 1.66E+01 1.66E+00 3.38E+00 2.44E+00 1.81E+00 1.81E-01 1.66E-02 3.25E-02 2.37E-02 1.77E-02 1.77E-03 4.07E-03 4.07E-03 4.07E-03 4.07E-03 4.07E-03 4.07E-03 4.07E-03 6.23E-03 6.23E-03 6.72E-03	8KEY 7.98E+01 7.51E+01 3.65E+01 1.95E+01 1.95E+00 1.05E+00 1.75E+00 1.75E+00 1.32E+01 1.27E-01 2.86E-02 2.12E-02 1.45E-02 1.45E-02 1.45E-03 1.66E-03 1.66E-03 1.66E-03 1.66E-03 1.66E-03 1.67E-03 1.67E-03 1.27E-03 1.27E-03	16KEV 9.39E+01 8.37E+01 2.71E+01 1.25E+01 5.71E+00 2.22E+00 1.40E+00 9.24E-01 4.62E-01 1.51E-02 8.94E-03 5.11E-02 8.94E-03 1.12E-03 1.12E-03 1.12E-03 1.12E-03 1.12E-04 2.97E-03 1.12E-04 4.80E-04 4.80E-04 3.10E-04 2.66E-04 2.55E-04	1.10E+02 8.86E+01 5.37E+01 7.30E+00 3.48E+00 1.03E+00 1.03E+00 1.03E+00 1.03E+00 2.02E-01 2.02E-01 5.32E-01 2.06E-02 9.87E-03 3.1.38E-04 5.37E-03 2.04E-03 1.38E-04 2.04E-03 1.38E-04 2.04E-04 2.04E-05 5.47E-05 6.38E-05 5.47E-05	1.32E+02 8.81E+01 4.05E+01 1.05E+01 1.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.70E-01 1.70E-01 2.02E-03 3.36E-03 1.77E-03 3.36E-03 1.75E-04 4.35E-04 4.35E-04 4.35E-04 1.65E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05 4.48E-05	1.70E+02 8.11E+01 2.73E+00 5.58E+00 6.51E-01 3.164E-01 1.74E-01 16.56E-02 4.34E-02 2.98E-02 4.34E-02 2.98E-03 2.44E-03 1.062E-04 2.062E-04 1.32E-04 9.07E-05 1.80E-05 1.80E-05 1.80E-05 1.80E-05 1.80E-05 1.80E-05 1.80E-05 1.80E-06 4.94E-06 4.94E-06 4.94E-06 4.94E-06 4.94E-06 4.94E-06 2.93E-06 2.93E-06 2.93E-06	2.52E+02 6.92E+01 1.78E+01 2.58E+01 2.58E-01 2.72E-01 1.28E-02 2.35E-02 1.53E-02 1.53E-02 1.53E-02 1.54E-02 2.37E-04 1.77E-04 1.77E-04 6.20E-05 2.77E-05 1.44E-06 3.37E-06 5.14E-06 3.37E-06 5.14E-06 7.42E-07 7.42E-07 7.42E-07 7.42E-07 7.42E-07 7.42E-07
0.0 0.5 1.0 2.0 3.0 4.0 5.0 7.0 8.0 9.0 10.0 20.0 45.0 60.0 70.0 80.0 10.0	4.37E+01 4.32E+01 3.76E+01 3.16E+01 2.53E+01 1.95E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+01 3.55E-01 2.23E-01 2.23E-01 2.23E-01 2.23E-02 2.76E-02 2.76E-02 2.76E-02 2.77E-02 2.48E-02 3.96E-03 3.15E-02 7.99E-02	5.46E+01 5.37E+01 5.10E+01 4.14E+01 2.22E+01 1.07E+01 1.07E+00 5.50E+00 4.08E+00 3.09E+00 4.08E+01 2.246E-01 2.246E-01 2.246E-02 4.87E-02 4.87E-02 4.87E-02 4.87E-02 3.63E-02 1.73E-02 1.73E-02 1.73E-02 1.73E-02 2.77E-02	6.68E+01 6.47E+01 5.88E+01 1.66E+01 1.66E+01 1.66E+00 3.38E+00 2.44E+00 1.81E-01 2.41E-01 1.31E-01 2.41E-01 1.31E-02 3.25E-02 2.34E-02 1.70E-02 3.25E-03 4.07E-03	8KEY 7.98E+01 7.51E+01 3.65E+01 1.95E+01 1.95E+01 6.57E+00 2.75E+00 1.88E+00 1.32E+01 2.86E+01 2.86E+01 1.21E-01 5.96E-02 2.12E-02 1.45E-02 1.45E-03 3.20E-03 1.88E-03 1.88E-03 1.35E-03 1.35E-03 1.35E-03 1.35E-03	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 6.54E+00 3.71E+00 1.40E+00 9.24E-01 4.62E - 01 1.31E-02 2.51E-02 8.94E-03 5.91E-03 4.10E-03 1.72E-03 1.72E-03 1.72E-03 1.72E-04 4.80E-04 4.80E-04 4.80E-04 2.84E-04 2.84E-04 2.86E-04	1.10E+02 8.86E+01 5.37E+01 7.30E+00 3.48E+00 1.03E+00 1.03E+00 1.03E+01 4.11E-01 2.83E-01 2.82E-01 5.32E-02 9.89E-03 3.138E-03 9.83E-04 1.38E-04 1.38E-04 1.38E-04 1.38E-04 1.38E-04 1.38E-04 1.38E-05 5.39E-05 5.39E-05 5.39E-05 5.39E-05 5.38E-05 5.38E-05 5.38E-05 5.38E-05 5.38E-05 5.38E-05 5.38E-05	1.32E+02 8.81E+01 4.005E+01 1.05E+01 1.74E+00 1.58E+00 7.73E-01 4.30E-01 1.70E-01 1.70E-01 1.70E-01 2.02E-03 3.36E-03 1.77E-03 6.51E-04 4.35E-04 4.35E-04 4.35E-04 4.35E-05 6.48E-05 3.28E-05 4.48E-05 1.70E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05 1.46E-05	1.70E+02 8.11E+01 2.73E+00 1.73E+00 5.58E+00 6.51E-01 3.164E-01 1.74E-01 1.74E-01 6.56E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-03 5.62E-04 4.02E-04 1.32E-05 1.80E-05 1.80E-05 1.80E-05 1.80E-06 4.94E-06 4.94E-06 4.94E-06 4.94E-06 4.93E-06 4.93E-06 4.93E-06 4.93E-06 4.93E-06	2.52E+02 6.92E+01 1.78E+01 2.58E+00 6.93E-01 2.72E-01 1.28E-02 2.35E-02 1.53E-02 2.35E-02 1.04E-02 2.37E-04 1.77E-04 6.05E-05 4.07E-05 4.07E-05 7.74E-05 8.14E-06 5.14E-06 5.14E-06 9.29E-07 7.42E-07 6.29E-07 7.42E-07 6.29E-07 7.42E-07 6.29E-07 4.74E-07
0.0 0.5 1.0 0.5 1.0 0.0 1.0 0.0 1.0 0.0 1.0 0.0 0	4.37E+01 4.32E+01 3.76E+01 3.76E+01 2.53E+01 1.98E+01 1.11E+01 8.35E+00 6.35E+00 4.89E+00 1.63E+01 3.55E-01 3.55E-01 2.23E-01 1.60E-01 9.16E-02 2.76E-02 2.76E-02 2.77E-02 2.48E-02 2.77E-02 2.48E-02 3.96E-03 3.15E-02 7.99E-02 1.39E-01	5.46E+01 5.37E+01 5.19E+01 3.14E+01 1.9E+01 1.9FE+00 1.07E+00 5.50E+00 4.08E+00 3.09E+00 3.09E-01 4.08E-01 2.24E-01 9.78E-02 4.86E-02 2.36SE-02 1.29E-03 7.00E-03 5.00E-03 7.00E-03 5.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03 7.00E-03	6.68E+01 6.47E+01 5.82E+01 1.66E+01 1.66E+01 1.66E+00 1.67E+00 3.38E+00 2.44E+00 1.31E-01 1.31E-01 1.31E-02 2.34E-02 2.34E-02 2.34E-03 4.61E-02 2.34E-03 4.61E-02 3.38E+00 5.34E-00 3.38E+00 5.34E-00 3.38E+	8KEY 7.98E+01 7.51E+01 3.65E+01 1.95E+01 1.95E+00 1.95E+00 1.95E+00 1.32E+00 1.32E+00 1.32E+01 2.75E+00 1.32E+01 2.75E+00 1.32E+01 1.32E-01 2.46E-02 1.46E-02 1.474E-03 3.26E-03 1.66E-03 1.66E-03 1.35E-03 1.47E-03 1.27E-03 1.27E-03	16KEV 9.39E+01 8.37E+01 6.19E+01 1.25E+01 1.25E+00 2.71E+00 3.71E+00 1.40E+00 1.40E+00 1.40E+01 1.51E-02 1.40E-01 1.51E-02 1.40E-01 1.51E-02 1.40E-01 1.51E-02 1.40E-01 1.51E-02 1.40E-01 1.51E-02 1.40E-01 1.51E-02 1.40E-01 1.51E-02 1.40E-01 1.51E-02 1.40E-01 1.51E-02 1.40E-01 1.51E-02 1.40E-01 1.51E-02 1.40E-03 1.72E-03 1.72E-04	1.10E+02 8.86E+01 5.37E+01 7.30E+00 3.48E+00 1.03E+01 1.03E+01 4.11E-01 2.82E-01 4.11E-01 2.82E-02 5.32E-02 5.32E-03 3.19E-03 3.19E-03 3.19E-03 3.19E-03 1.38E-04 4.16E-04 1.28E-04 1.38E-04 5.56E-04 1.69E-04 1.02E-05 5.36E-05 5.47E-05 5.36E-05 5.47E-05 5.36E-05 5.36E-05 5.36E-05 5.36E-05 5.36E-05 5.36E-05 5.36E-05 5.36E-05 5.36E-05	1.32E+02 8.81E+01 4.005E+01 1.05E+01 1.74E+00 1.58E+01 4.30E-01 1.70E-01 1.15E-02 2.62E-01 1.70E-01 2.62E-01 1.70E-01 2.62E-01 1.70E-01 3.36E-03 3.37E-03 3.37E-03 4.35E-04 4.35E-04 4.35E-04 4.35E-05 6.48E-05 6.48E-05 1.70E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05 1.30E-05	1.70E+02 8.11E+01 2.73EE+00 1.65EE+00 6.51E-01 1.74E-01 1.74E-01 1.74E-02 4.34E-02 4.34E-02 4.34E-02 4.34E-03 1.06E-02 4.34E-03 1.06E-02 4.34E-03 1.06E-04 1.07E-05 1.07E-05 1.07E-05 1.07E-05 1.07E-05 1.07E-06 4.79E-05 1.07E-06 4.37E-06 6.38E-06 4.90E-06 3.37E-06 4.90E-06 2.61E-06 2.62E-06	2.52E+02 6.92E+01 1.78E+01 2.58E+01 2.58E-01 2.72E-01 1.28E-02 2.35E-02 1.53E-02 1.53E-02 1.53E-02 1.54E-02 2.37E-04 1.77E-04 1.77E-04 6.20E-05 2.77E-05 1.44E-06 3.37E-06 5.14E-06 3.37E-06 5.14E-06 7.42E-07 7.42E-07 7.42E-07 7.42E-07 7.42E-07 7.42E-07

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

			,	,	1				
				XENON.	Z=54				
ANGLE	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
0.0	3.74E+01	4.82E+01	6.06E+01	7.40E+01	8.85E+01	1.05E+02	1.28E+02	1.56E+02	2.46E+82
0.5	3.71E+01	4.77E+01	5.93E+01	7.11E+01	8.21E+01	9.11E+01	9.67E+01	9.64E+01	8.68E+01
1.0	3.65E+01	4.61E+01	5.57E+01	6.34E+01	6.65E+01	6.21E+01	4.965+01	3.33E+01	1.99E+01
2.0	3.395+01	4.03E+01	4.39E+01	4.18E+01	3.325+01	2.14E+01	1.18E+01	6.08E+00	2.94E+00
3.0	3.00E+01	3.27E+01	3.07E+01	2.37E+01	1.49E+01	8.04E+00	4.05E+00	1.875+00	7.83E-01
4.0	2.55E+01	2,48E+01	2.00E+01	1.30E+01	7.23E+00	3.72E+00	1.75E+00	7.35E-01	3.02E-01
5.0	2.09E+01	1.80E+01	1.26E+01	7.39E+00	3.96E+00	1.96E+00	8.66E-01	3.52E-01	1.42E-01
6.0	1.66E+01	1.27E+01	8.04E+00	4.51E+00	2.37E+00	1.13E+00	4.78E-01	1.93E-01	7.55E-02
7.0	1.29E+01	8,93E+00	5.30E+00	2.93E+00	1.50E+00	6.91E-01	2.89E-01	1.15E-01	4.35E-02
8.0	9.82E+00	6.315+88	3.65E+00	1.99E+88	9.985-01	4.51E-01	1.87E-01	7.30E-02	2.68E-02
9.0	7.44E+00	4.54E+00	2.61E+00	1.41E+00	6.92E-01	3.10E-01	1.26E-01	4.85E-02	1.75E-02
10.0	5.63E+00	3.36E+00	1.93E+00	1.02E+00	4.99E-01	2.21E-01	8.89E-02	3.35E-02	1.19E-02
15.0	1.74E+00	1.06E+00	5.72E-01	3.01E-01	1.43E-01	5.83E-02	2.24E-02	7.89E-03	2.67E-03
20.0	7.86E-01	4.49E-81	2.49E-01	1.31E-01	5.64E-02	2.24E-02	8.31E-03	2.79E-03	9.23E-04
25.0	4.135-01	2.38E-01	1.37E-01	6.63E-02	2.72E-02	1.08E-02	3.81E-03	1.25E-03	4.06E-04
30.0	2.44E-01	1.50E-01	8.32E-02	3.73E-02	1.54E-02	5.96E-03	2.01E-03	6.49E-04	2.08E-04
35.0	1.65E-01	1.02E-01	5.32E-02	2.32E-02	9.64E-03	3.57E+03	1.18E-03	3.75E-04	1.19E-04
40.0	1.23E-01	7.17E-02	3.61E-02	1.56E-02	6.43E-03	2.29E-03	7.46E-04	2.34E-04	7.35E-05
45.0	9.54E-02	5.22E-02	2.59E-02	1.12E-02	4.50E-03	1.56E-03	5.01E-04	1.55E-04	4.82E-05
50.0	7.505-02	3.95E-02	1.94E-02	8.31E-03	3.27E-03	1.11E-03	3.52E-04	1.07E-04	3.31E-05
60.0	4.47E-02	2.58E-02	1.21E-02	5.08E-03	1.92E-03	6.32E-04	1.93E-04	5.71E-05	1.73E-05
70.0	2.70E-02	1.91E-02	8.15E-03	3.44E-03	1.25E-03	4.00E-84	1.18E-04	3.39E-05	1.01E-05
80.0	2.35E-02	1.48E-02	5.89E-03	2.55E-03	8.95E-04	2.74E-04	7.74E-05	2-17E-05	6-28E-06
90.0	2.89E-02	1.11F-02	4.62E-03	2.05E-03	6.86E-04	1.99E-04	5.42E-05	1.486-05	4.14E-06
30.0	200 32 02	10111	40000 00	20022 00	34332 34	10/32 04	, , , , , , , , , , , , , , , , , , ,	20 4012 05	10112 00
100.0	3.12E-02	7.83E-03	4.09E-03	1.78E-83	5.56E-04	1.53E-04	4.00E-05	1.05E-05	2.85E-06
110.0	2.23E-02	5.76E-03	4.16E-03	1.63E-03	4.72E-04	1.23E-04	3.105-05	7.81E-06	2.03E-06
120.0	7.05E-03	6.35E-03	4.71E-03	1.57E-03	4.16E-04	1.03E-04	2.50E-05	6.07E-06	1.50E-06
130.0	2.61E-03	1.09E-02	5.59E-03	1.55E-03	3.78E-04	8.87E-05	2.10E-05	4.94E-06	1.16E-06
140.0	2.63E-02	1.98E-02	6.62E-03	1.56E-03	3.51E-04	7.93E-05	1.82E-05	4.17E-06	9.29E-07
150.0	8.19E-02	3.18E-02	7.65E-03	1.58E-03	3.34E-04	7.28E-05	1.63E-05	3.63E-06	7.68E-07
160.0	1.55E-01	4.41E-02	8.50E-03	1.60E-03	3.22E-04	6.87E-05	1.51E-05	3.24E-06	6.57E-07
170.0	2.168-01	5.34E-02	9.06E-03	1.62E-03	3.16E-04	6.63E-05	1.45E-05	3.00E-06	5.91E-07
	2.40E-01	5.68E-02	9.26E-03	1.62E-03	3.14E-04	6.58E-05	1.43E-05	2.918-86	5.69E-07
180.0 Total	2.79E+00	2.00E+00	1.39E+00	9.33E-01	6.04E-01	3.79E-01	2.35E-01	1.50E-01	1.02E-01
									1.60E-04
TRANS	5.89E-01	2.59E-01	1.03E-01	3.79E-02	1.325-02	4.46E-03	1.46E-03	4.78E-04	1.00004
TRANS	5.89E-U1	2.59E-01	1.03E-01	3.791-02	1.325-02	4.466-03	1,466-03	4.705-04	1.000-04
TRANS	5.89E-U1	2.59E-01	1.036-01			4.466-03	1.486-03	4.702-04	1.602-04
				TANTAL	UM, Z=73				
ANGLE	1KEV	2KEV	4KEV	TANTAL 8KEV	UM, Z=73 16KEV	32KEV	64KEV	128KEV	256KEV
ANGLE 0.0	1KEV 5•59E+01	2KEV 5.88E+01	4KEV 8.32E+01	TANTAL 8KEV 9.94E+01	UM, Z=73 16KEV 1.18E+02	32KEV 1.41E+02	64KEV 1.72E+02	128KEV 2•26E+02	256KEV 3•38E+02
ANGLE 0.0 0.5	1KEV 5•59E+01 5•52E+01	2KEV 5.88E+01 6.74E+01	4KEV 8.32E+01 8.01E+01	TANTAL 8KEV 9.94E+01 9.27E+01	UM, Z=73 16KEV 1.18E+02 1.03E+02	32KEV 1.41E+02 1.10E+02	64KEV 1.72E+02 1.10E+02	128KEV 2•26E+02 1•01E+02	256KEV 3.38E+02 8.81E+01
ANGLE 0.0 0.5 1.0	1KEV 5.59E+01 5.52E+01 5.35E+01	2KEV 5.88E+01 6.74E+01 6.35E+01	4KEV 8.32E+01 8.01E+01 7.18E+01	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01	32KEV 1.41E+02 1.10E+02 6.31E+01	64KEV 1.72E+02 1.10E+02 4.82E+01	128KEV 2.26E+02 1.01E+02 3.47E+01	256KEV 3.38E+02 8.81E+01 2.43E+01
ANGLE 0.0 0.5 1.0 2.0	1KEV 5.59E+01 5.59E+01 5.35E+01 4.71E+01	2KEV 5.88E+01 6.74E+01 6.35E+01 5.07E+01	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00
ANGLE 0.0 0.5 1.0 2.0 3.0	1KEV 5.59E+01 5.35E+01 5.35E+01 4.71E+01 3.87E+01	2KEV 5.88E+01 6.74E+01 6.35E+01 5.07E+01 3.65E+01	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 2.96E+01	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 2.11E+01	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 8.67E+00	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+G0 2.60E+00	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00
ANGLE 0.0 0.5 1.0 2.0 3.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 3.00E+01	2KEV 5.88E+01 6.74E+01 6.35E+01 5.07E+01 3.65E+01 2.48E+01	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 2.96E+01 1.77E+01	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 2.11E+01 1.16E+01	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 7.29E+00	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 8.67E+00 4.26E+00	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 2.27E+00	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+G0 2.60E+00 1.10E+00	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 1.24E+00 4.76E-01
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 3.00E+01 2.25E+01	2KEV 6.88E+01 6.74E+01 6.35E+01 5.07E+01 3.65E+01 1.66E+01	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 2.96E+01 1.77E+01 1.10E+01	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 2.11E+01 1.16E+01 6.95E+00	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 4.39E+00 4.17E+00	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 8.67E+00 4.26E+00 2.32E+00	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+00	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 1.24E+00 4.76E-01 2.22E-01
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0	1KEV 5-59E+01 5-52E+01 5-35E+01 4-71E+01 3-87E+01 3-00E+01 2-25E+01 1-65E+01	2KEV 6.88E+01 6.74E+01 6.35E+01 5.07E+01 3.65E+01 1.66E+01 1.13E+01	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.77E+01 1.10E+01 7.16E+00	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 2.11E+01 1.16E+01 6.95E+00 4.39E+00	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 4.17E+00 2.55E+00	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 8.67E+00 4.26E+00 2.32E+00 1.38E+00	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+00 6.74E-01	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 2.92E-01	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 1.24E+00 4.76E-01 2.22E-01 1.18E-01
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 2.25E+01 1.65E+01 1.21E+01	2KEV 5.88E+01 6.7E+01 5.07E+01 3.65E+01 2.48E+01 1.56E+01 1.13E+01 7.84E+00	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 2.96E+01 1.77E+01 1.10E+01 7.16E+00 4.85E+00	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 2.11E+01 1.16E+01 6.95E+00 4.39E+00 2.91E+00	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 7.29E+00 4.17E+00 2.55E+00 1.65E+00	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 8.67E+00 4.26E+00 2.32E+00 1.38E+00 8.74E-01	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+00 6.74E-01 4.12E-01	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 2.92E-01 1.74E-01	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 1.24E+00 4.76E-01 2.22E-01 1.18E-01 6.87E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 3.00E+01 2.25E+01 1.65E+01 1.21E+01 8.91E+00	2KEV 5.88E+01 6.74E+01 5.37E+01 3.65E+01 2.48E+01 1.13E+01 7.84E+00 5.60E+00	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 2.96E+01 1.77E+01 1.10E+01 7.16E+00 3.40E+00	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 2.11E+01 1.16E+01 6.39E+00 4.39E+00 2.00E+00	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 7.29E+00 4.17E+00 2.55E+00 1.65E+00 1.12E+00	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 8.67E+00 4.26E+00 2.32E+00 1.38E+00 1.38E+00 5.82E-01	64KEV 1.72E+02 1.10E+02 4.02E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+00 6.74E-01 4.12E-01 2.68E-01	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 2.92E-01 1.74E-01 1.11E-01	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 1.24E+00 4.76E-01 2.22E-01 1.18E-01 6.87E-02 4.28E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 3.00E+01 2.25E+01 1.65E+01 1.21E+01 6.66E+00	2KEV 5.88E+01 6.74E+01 6.35E+01 5.07E+01 3.65E+01 1.66E+01 1.13E+01 7.84E+00 4.10E+00	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.77E+01 1.10E+01 7.16E+00 4.85E+00 2.45E+00	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 1.16E+01 6.95E+00 4.39E+00 2.91E+00 1.43E+00	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 7.29E+00 4.17E+00 2.55E+00 1.65E+00 7.95E-01	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 8.67E+00 4.26E+00 2.32E+00 1.38E+00 8.74E-01 4.04E-01	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+00 6.74E-01 4.12E-01 1.83E-01	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 2.92E-01 1.74E-01 7.40E-02	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 4.76E-01 2.22E-01 1.18E-01 6.87E-02 2.81E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 3.00E+01 2.25E+01 1.65E+01 1.21E+01 8.91E+00	2KEV 5.88E+01 6.74E+01 5.37E+01 3.65E+01 2.48E+01 1.13E+01 7.84E+00 5.60E+00	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 2.96E+01 1.77E+01 1.10E+01 7.16E+00 3.40E+00	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 2.11E+01 1.16E+01 6.39E+00 4.39E+00 2.00E+00	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 7.29E+00 4.17E+00 2.55E+00 1.65E+00 1.12E+00	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 8.67E+00 4.26E+00 2.32E+00 1.38E+00 1.38E+00 5.82E-01	64KEV 1.72E+02 1.10E+02 4.02E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+00 6.74E-01 4.12E-01 2.68E-01	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 2.92E-01 1.74E-01 1.11E-01	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 1.24E+00 4.76E-01 2.22E-01 1.18E-01 6.87E-02 4.28E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 1.65E+01 1.21E+01 8.91E+00 5.66E+00	2KEV 6.88E+01 6.74E+01 6.35E+01 5.07E+01 3.65E+01 1.66E+01 1.13E+01 7.84E+00 5.60E+00 4.10E+00 3.06E+00	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.76E+01 1.10E+01 7.16E+00 4.85E+00 3.40E+00 2.45E+00	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 2.11E+01 1.16E+01 6.95E+00 2.91E+00 2.00E+00 1.43E+00	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 1.39E+00 4.17E+00 2.55E+00 1.65E+00 1.12E+00 7.95E-01 5.80E-01	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 8.67E+00 2.32E+00 1.38E+00 8.74E-01 5.82E-01 4.04E-01 2.91E-01	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+00 6.74E-01 4.12E-01 2.68E-01 1.83E-01	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 5.36E-01 2.92E-01 1.74E-01 1.11E-01 7.40E-02 5.13E-02	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 1.24E+00 4.76E-01 2.22E-01 1.18E-01 6.87E-02 4.28E-02 2.81E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 3.00E+01 2.25E+01 1.65E+01 1.21E+01 8.91E+00 5.05E+00	2KEV 5.88E+01 6.74E+01 5.37E+01 3.67E+01 3.65E+01 1.66E+01 1.13E+01 7.84E+00 5.60E+00 4.10E+00 3.06E+00	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.77E+01 1.10E+00 7.16E+00 3.40E+00 2.45E+00 1.81E+00	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 2.11E+01 6.95E+00 4.39E+00 2.00E+00 1.43E+00 1.05E+00 3.20E-01	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 7.29E+00 4.17E+00 2.55E+00 1.65E+00 1.12E+00 7.95E+01 5.80E-01	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 2.05E+00 4.26E+00 2.32E+00 1.38E+00 1.38E+00 1.38E+01 4.04E-01 2.91E-01 8.36E-02	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+01 4.12E-01 2.68E-01 1.83E-01 1.30E-01 3.33E-02	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 2.92E-01 1.74E-01 1.11E-01 7.40E-02 5.13E-02	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+0 1.24E+00 4.76E-01 2.22E-01 1.18E-01 4.28E-02 2.81E-02 1.93E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 1.65E+01 1.21E+01 1.91E+00 5.66E+00 5.05E+00	2KEV 5.88E+01 6.74E+01 6.35E+01 3.65E+01 2.48E+01 1.56E+01 1.13E+01 7.84E+00 4.10E+00 3.06E+00 9.32E-01 4.12E-01	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.77E+01 1.10E+01 7.16E+00 4.85E+00 3.40E+00 2.45E+00 1.81E+00	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 2.11E+01 1.16E+01 6.95E+00 4.39E+00 2.91E+00 2.91E+00 1.43E+00 1.05E+00 3.20E-01 1.40E-01	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 7.29E+00 4.17E+00 2.55E+00 1.65E+00 1.12E+00 7.95E-01 5.80E-01 1.72E-01 7.63E-02	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 8.67E+00 4.26E+00 2.32E+00 1.38E+00 8.74E-01 4.04E-01 2.91E-01 8.36E-02 3.31E-02	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+00 6.74E-01 4.12E-01 1.63E-01 1.30E-01 3.33E-02 1.23E-02	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 2.92E-01 1.74E-01 1.74E-01 7.40E-02 5.13E-02	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 4.76E-01 2.22E-01 1.18E-01 6.87E-02 2.81E-02 1.93E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.00E+01 2.25E+01 1.65E+01 1.21E+01 6.66E+00 5.05E+00 1.58E+00 6.72E-01 3.69E-01	2KEV 6.88E+01 6.74E+01 6.35E+01 5.07E+01 3.65E+01 1.56E+01 1.13E+01 7.84E+00 5.60E+00 4.10E+00 3.06E+00 9.32E-01 4.12E-01 2.24E-01	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 2.96E+01 1.10E+01 7.16E+00 4.85E+00 2.45E+00 1.81E+00 5.63E-01 2.48E-01 1.33E-01	TANTAL 8KEV 9.94E+01 7.62E+01 7.62E+01 2.11E+01 2.11E+01 6.95E+00 4.39E+00 2.91E+00 1.43E+00 1.05E+00 3.20E-01 7.75E-02	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 1.7E+00 2.55E+00 1.65E+00 1.65E+00 7.95E+01 5.80E-01	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 4.26E+00 2.32E+00 1.38E+00 8.74E-01 4.04E-01 2.91E-01 8.36E-02 3.31E-02 1.56E-02	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 1.18E+00 6.74E-01 4.12E-01 1.63E-01 1.63E-01 1.30E-01 3.33E-02 1.23E-02 5.78E-03	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 2.92E-01 1.74E-01 1.11E-01 7.40E-02 5.13E-02 1.23E-02 4.50E-03 2.05E-03	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 1.24E+01 2.22E-01 1.18E-01 6.87E-02 4.28E-02 4.28E-02 1.93E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 1.65E+01 1.21E+01 8.91E+00 5.66E+00 5.05E+00 1.58E+00 6.72E-01 3.69E-01 2.32E-01	2KEV 6.88E+01 6.74E+01 6.35E+01 5.07E+01 3.65E+01 1.66E+01 1.13E+01 7.84E+00 5.60E+00 3.06E+00 9.32E-01 4.12E-01 2.24E-01 1.36E-01	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 2.96E+01 1.10E+01 7.16E+00 4.85E+00 3.45E+00 1.81E+00 5.63E-01 2.48E-01 1.33E-01 8.24E-02	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 2.11E+01 6.95E+00 4.39E+00 2.91E+00 2.91E+00 1.43E+00 1.45E+01 7.75E-02 4.81E-02	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+00 4.17E+00 2.55E+00 1.65E+00 1.12E+00 7.95E+01 5.80E-01 1.72E-01 7.63E-02 2.24E-02	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 8.67E+00 2.32E+00 1.38E+00 8.74E-01 5.82E-01 2.91E-01 8.36E-02 3.31E-02 1.56E-02 8.52E-03	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 1.18E+00 6.74E-01 4.12E-01 2.68E-01 1.83E-01 1.30E-01 3.33E-02 1.23E-02 5.78E-03 3.13E-03	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 2.92E-01 1.74E-01 1.11E-01 7.40E-02 5.13E-02 4.50E-03 2.05E-03 1.08E-03	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 1.24E+00 4.76E-01 2.22E-01 1.18E-01 6.87E-02 4.281E-02 1.93E-02 4.46E-03 1.57E-03 7.04E-04 3.71E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 20.0 25.0 35.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 3.00E+01 2.25E+01 1.65E+01 1.21E+01 8.91E+00 5.66E+00 5.05E+00 1.58E+00 6.72E-01 3.69E-01 2.32E-01 1.50E-01	2KEV 5.88E+01 6.74E+01 5.37E+01 3.65E+01 2.48E+01 1.166E+01 7.84E+00 5.60E+00 4.10E+00 3.06E+00 4.12E-01 4.12E-01 1.36E-01 9.08E-02	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.77E+01 1.10E+00 7.16E+00 3.40E+00 2.45E+00 1.81E+00 5.63E-01 2.48E-01 1.33E-01 5.64E-02 5.60E-02	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 2.11E+01 1.16E+01 6.95E+00 2.91E+00 2.91E+00 2.91E+00 3.20E-01 1.45E+00 3.20E-01 7.75E-02 4.81E-02 3.16E-02	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 7.29E+00 4.17E+00 2.55E+00 1.65E+00 1.12E+00 7.95E-01 5.80E-01 1.72E-01 7.63E-02 3.96E-02 2.24E-02 1.36E-02	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 2.05E+00 4.26E+00 2.32E+00 1.38E+00 1.38E+01 4.04E-01 2.91E-01 8.36E-02 3.31E-02 1.56E-02 3.56E-03 5.17E-03	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+01 2.68E-01 1.83E-01 1.30E-01 3.33E-02 1.23E-03 3.13E-03 1.86E-03	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 1.74E-01 1.74E-01 7.40E-02 5.13E-02 4.50E-03 2.05E-03 1.08E-03 6.36E-04	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+0 1.24E+00 4.76E-01 2.22E-01 1.18E-01 4.28E-02 2.81E-02 4.28E-02 4.28E-02 3.57E-03 7.04E-04 2.18E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 20.0 25.0 30.0 35.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 3.00E+01 2.25E+01 1.65E+01 1.21E+01 8.91E+00 5.66E+00 5.05E+00 1.58E+00 6.72E-01 3.69E-01 2.32E-01 1.50E-01 9.80E-02	2KEV 6.88E+01 6.74E+01 6.37E+01 5.07E+01 2.48E+01 1.13E+01 1.13E+01 7.84E+00 5.60E+00 4.10E+00 3.06E+00 9.32E-01 4.12E-01 2.24E-01 1.36E-02 6.61E-02	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.77E+01 1.10E+00 7.16E+00 3.40E+00 2.45E+00 1.81E+00 5.63E-01 2.48E-01 1.33E-01 8.24E-02 3.99E-02	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 1.16E+01 6.95E+00 4.39E+00 2.90E+00 1.43E+00 1.05E+00 3.20E-01 1.40E-01 7.75E-02 4.81E-02 2.19E-02	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+01 7.29E+00 4.17E+00 2.55E+00 1.65E+00 1.12E+00 7.95E+01 5.80E-01 1.72E-01 7.63E-02 3.96E-02 2.24E-02 9.09E-03	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 8.67E+00 4.26E+00 2.32E+00 1.38E+00 1.38E+00 1.38E-01 4.04E-01 2.91E-01 8.36E-02 3.31E-02 1.56E-02 8.52E-03 3.38E-03	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+01 4.12E-01 2.68E-01 1.83E-01 1.30E-01 3.33E-02 1.23E-02 5.78E-03 3.13E-03 1.19E-03	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 2.92E-01 1.74E-01 1.11E-01 7.40E-02 5.13E-02 1.23E-02 4.50E-03 2.05E-03 1.08E-03 4.07E-04	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 4.76E-01 2.22E-01 1.18E-01 2.28E-02 2.81E-02 1.93E-02 4.46E-03 1.57E-03 7.04E-04 3.71E-04 1.38E-04
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ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 35.0 40.0 45.0 50.0 60.0 70.0	1KEV 5.59E+01 5.52E+01 5.35E+01 3.87E+01 3.87E+01 3.87E+01 1.65E+01 1.21E+01 8.91E+00 5.66E+00 5.05E+00 1.58E+00 6.72E-01 3.69E-01 2.32E-01 9.80E-02 6.70E-02 5.15E-02 4.21E-02	2KEV 6.88E+01 6.74E+01 5.07E+01 5.07E+01 2.48E+01 1.63E+01 1.63E+00 5.60E+00 4.10E+00 3.06E+00 4.12E-01 2.24E-01 1.36E-02 5.06E-02 5.06E-02 5.06E-02 5.06E-02 1.58E-02	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.77E+01 1.10E+00 7.16E+00 3.40E+00 2.45E+00 1.81E+00 5.63E-01 2.48E-01 1.33E-01 8.24E-02 3.99E-02 2.96E-02 2.96E-02 1.19E-02	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 1.16E+01 6.95E+00 4.39E+00 2.00E+00 1.43E+00 1.45E+00 3.20E-01 7.75E-02 4.81E-02 2.19E-02 1.59E-02 1.20E-03 4.77E-03	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+00 4.17E+00 2.55E+00 1.65E+00 1.12E+00 7.95E-01 5.80E-01 1.72E-01 7.63E-02 3.96E-02 2.24E-02 9.09E-03 6.32E-03 4.59E-03 4.59E-03	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+00 4.26E+00 2.32E+00 1.38E+00 1.38E+01 4.04E-01 2.91E-01 8.36E-02 3.31E-02 1.56E-02 8.52E-03 3.38E-03 2.33E-03 2.34E-04 6.43E-04	64KEV 1.72E+02 1.10E+02 4.02E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+01 4.12E-01 2.68E-01 1.63E-01 1.30E-01 3.33E-02 1.23E-02 5.78E-03 3.13E-03 1.19E-03 8.14E-04 5.37E-04 2.17E-04	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 1.10E+00 5.36E-01 1.74E-01 1.74E-01 1.11E-01 7.40E-02 5.13E-02 4.50E-03 2.05E-03 1.08E-03 4.07E-04 2.77E-04 1.97E-04 1.97E-04 7.00E-05	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 4.26E+01 2.22E-01 1.18E-02 4.28E-02 2.81E-02 4.28E-02 4.46E-03 1.57E-03 7.04E-04 3.71E-04 1.38E-04 9.34E-05 6.66E-05 2.23E-05
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 20.0 25.0 30.0 45.0 60.0 70.0 80.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 1.65E+01 1.21E+01 1.21E+01 1.58E+00 6.66E+00 5.05E+00 1.58E+00 1.58E+00 6.72E-01 1.50E-01 1.50E-02 4.51E-02 4.21E-02 2.25E-02	2KEV 5.88E+01 6.74E+01 5.07E+01 5.07E+01 2.48E+01 1.66E+01 1.13E+01 5.06E+00 4.10E+00 3.06E+00 4.12E-01 2.24E-01 1.36E-02 5.06E-02 3.96E-02 2.96E-02 1.58E-02 1.58E-02 1.58E-02 1.58E-02 1.58E-02 1.58E-02 1.58E-02 1.58E-02 1.58E-02	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.77E+01 1.10E+00 7.16E+00 3.40E+00 2.45E+00 1.81E+00 5.63E-01 2.48E-01 1.33E-01 8.24E-02 3.99E-02 2.29E-02 1.56E-02 9.33E-03	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 1.16E+01 6.95E+00 4.39E+00 2.91E+00 2.91E+00 1.43E+00 1.45E+00 1.45E+00 1.45E+00 1.55E+00 3.20E-01 7.75E-02 4.81E-02 2.19E-02 1.59E-02 1.59E-02 1.59E-03 3.30E-03	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 7.29E+00 4.17E+00 2.55E+00 1.65E+00 1.65E+01 1.72E-01 7.80E-01 1.72E-01 7.63E-02 3.96E-02 2.24E-02 9.09E-03 6.32E-03 4.59E-03 2.69E-03 1.77E-03 1.77E-03 1.29E-03	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+00 4.26E+00 2.32E+00 1.38E+00 8.74E-01 4.04E-01 2.91E-01 8.36E-02 3.31E-02 8.52E-03 3.18E-02 8.52E-03 3.18E-03 3.18E-04 4.68E-04 4.62E-04	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 1.31E+00 2.27E+00 1.18E+01 4.12E-01 1.63E-01 1.30E-01 3.33E-02 5.78E-03 3.13E-03 1.19E-03 8.14E-04 5.84E-04 3.37E-04 1.51E-04	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 1.10E+00 5.36E-01 2.92E-01 1.74E-01 1.74E-01 7.40E-02 5.13E-02 1.23E-02 4.50E-03 2.05E-03 1.08E-03 4.07E-04 1.12E-04 1.12E-04 1.12E-04 1.12E-05 4.69E-05	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 4.76E-01 2.22E-01 1.18E-01 6.87E-02 2.81E-02 2.81E-02 1.93E-02 4.46E-03 7.04E-04 3.71E-04 2.18E-04 9.34E-05 6.60E-05 3.65E-05 1.45E-05
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 35.0 40.0 45.0 50.0 60.0 70.0	1KEV 5.59E+01 5.52E+01 5.35E+01 3.87E+01 3.87E+01 3.87E+01 1.65E+01 1.21E+01 8.91E+00 5.66E+00 5.05E+00 1.58E+00 6.72E-01 3.69E-01 2.32E-01 9.80E-02 6.70E-02 5.15E-02 4.21E-02	2KEV 6.88E+01 6.74E+01 5.07E+01 5.07E+01 2.48E+01 1.63E+01 1.63E+00 5.60E+00 4.10E+00 3.06E+00 4.12E-01 2.24E-01 1.36E-02 5.06E-02 5.06E-02 5.06E-02 5.06E-02 1.58E-02	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.77E+01 1.10E+00 7.16E+00 3.40E+00 2.45E+00 1.81E+00 5.63E-01 2.48E-01 1.33E-01 8.24E-02 3.99E-02 2.96E-02 2.96E-02 1.19E-02	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 1.16E+01 6.95E+00 4.39E+00 2.00E+00 1.43E+00 1.45E+00 3.20E-01 7.75E-02 4.81E-02 2.19E-02 1.59E-02 1.20E-03 4.77E-03	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+00 4.17E+00 2.55E+00 1.65E+00 1.12E+00 7.95E-01 5.80E-01 1.72E-01 7.63E-02 3.96E-02 2.24E-02 9.09E-03 6.32E-03 4.59E-03 4.59E-03	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+00 4.26E+00 2.32E+00 1.38E+00 1.38E+01 4.04E-01 2.91E-01 8.36E-02 3.31E-02 1.56E-02 8.52E-03 3.38E-03 2.33E-03 2.34E-04 6.43E-04	64KEV 1.72E+02 1.10E+02 4.02E+01 1.31E+01 4.97E+00 2.27E+00 1.18E+01 4.12E-01 2.68E-01 1.63E-01 1.30E-01 3.33E-02 1.23E-02 5.78E-03 3.13E-03 1.19E-03 8.14E-04 5.37E-04 2.17E-04	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 1.10E+00 5.36E-01 1.74E-01 1.74E-01 1.11E-01 7.40E-02 5.13E-02 4.50E-03 2.05E-03 1.08E-03 4.07E-04 2.77E-04 1.97E-04 1.97E-04 7.00E-05	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 4.26E+01 2.22E-01 1.18E-02 4.28E-02 2.81E-02 4.28E-02 4.46E-03 1.57E-03 7.04E-04 3.71E-04 1.38E-04 9.34E-05 6.66E-05 2.23E-05
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ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 25.0 30.0 25.0 30.0 40.0 40.0 120.0 120.0 130.0 150.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 3.00E+01 2.25E+01 1.65E+01 1.21E+01 8.91E+00 6.66E+00 5.05E+00 1.58E+00 6.72E-01 3.69E-01 2.32E-01 1.50E-01 9.80E-02 4.59E-02 4.59E-02 4.21E-02 4.21E-02 4.25E-03 1.39E-02 4.24E-02 5.45E-03 3.52E-02 5.45E-03 3.52E-02	2KEV 6.88E+01 6.74E+01 5.07E+01 5.07E+01 2.48E+01 1.66E+01 1.13E+00 5.66E+00 4.10E+00 3.06E+00 4.12E-01 2.24E-01 1.36E-02 5.06E-02 3.96E-02 2.45E-02 1.58E-02	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.77E+01 1.10E+00 7.16E+00 3.40E+00 2.45E+00 1.81E+00 5.63E-01 2.48E-01 1.33E-01 8.24E-02 2.96E-02 2.96E-02 2.96E-02 2.96E-03 3.64E-03 3.64E-03 3.89E-03 6.15E-03 1.59E-02	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 1.16E+01 6.95E+00 4.39E+00 2.00E+00 1.43E+00 1.05E+00 3.20E-01 1.40E-01 7.75E-02 4.81E-02 2.19E-02 1.59E-02 1.20E-03 3.30E-03 2.48E-03 2.14E-03 2.15E-03 2.48E-03 3.38E-03 3.38E-03	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 1.39E+00 4.17E+00 2.55E+00 1.65E+00 1.65E+01 1.72E+00 7.95E+01 1.72E+00 7.95E+01 1.72E-02 3.96E-02 2.34E-02 3.96E-02 2.34E-03 4.59E-03 1.729E-03	32KEV 1.41E+02 1.10E+01 2.05E+01 2.05E+00 4.26E+00 2.32E+00 1.38E+00 5.82E-01 4.04E-01 2.91E-01 8.36E-02 3.31E-02 3.31E-02 3.31E-02 3.38E-03 3.38E-03 3.38E-03 2.32E-04 2.52E-04	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 2.27E+00 1.18E+01 1.268E-01 1.30E-01 3.32E-01 3.32E-03 3.12E-01 3.32E-03 3.14E-04 5.84E-04 3.17E-04 5.84E-04 6.7E-05 7.05E-05 5.97E-05 4.30E-05 4.30E-05 6.7E-05	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 1.10E+00 5.36E-01 1.74E-01 1.74E-01 1.11E-01 7.40E-02 5.13E-02 1.250E-03 2.05E-03 2.05E-03 1.08E-04 4.07E-04 1.12E-04 1.12E-05 3.62E-05 3.62E-05 3.62E-05 3.63E-0	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 4.76E-01 2.22E-01 1.18E-02 2.81E-02 2.81E-02 2.81E-02 4.46E-03 1.57E-03 7.04E-04 3.71E-04 1.38E-04 9.34E-05 6.60E-05 2.23E-05 1.45E-05 7.07E-06 3.97E-06 3.97E-06 3.97E-06 3.97E-06 3.97E-06 2.97E-06 2.97E-06 2.97E-06 2.97E-06 2.97E-06 2.97E-06 2.97E-06 2.97E-06 2.97E-06 2.97E-06 2.97E-06 2.97E-06
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 20.0 25.0 30.0 45.0 40.0 90.0 110.0 120.0 130.0 140.0 150.0	1KEV 5.59E+01 5.52E+01 5.35E+01 3.87E+01 3.87E+01 1.65E+01 1.21E+01 6.66E+00 5.05E+00 1.58E+00 1.58E+01 2.32E-01 2.32E-01 2.32E-01 2.32E-02 4.21E-02 4.21E-02 4.21E-02 4.25E-02 4.24E-02 5.25E-02	2KEV 6.88E+01 6.74E+01 6.37E+01 5.07E+01 2.48E+01 1.66E+01 1.18E+00 4.10E+00 3.06E+00 4.12E-01 2.24E-01 1.36E-01 9.32E-01 2.24E-01 2.24E-02 1.58E-02 2.45E-02 1.58E-02	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.77E+01 1.10E+01 7.16E+00 4.85E+00 2.45E+00 1.81E+00 5.63E-01 1.33E-01 8.24E-02 5.60E-02 2.96E-02 2.96E-02 1.19E-02 1.19E-03 3.89E-03 6.15E-03 1.059E-02 2.15E-02	TANTAL 8KEV 9.94E+01 7.62E+01 7.62E+01 1.16E+01 6.95E+00 2.91E+00 1.43E+00 1.43E+00 1.45E+00 1.45E+00 3.20E-01 7.75E-02 4.81E-02 3.16E-02 3.16E-03 3.20E-03 3.20E-03 3.30E-03 2.15E-03 3.30E-03 3.41E-03 3.82E-03 3.82E-03	UM, Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 3.04E+01 7.29E+00 4.17E+00 2.55E+00 1.65E+00 1.65E+00 1.65E+00 1.729E-01 5.80E-01 1.729E-01 1.729E-01 1.729E-01 1.729E-01 3.94E-02 3.94E-02 3.94E-02 3.94E-03 4.59E-03 4.59E-03 4.59E-03 4.59E-03 4.59E-03 4.59E-03 4.59E-03 4.59E-03 4.59E-03 4.59E-03 4.59E-04 8.11E-04 8.11E-04 8.11E-04 8.45E-04 8.55E-04	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+01 2.05E+00 4.26E+00 2.32E+00 1.38E+01 8.74E-01 4.04E-01 2.91E-01 8.36E-02 8.56E-02 8.56E-02 8.56E-03 5.17E-03 3.38E-03 1.68E-03 3.38E-03 4.68E-04 4.57E-04 2.57E-04 2.57E-04 2.98E-04 1.89E-04 1.89E-04 1.89E-04 1.89E-04 1.89E-04 1.89E-04 1.89E-04	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 1.31E+00 1.18E+00 1.18E+01 1.12E-01 1.83E-01 1.83E-01 1.83E-01 1.83E-01 1.83E-01 1.83E-03 1.84E-04 3.37E-04 3.37E-04 1.19E-04 8.67E-05 4.65E-05	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 1.10E+00 5.36E-01 2.92E-01 1.74E-01 7.40E-02 5.13E-02 1.26E-03 2.05E-03 2.05E-03 1.08E-03 4.50E-04 1.77E-04 1.97E-04 1.12E-04 1.12E-05 3.32E-05 3.32E-05 1.97E-05 1.97E-05 1.97E-05 1.97E-05 1.97E-05 1.97E-05 1.97E-06 8.90E-06	256KEV 3.38E+02 8.81E+01 2.43E+01 4.25E+00 4.76E-01 2.22E-01 1.18E-01 6.27E-02 2.81E-02 2.81E-02 1.57E-03 7.04E-04 3.71E-04 2.18E-04 9.34E-05 3.65E-05 3.65E-05 3.65E-05 3.65E-05 3.65E-05 3.65E-05 3.67E-06 3.97E-06
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 35.0 40.0 50.0 70.0 80.0 110.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.00E+01 2.25E+01 1.21E+01 8.91E+00 5.65E+00 1.58E+00 6.72E-01 3.69E-01 2.32E-01 1.50E-01 9.80E-02 6.70E-02 4.59E-02 4.59E-02 4.59E-02 4.55E-02	2KEV 5.88E+01 6.74E+01 5.07E+01 3.65E+01 2.48E+01 1.63E+00 5.66E+00 4.16E+00 5.60E+00 4.12E-01 2.24E-01 4.24E-01 9.32E-02 6.61E-02 5.96E-02 2.458E-02 1.58E-02	4KEV 8.32E+01 8.01E+01 7.18E+01 2.96E+01 1.77E+01 1.77E+01 1.10E+00 4.85E+00 3.40E+00 2.45E+00 1.81E+00 5.63E-01 2.48E-01 2.48E-02 3.40E-02 3.40E-02 3.40E-02 4.50E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.56E-03 4.91E-03 3.64E-03 3.64E-03 3.64E-02 2.55E-02 2.56E-02 2.56E-02	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 1.16E+01 6.12E+01 1.16E+01 6.39E+00 2.91E+00 1.05E+00 1.05E+00 1.05E+00 1.05E+00 1.05E+00 1.05E+00 1.05E+00 1.05E+00 1.05E+00 2.19E-02 1.20E-02 1.20E-02 1.20E-03 4.77E-03 2.14E-03 2.14E-03 2.14E-03 2.14E-03 2.45E-03 3.38E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03	Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 7.36E+01 1.39E+01 7.29E+00 4.17E+00 1.12E+00 7.95E+01 1.72E+01 1.72E+01 1.72E-01 7.63E-02 3.92E-03 4.59E-02 1.36E-02 9.03E-03 4.59E-03 1.729E-03 8.93E-03 8.93E-04 8.11E-04 8.11E-04 8.45E-04 8.64E-04 8.64E-04	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+00 4.26E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E-01 1.32E-01 1.32E-02 1.52E-03 1.52E-03 1.52E-03 1.52E-03 1.52E-04	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 2.27E+00 1.18E-01 2.68E-01 1.80E-01 1.80E-01 3.32E-03 3.32E-03 3.33E-03 1.86E-03 3.18E-04 3.37E-04 3.37E-04 3.37E-04 3.37E-04 3.37E-04 3.37E-04 3.37E-04 3.37E-05	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 1.74E-01 1.11E-01 7.40E-02 1.25E-03 2.05E-03 2.05E-03 1.08E-03 6.36E-04 4.07E-04 2.77E-04 1.92E-05 4.07E-05	256KE V 3.38E+02 8.81E+01 2.42E+00 1.24E+00 4.76E-01 2.12E-02 4.28E-02 2.81E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-03 7.04E-04 2.18E-04 1.38E-05 3.65E-05 3.65E-05 2.27E-06 3.99E-06 2.47E-06 2.47E-06 1.86E-06 1.68E-06 1.68E-06
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 305.0 40.0 45.0 50.0 120.0 120.0 130.0 140.0 150.0 180.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.87E+01 3.87E+01 1.65E+01 1.21E+01 8.91E+00 5.66E+00 5.05E+00 1.58E+00 6.72E-01 2.32E-01 2.32E-01 2.32E-01 2.32E-02 4.21E-02 2.25E-02 4.21E-02 2.25E-02 4.21E-02 2.25E-02 4.25E-03 3.52E-02 1.39E-02 4.26E-02 3.76E-02 3.76E-02 3.76E-02 3.76E-02 3.76E-02 3.76E-02 3.76E-02 3.76E-02 3.76E-01	2KEV 6.88E+01 6.74E+01 5.07E+01 5.07E+01 5.07E+01 1.63E+01 1.63E+01 1.63E+00 5.60E+00 4.10E+00 3.06E+00 4.12E-01 2.24E-01 1.36E-02 5.96E-02 5.96E-02 1.58E-02	4KEV 8.32E+01 8.01E+01 7.18E+01 4.90E+01 1.77E+01 1.10E+00 7.18E+00 3.40E+00 2.45E+00 1.81E+00 5.63E-01 2.48E-01 1.33E-02 3.99E-02 2.26E-02 2.26E-02 1.19E-02 9.33E-03 6.99E-03 4.91E-03 3.64E-03 3.64E-03 3.64E-02 2.56E-02 2.72E-02	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 4.12E+01 1.16E+01 6.39E+00 2.00E+00 1.45E+00 2.00E+00 1.45E+00 3.26E+00 2.19E-02 4.81E-02 2.19E-02 1.20E-03 4.77E-03 3.34E-03 2.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03	UM, 16E+02 1.08E+02 1.03E+02 7.36E+01 7.36E+01 1.35E+01 1.729E+00 4.175E+00 1.175E+00 1.12E+00 1	32KEV 1.41E+02 1.10E+01 2.05E+01 2.05E+00 4.26E+00 1.38E+00 1.38E+01 4.04E-01 2.91E-01 8.36E-02 3.31E-02 4.62E-04 4.62E-04 4.62E-04 4.82E-04 1.82E-04 1.82E-04 1.82E-04 1.82E-04	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 2.27E+00 1.18E+01 2.18E+01 1.830E-01 1.830E-01 1.830E-01 1.830E-01 1.830E-01 1.830E-01 1.830E-01 1.830E-01 1.830E-01 1.830E-01 1.830E-02 5.13E-03 1.84E-04 5.84E-04 2.17E-04 1.91E-04 1.91E-04 1.91E-05	128KEV 2.26E+02 1.01E+02 3.47E+00 2.60E+00 1.10E+00 5.36E-01 1.11E-01 7.40E-02 1.11E-01 7.40E-02 1.25E-03 1.08E-03 1.08E-04 4.50E-04 4.50E-04 2.77E-04 1.77E-04 1.97E-04 1.97E-05 4.62E-05 3.32E-05 2.46E-05 1.51E-05	256KEV 3.38E+02 8.81E+01 2.42E+00 4.25E+01 2.24E+01 1.24E+01 1.28E-01 1.28E-02 2.81E-02 2.81E-02 4.28E-03 7.04E-04 7.38E-05 6.66E-05 2.27E-06 3.09E-06 2.27E-06 2.47E-06 2.47E-06 2.68E-06 1.68E-06 1.68E-06 1.68E-06
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 25.0 25.0 35.0 40.0 50.0 70.0 80.0 110.0 120.0 120.0 120.0 120.0 120.0 120.0 120.0	1KEV 5.59E+01 5.52E+01 5.35E+01 4.71E+01 3.00E+01 2.25E+01 1.21E+01 8.91E+00 5.65E+00 1.58E+00 6.72E-01 3.69E-01 2.32E-01 1.50E-01 9.80E-02 6.70E-02 4.59E-02 4.59E-02 4.59E-02 4.55E-02	2KEV 5.88E+01 6.74E+01 5.07E+01 3.65E+01 2.48E+01 1.63E+00 5.66E+00 4.16E+00 5.60E+00 4.12E-01 2.24E-01 4.24E-01 9.32E-02 6.61E-02 5.96E-02 2.458E-02 1.58E-02	4KEV 8.32E+01 8.01E+01 7.18E+01 2.96E+01 1.77E+01 1.77E+01 1.10E+00 4.85E+00 3.40E+00 2.45E+00 1.81E+00 5.63E-01 2.48E-01 2.48E-02 3.40E-02 3.40E-02 3.40E-02 4.50E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.40E-02 3.56E-03 4.91E-03 3.64E-03 3.64E-03 3.64E-02 2.55E-02 2.56E-02 2.56E-02	TANTAL 8KEV 9.94E+01 9.27E+01 7.62E+01 1.16E+01 6.12E+01 1.16E+01 6.39E+00 2.91E+00 1.05E+00 1.05E+00 1.05E+00 1.05E+00 1.05E+00 1.05E+00 1.05E+00 1.05E+00 1.05E+00 2.19E-02 1.20E-02 1.20E-02 1.20E-03 4.77E-03 2.14E-03 2.14E-03 2.14E-03 2.14E-03 2.45E-03 3.38E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03 3.48E-03	Z=73 16KEV 1.18E+02 1.03E+02 7.36E+01 7.36E+01 1.39E+01 7.29E+00 4.17E+00 1.12E+00 7.95E+01 1.72E+01 1.72E+01 1.72E-01 7.63E-02 3.92E-03 4.59E-02 1.36E-02 9.03E-03 4.59E-03 1.729E-03 8.93E-03 8.93E-04 8.11E-04 8.11E-04 8.45E-04 8.64E-04 8.64E-04	32KEV 1.41E+02 1.10E+02 6.31E+01 2.05E+00 4.26E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E+00 1.32E-01 1.32E-01 1.32E-02 1.52E-03 1.52E-03 1.52E-03 1.52E-03 1.52E-04	64KEV 1.72E+02 1.10E+02 4.82E+01 1.31E+01 4.97E+00 2.27E+00 1.18E-01 2.68E-01 1.80E-01 1.80E-01 3.32E-03 3.32E-03 3.33E-03 1.86E-03 3.18E-04 3.37E-04 3.37E-04 3.37E-04 3.37E-04 3.37E-04 3.37E-04 3.37E-04 3.37E-05	128KEV 2.26E+02 1.01E+02 3.47E+01 7.77E+00 2.60E+00 1.10E+00 5.36E-01 1.74E-01 1.11E-01 7.40E-02 1.25E-03 2.05E-03 2.05E-03 1.08E-03 6.36E-04 4.07E-04 2.77E-04 1.92E-05 4.07E-05	256KE V 3.38E+02 8.81E+01 2.42E+00 1.24E+00 4.76E-01 2.12E-02 4.28E-02 2.81E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-02 4.28E-03 7.04E-04 2.18E-04 1.38E-05 3.65E-05 3.65E-05 2.27E-06 3.99E-06 2.47E-06 2.47E-06 1.86E-06 1.68E-06 1.68E-06

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

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				GOLD,	Z=79				
ANGLE	1KEV	2KEV	4KE V	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
0.0	2.80E+01	3.65E+01	4.64E+01	5.80E+01	7.14E+01	8.76E+01	1.10E+02	1.47E+02	2.22E+02
0.5	2.78E+01	3.60E+01	4.55E+01	5.58E+01	6.63E+01	7.64E+01	8.50E+01	9.09E+01	9.26E+01
1.0	2.73E+01	3.48E+01	4.27E+01	4.99E+01	5.44E+D1	5.43E+01	4.86E+01	3.88E+01	2.76E+01
2.0	2.53E+01	3.05E+01	3.40E+01	3.41E+01	2.98E+01	2.25E+01	1.47E+01	8.47E+00	4.54E+00
3.0	2.25E+01	2.50E+01	2.46£+81	2.09E+01	1.53E+01	9.60E+00	5.35E+00	2.75E+00	1.35E+00
4.0	1.92E+01	1.95E+01	1.69E+01	1.26E+01	8.03E+00	4.56E+00	2.39E+00	1.17E+00	5.29E-01
5.0	1.60E+01	1.47E+01	1.14E+01	7.63E+00	4.49E+00	2.43E+00	1.24E+00	5.828-01	2.48E-01
6.0 7.0	1.30E+01	1.09E+01	7.71E+00	4.77E+00	2.69E+00	1.44E+00	7.14E-01	3.20E-01	1.32E-01
7.0 8.0	1.04E+01 8.22E+00	8.01E+00 5.89E+00	5.26E+00 3.65E+00	3.10E+00 2.10E+00	1.72E+00 1.17E+00	9.11E-01	4.40E-01	1.92E-01	7.72E-02
9.0	6.46E+00	4.35E+00	2.60E+00	1.49E+00	8.26E-01	6.09E-01 4.24E-01	2.87E-01 1.97E-01	1.23E-01 8.23E-02	4.81E-02 3.16E-02
10.0	5.07E+00	3.25E+00	1.90E+00	1.10E+00	6.05E-01	3.06E-01	1.40E-01	5.73E-02	2.17E-02
1000	7.012.0 0	01272.00	10 300 00	10101.00	0.025-01	3.002-01	10406-01	9.73C-02	5.11C-05
15.0	1.59E+00	9.58E-01	5.92E-01	3.40E-01	1.77E-01	8.86E-02	3.71E-02	1.37E-02	5.04E-03
20.0	6.50E-01	4.37E-01	2.69E-01	1.44E-01	7.81E-02	3.64E-02	1.37E-02	5.01E-03	1.78E-03
25.0	3.73E-01	2.46E-01	1.42E-01	7.77E-02	4.18E-02	1.74E-02	6.37E-03	2.29E-03	7.97E-04
30.0	2.54E-01	1.49E-01	8.53E-02	4.82E-02	2.44E-02	9.47E-03	3-44E-03	1.21E-03	4.22E-04
35.0	1.78E-01	9.69E-02	5.68E-02	3.22E-02	1.53E-02	5.70E-03	2.05E-03	7.14E-04	2.49E-04
40.0	1.20E-01	6.88E-02	4.02E-02	2.27E-02	1.01E-02	3.70E-03	1.325-03	4.58E-04	1.60E-04
45.0	7.74E-02	5.26E-02	2.96E-02	1.67E-02	7.05E-03	2.55E-03	9.02E-04	3.14E-04	1.09E-04
50.0	5.08E-02	4.18E-02	2.26E-02	1.28E-02	5.11E-03	1.84E-03	6.50E-04	2.26E-04	7.79E-05
60.0	3.95E-02	2.67E-02	1.51E-02	8.14E-03	2.95E-03	1.07E-03	3.78E-04	1.31E-04	4.42E-05
70.0	4.99E-02	1.58E-02	1.19€-02	5.44E-03	1.91E-83	7.05E-04	2.47E-04	8.34E-05	2.76E-05
80.0	3.86E-02	1.09E-02	1.02E-02	3.71E-03	1.36E-03	5-12E-04	1.76E-04	5.70E-05	1.83E-05
90.0	9.19E-03	1.32E-02	8.34E-03	2.65E-03	1.09E-03	4.02E-04	1.32E-04	4.12E-05	1.27E-05
30.0	34135-03	1. 32605	0.045-00	£ • 0 9 E - 0 3	1.030.00	4.025-04	1.326-04	4.125-03	1.2/2-05
100.0	4.44E-03	1.86E-02	6.01E-03	2.13E-03	9.61E-04	3.38E-04	1.052-04	3.12E-05	9.20E-06
110.0	4.03E-02	1.92E-02	3.86E-03	2.09E-03	9.23E-04	2.99E-04	8.71E-05	2.45E-05	6.89E-06
120.0	7 - 46 E-02	1.11E-02	3.22E-03	2.45E-03	9.37E-04	2.75E-04	7.48E-05	1.99E-05	5.29E-06
130.0	5.98E-02	1.67E-03	5.35E-03	3.11E-03	9.77E-04	2.60E-04	6.605-05	1.67E-05	4.16E-06
140.0	1.53E-02	7.35E-03	1.07E-02	3.93E-03	1.03E-03	2.52E-04	6.01E-05	1.456-05	3.36E-06
150.0	2.026-02	4.06E-02	1.84E-02	4.76E-03	1.08E-03	2.47E-04	5.65E-05	1.29E-05	2.82E-06
160.0	1.22E-01	9.61E-02	2.65E-02	5.48E-03	1.12E-03	2.44E-04	5.39E-05	1.20E-05	2.48E-06
170.0	2.64E-01	1.49E-01	3.27E-02	5.95E-03	1.14E-03	2.42E-04	5.19E-05	1.15E-05	2.30E-06
180.0	3.31E-01	1.72E-01	3.50E-02	6.12E-03	1.15E-03	2.42E-04	5.11E-05	1.13E-05	2.24E-06
TOTAL	2.46E+00	1.81E+00	1.30E+00	9.11E-01	6.21E-01	4.14E-01	2.73E-01	1.82E-01	1.28E-01
TRANS	6.69E-01	3.53E-01	1.55E-01	6.15E-02	2.29E-02	8.15E-03	2.84E-03	9.84E-04	3.45E-04
						32232 33			
						32132 33	11041		
			2772			32232 33	2.1042 90		
ANGLE	1KEV	2KEV	4KEV	MERCUR	Y, Z=80				
	1KEV	2KEV	4KEV	MERCUR 8KEV	Y+ Z=80 16KEV	32KEV	64KEV	128KEV	256KE V
ANGLE				MERCUR 8KEV 6.28E+01	Y• Z=80 16KEV 7•71E+01	32KEV 9•45E+01	64KEV 1•18E+02	128KEV 1.58E+02	256KEV 2•39E+02
ANGLE 0.0	1KEV 3.06E+01	2KEV 3•97E+01	4KEV 5•04E+01	MERCUR 8KEV 6.28E+01 6.03E+01	Y, Z=80 16KEV 7.71E+01 7.14E+01	32KEV 9.45E+01 8.19E+01	64KEV 1+18E+02 9•04E+01	128KEV 1.58E+02 9.55E+01	256KEV 2•39E+02 9•57E+01
ANGLE 0.0 0.5	1KEV 3.06E+01 3.04E+01	2KEV 3.97E+01 3.92E+01	4KEV 5.04E+01 4.93E+01 4.63E+01	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01	Y. Z=80 16KEV 7.71E+01 7.14E+01 5.80E+01	32KEV 9.45E+01 8.19E+01 5.72E+01	64KEV 1.18E+02 9.04E+01 5.04E+01	128KEV 1.58E+02 9.55E+01 3.96E+01	256KEV 2.39E+02 9.57E+01 2.80E+01
ANGLE 0.0 0.5 1.0	1KEV 3.06E+01 3.04E+01 2.98E+01	2KEV 3.97E+01 3.92E+01 3.79E+01	4KEV 5.04E+01 4.93E+01	MERCUR 8KEV 6.28E+01 6.03E+01	Y, Z=80 16KEV 7.71E+01 7.14E+01	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00	256KEV 2.39E+02 9.57E+01 2.80E+01 4.59E+00
ANGLE 0.0 0.5 1.0 2.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01	4KEV 5.04E+01 4.93E+01 4.63E+01 3.64E+01	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01	Y, Z=80 16KEY 7.71E+01 7.14E+01 5.80E+01 3.09E+01	32KEV 9.45E+01 8.19E+01 5.72E+01	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00	256KEV 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+00
ANGLE 0.0 0.5 1.0 2.0 3.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.44E+01	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.68E+01	4KEV 5.04E+01 4.93E+01 4.63E+01 3.64E+01 2.59E+01	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01 1.28E+01	Y+ Z=80 16KEV 7.71E+01 7.14E+01 5.80E+01 3.09E+01	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 9.72E+00	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 2.41E+00	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00	256KEV 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+00 5.37E-01
ANGLE 0.0 0.5 1.0 2.0 3.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.44E+01 2.07E+01	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.68E+01 2.06E+01	4KEV 5.04E+01 4.93E+01 4.63E+01 3.64E+01 2.59E+01 1.76E+01	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-80E+01 3-09E+01 1-55E+01 8-13E+00	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 4.61E+00 2.46E+00	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 2.41E+00 1.25E+00	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00 1.19E+00 5.89E-01	256KEV 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+00 5.37E-01 2.52E-01
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.44E+01 2.07E+01 1.70E+01	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.68E+01 1.53E+01	4KEV 5.04E+01 4.93E+01 4.63E+01 3.64E+01 2.59E+01 1.76E+01 1.17E+01	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01 1.28E+01 7.73E+00	Y, Z=80 16KEV 7.71E+01 7.14E+01 5.80E+01 3.09E+01 1.55E+01 8.13E+00 4.54E+00	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 9.72E+00 4.61E+00	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 2.41E+00 7.21E-01	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00 1.19E+00 5.89E-01 3.25E-01	256KEV 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+00 2.52E-01 1.34E-01
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.44E+01 1.70E+01 1.37E+01	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.68E+01 1.53E+01 1.12E+01	4KEV 5.04E+01 4.93E+01 4.63E+01 3.64E+01 2.59E+01 1.76E+01 7.84E+00	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-80E+01 3-09E+01 1-55E+01 4-54E+00 2-71E+00	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 9.72E+00 4.61E+00 2.46E+00 1.45E+00	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 2.41E+00 1.25E+00	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00 1.19E+00 5.89E-01 3.25E-01 1.94E-01	256KE V 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+00 5.37E-01 2.52E-01 1.34E-01 7.86E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.44E+01 1.07E+01 1.37E+01 1.09E+01	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.68E+01 1.53E+01 1.12E+01 8.19E+00	4KEV 5.04E+01 4.93E+01 4.63E+01 2.59E+01 1.76E+01 1.17E+01 7.84E+00 5.33E+00	MERCUR 8KEY 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00 3.13E+00	Y, Z=80 16KEV 7.71E+01 7.14E+01 5.80E+01 3.09E+01 1.55E+01 8.13E+00 4.54E+00 2.71E+00 1.73E+00	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 9.72E+00 4.61E+00 2.46E+00 1.45E+00 9.18E-01	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 2.41E+00 1.25E+00 7.21E-01 4.45E-01	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 1.19E+00 5.89E-01 3.25E-01 1.94E-01 1.24E-01	256KE V 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+00 5.37E-01 2.52E-01 1.34E-01
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 3.06E+01 3.04E+01 2.76E+01 2.76E+01 2.07E+01 1.70E+01 1.37E+01 1.09E+01 8.51E+00	2KEV 3.97E+01 3.92E+01 3.79E+01 2.30E+01 2.68E+01 1.53E+01 1.12E+01 8.19E+00 5.99E+00	4KEV 5.04E+01 4.93E+01 4.63E+01 3.64E+01 1.76E+01 1.7E+01 7.84E+00 5.33E+00 3.70E+00	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00 3.13E+00 2.12E+00	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-80E+01 3-09E+01 1-55E+01 8-13E+00 4-54E+00 2-71E+00 1-73E+00 1-17E+00	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 9.72E+00 4.61E+00 2.46E+00 9.18E+01 6.14E-01	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 2.41E+00 1.25E+01 7.21E-01 4.45E-01 2.90E-01	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00 1.19E+00 5.89E-01 3.25E-01 1.94E-01	256KEV 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+00 5.37E-01 2.52E-01 1.34E-01 7.86E-02 4.90E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.44E+01 1.70E+01 1.37E+01 1.09E+01 8.51E+00 5.64E+00	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.68E+01 1.53E+01 1.12E+01 8.19E+00 5.99E+00 4.41E+00 3.29E+00	4KEV 5.04E+01 4.93E+01 4.93E+01 2.59E+01 1.76E+01 1.17E+01 7.84E+80 5.33E+00 3.70E+00 2.63E+00	MERCUR 8KEY 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00 3.13E+00 2.12E+00 1.50E+00 1.11E+00	Y, Z=80 16KEV 7.71E+01 7.14E+01 5.80E+01 3.09E+01 1.55E+01 8.13E+00 4.54E+00 2.71E+00 1.73E+00 1.17E+00 8.32E-01 6.10E-01	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 9.72E+00 4.61E+00 2.46E+00 1.45E+08 9.18E-01 6.14E-01 4.28E-01 3.08E-01	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 1.25E+00 7.21E-01 4.45E-01 2.90E-01 1.99E-01 1.42E-01	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00 1.19E+00 5.89E-01 3.25E-01 1.94E-01 8.36E-02	256KE V 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+01 2.52E-01 1.34E-01 7.86E-02 3.22E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.07E+01 1.70E+01 1.09E+01 8.51E+00 5.64E+00 5.18E+00	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.06E+01 1.53E+01 1.12E+01 5.99E+00 4.41E+00 3.29E+00	4KEV 5.04E+01 4.93E+01 4.63E+01 2.59E+01 1.76E+01 1.76E+01 7.84E+00 5.33E+00 3.70E+00 2.63E+00 1.92E+00	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00 3.13E+00 2.12E+00 1.50E+00 1.11E+00	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-80E+01 3-09E+01 1-55E+01 8-13E+00 4-54E+00 2-71E+00 1-73E+00 1-17E+00 8-32E-01	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 9.72E+00 4.61E+00 2.46E+00 1.45E+00 9.18E-01 4.28E-01 3.08E-01 8.93E-02	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 2.41E+00 1.25E+00 7.21E-01 4.45E-01 1.99E-01	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00 1.19E+00 5.89E-01 3.25E-01 1.94E-01 1.24E-01 8.36E-02 5.83E-02	256KE V 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+01 2.52E-01 1.34E-01 7.86E-02 3.22E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.07E+01 1.70E+01 1.37E+01 1.09E+01 8.51E+00 5.64E+00 5.18E+00	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.66E+01 1.53E+01 1.12E+01 8.19E+00 5.99E+00 4.41E+00 3.29E+00 9.71E-01 4.41E-01	4KEV 5.04E+01 4.93E+01 3.64E+01 2.59E+01 1.76E+01 1.7E+01 7.84E+00 5.33E+00 3.70E+00 2.63E+00 1.92E+00 5.96E-01 2.72E-01	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00 3.13E+00 2.12E+00 1.50E+00 1.11E+00 3.44E-01	Y, Z=80 16KEV 7.71E+01 7.14E+01 5.80E+01 3.09E+01 1.55E+01 8.13E+00 4.54E+00 2.71E+00 1.73E+00 1.17E+00 8.32E-01 6.10E-01	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 9.72E+00 4.61E+00 2.46E+00 1.45E+08 9.18E-01 6.14E-01 4.28E-01 3.08E-01	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 1.25E+00 7.21E-01 4.45E-01 2.90E-01 1.99E-01 1.42E-01	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00 1.19E+00 5.89E-01 1.94E-01 1.24E-01 8.36E-02 5.83E-02	256KE V 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E-01 2.52E-01 1.34E-01 7.86E-02 4.90E-02 3.22E-02 2.21E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.07E+01 1.70E+01 1.37E+01 1.09E+01 8.51E+00 5.64E+00 5.18E+00 1.61E+00 6.60E-01 3.75E-01	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.68E+01 1.53E+01 1.12E+01 8.19E+00 4.41E+00 3.29E+00 9.71E-01 4.41E-01 2.49E-01	4KEV 5.04E+01 4.93E+01 3.64E+01 2.59E+01 1.76E+01 1.17E+01 7.84E+00 5.33E+00 2.63E+00 1.92E+00 2.72E-01 1.44E-01	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01 17.73E+00 4.82E+00 3.13E+00 1.50E+00 1.50E+00 1.11E+00 3.44E-01 1.46E-01 7.80E-02	Y, Z=80 16KEV 7.71E+01 7.14E+01 5.80E+01 3.09E+01 1.55E+01 8.13E+00 4.54E+00 2.71E+00 1.73E+00 1.17E+00 8.32E-01 6.10E-01	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 9.72E+00 4.61E+00 2.46E+00 1.45E+00 9.18E-01 4.28E-01 3.08E-01 8.93E-02	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 2.41E+00 1.25E+01 4.45E+01 2.90E-01 1.99E-01 1.42E-01 3.78E-02	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00 1.19E+00 5.89E-01 3.25E-01 1.94E-01 1.24E-01 8.36E-02 5.83E-02	256KEV 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+00 5.37E-01 2.52E-01 1.34E-01 1.86E-02 4.90E-02 3.22E-02 2.21E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.44E+01 1.07E+01 1.37E+01 1.09E+01 8.51E+00 5.18E+00 1.61E+00 1.61E+00 2.75E-01 2.56E-01	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.68E+01 1.53E+01 1.12E+01 8.19E+00 5.99E+00 4.41E+00 3.29E+00 9.71E-01 4.41E-01 2.49E-01 1.51E-01	4KEV 5.04E+01 4.93E+01 3.64E+01 2.59E+01 1.17E+01 7.84E+00 5.33E+00 1.92E+00 5.96E-01 2.72E-01 1.44E-01 8.62E-02	MERCUR 8KEY 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00 3.13E+00 2.12E+00 1.50E+00 1.11E+00 3.44E-01 1.46E-01 7.80E-02 4.83E-02	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-80E+01 3-09E+01 1-55E+01 8-13E+00 4-54E+00 2-71E+00 1-73E+00 1-17E+00 8-32E-01 6-10E-01 1-79E-01 7-84E-02	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 9.72E+00 4.61E+00 2.46E+00 9.18E-01 6.14E-01 4.28E-01 8.93E-02 3.08E-01 8.93E-02 3.69E-02 9.64E-03	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 2.41E+00 7.21E-01 4.49E-01 1.99E-01 1.99E-01 3.78E-02 1.40E-02	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 1.19E+00 1.19E+01 3.25E-01 1.94E-01 1.24E-01 8.36E-02 5.83E-02	256KE V 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+01 2.52E-01 1.34E-01 7.86E-02 3.22E-02 2.21E-02 5.14E-03 1.81E-03
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 25.0 35.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.76E+01 1.70E+01 1.37E+01 1.37E+01 6.51E+00 5.64E+00 5.18E+00 1.61E+00 6.60E-01 3.75E-01 1.56E-01 1.52E-01	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.68E+01 1.53E+01 1.12E+01 8.19E+00 4.41E+00 3.29E+00 9.71E-01 4.41E-01 2.49E-01	4KEV 5.04E+01 4.93E+01 3.64E+01 2.59E+01 1.76E+01 1.17E+01 7.84E+00 5.33E+00 2.63E+00 1.92E+00 2.72E-01 1.44E-01	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 1.28E+01 7.73E+00 4.82E+00 3.13E+00 2.12E+00 1.50E+00 1.11E+00 3.44E-01 1.46E-01 7.80E-02 4.83E-02 3.23E-02	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-80E+01 3-09E+01 1-55E+01 8-13E+00 4-54E+00 2-71E+00 8-32E-01 6-10E-01 1-79E-01 7-84E-02 4-21E-02 2-44FE-02 1-55E-02	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 9.72E+00 4.61E+00 2.46E+00 1.45E+00 9.18E-01 4.28E-01 3.08E-01 8.93E-02 3.69E-02	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 1.25E+00 7.21E-01 4.45E-01 1.99E-01 1.99E-01 1.42E-01 3.78E-02 1.40E-82 6.47E-03	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00 1.9E+00 1.94E-01 1.94E-01 8.36E-02 5.83E-02	256KE V 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+01 2.52E-01 1.34E-01 7.86E-02 3.22E-02 2.21E-02 5.14E-03 1.81E-03 8.13E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 35.0 40.0	1KEV 3.06E+01 3.04E+01 2.76E+01 2.76E+01 2.07E+01 1.70E+01 1.37E+01 1.09E+01 8.51E+00 5.64E+00 5.18E+00 1.61E+00 1.61E+00 1.62E-01 1.82E-01 1.82E-01	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.06E+01 1.53E+01 1.12E+01 1.12E+00 5.99E+00 4.41E+00 3.29E+00 9.71E-01 4.41E-01 2.49E-01 1.51E-01 1.51E-02 6.96E-02	4KEV 5.04E+01 4.93E+01 3.64E+01 2.59E+01 1.17E+01 7.84E+00 5.33E+00 1.92E+00 5.96E-01 2.72E-01 1.44E-01 8.62E-02	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00 2.12E+00 1.50E+00 1.11E+00 3.44E-01 7.80E-02 4.83E-02 4.83E-02 4.83E-02 4.83E-02 4.83E-02 4.83E-02 4.83E-02 4.83E-02	Y, Z=80 16KEV 7.71E+01 7.14E+01 5.80E+01 3.09E+01 1.55E+00 4.54E+00 2.71E+00 1.77E+00 1.17E+00 8.32E-01 6.10E-01 1.79E-01 7.84E-02 4.21E-02 2.47E-02	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 2.37E+00 4.61E+00 2.46E+00 1.45E+00 6.14E-01 4.28E-01 3.08E-01 8.93E-02 3.69E-02 1.78E-02 9.64E-03 5.79E-03 3.76E-03	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 1.25E+00 7.21E-01 4.45E-01 2.90E-01 1.99E-01 1.42E-01 3.78E-02 1.40E-03 3.49E-03	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00 5.89E-01 3.25E-01 1.94E-01 1.24E-01 1.24E-02 5.83E-02 1.40E-02 5.09E-03 2.33E-03 1.23E-03	256KE V 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E-01 2.52E-01 1.34E-01 7.86E-02 4.90E-02 3.22E-02 2.21E-02 5.14E-03 1.81E-03 8.13E-04 4.30E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 15.0 20.0 25.0 36.0 45.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.07E+01 1.70E+01 1.37E+01 1.09E+01 8.51E+00 5.64E+00 5.18E+00 1.61E+00 1.56E-01 1.75E-01 1.75E-01 1.82E-01 1.82E-01 1.82E-01	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.06E+01 1.53E+01 1.12E+01 8.19E+00 4.41E+00 3.29E+00 9.71E-01 4.41E-01 2.49E-01 1.51E-01 9.83E-02 5.31E-02	4KEV 5.04E+01 4.93E+01 3.64E+01 2.59E+01 1.76E+01 1.17E+01 7.84E+00 5.33E+00 2.63E+00 1.92E+00 5.96E-01 2.72E-01 1.44E-01 8.62E-02 4.05E-02 2.97E-02	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 1.28E+01 7.73E+00 4.82E+00 3.13E+00 2.12E+00 1.50E+00 1.11E+00 3.44E-01 1.46E-01 7.80E-02 4.83E-02 3.23E-02	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-80E+01 3-09E+01 1-55E+01 8-13E+00 4-54E+00 2-71E+00 1-77E+00 8-32E-01 6-10E-01 1-79E-01 7-84E-02 4-21E-02 2-47E-02 1-55E-02 1-03E-02 7-18E-03	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 2.72E+00 4.61E+00 1.45E+00 9.18E-01 4.28E-01 3.08E-01 8.93E-02 3.69E-02 3.69E-02 3.78E-02 3.78E-03 5.79E-03	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 1.49E+00 2.41E+00 1.25E+00 1.45E+01 2.90E+01 1.42E+01 3.78E+02 1.42E+03 3.49E+03 2.09E+03	128KEV 1.58E+02 9.55E+01 3.96E+00 2.79E+00 1.19E+00 5.89E-01 3.25E-01 1.24E-01 8.36E-02 5.83E-02 1.40E-02 5.83E-03 2.33E-03 7.28E-04	256KE V 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+00 5.37E-01 2.52E-01 1.34E-01 1.34E-02 4.90E-02 3.22E-02 2.21E-02 5.14E-03 1.81E-03 4.30E-04 2.54E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 35.0 45.0 45.0 50.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.07E+01 1.70E+01 1.37E+01 1.09E+01 6.64E+00 5.18E+00 1.61E+00 6.60E-01 3.75E-01 1.82E-01 1.82E-01 1.82E-01 1.82E-02 5.17E-02	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.06E+01 1.53E+01 1.12E+01 1.12E+00 5.99E+00 4.41E+00 3.29E+00 9.71E-01 4.41E-01 2.49E-01 1.51E-01 1.51E-02 6.96E-02	4KEV 5.04E+01 4.93E+01 3.64E+01 2.59E+01 1.17E+01 7.84E+00 5.33E+00 1.92E+00 2.63E+00 1.92E+00 2.72E-01 1.44E-01 8.62E-02 5.73E-02 4.05E-02 2.97E-02 2.26E-02	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00 2.12E+00 1.50E+00 1.11E+00 3.44E-01 7.80E-02 4.83E-02 4.83E-02 4.83E-02 4.83E-02 4.83E-02 4.83E-02 4.83E-02 4.83E-02	Y+ Z=80 16KEV 7-71E+01 7-14E+01 3-09E+01 3-09E+01 8-13E+00 4-54E+00 2-71E+00 8-32E-01 6-10E-01 1-79E-01 7-84E-02 4-21E-02 1-55E-02 1-03E-02	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 2.37E+00 4.61E+00 2.46E+00 1.45E+00 6.14E-01 4.28E-01 3.08E-01 8.93E-02 3.69E-02 1.78E-02 9.64E-03 5.79E-03 3.76E-03	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 2.41E+00 7.21E-01 2.90E-01 1.99E-01 1.99E-01 3.78E-02 6.47E-03 3.49E-03 1.34E-03	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 1.19E+00 1.19E+01 3.25E-01 1.24E-01 1.24E-01 8.36E-02 5.83E-02 1.40E-02 5.09E-03 2.33E-03 1.23E-04 4.68E-04	256KEV 2.39E+02 9.57E+01 2.80E+00 4.59E+00 1.37E+01 2.52E-01 1.34E-01 2.52E-02 3.22E-02 2.21E-02 5.14E-03 1.81E-03 8.13E-04 4.30E-04 4.30E-04 4.50E-04 1.64E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 25.0 40.0 450.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.07E+01 1.70E+01 1.37E+01 1.09E+01 8.51E+00 5.64E+00 5.18E+00 1.61E+00 1.56E-01 1.75E-01 1.75E-01 1.82E-01 1.82E-01 1.82E-01	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.06E+01 1.53E+01 1.12E+01 8.19E+00 4.41E+00 3.29E+00 9.71E-01 4.41E-01 2.49E-01 1.51E-01 9.83E-02 5.31E-02	4KEV 5.04E+01 4.93E+01 3.64E+01 2.59E+01 1.76E+01 1.17E+01 7.84E+00 5.33E+00 2.63E+00 1.92E+00 5.96E-01 2.72E-01 1.44E-01 8.62E-02 4.05E-02 2.97E-02	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00 3.13E+00 3.12E+00 1.50E+00 1.11E+00 3.44E-01 7.80E-02 4.83E-02 2.27E-02 1.68E-02	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-80E+01 3-09E+01 1-55E+01 8-13E+00 4-54E+00 2-71E+00 1-77E+00 8-32E-01 6-10E-01 1-79E-01 7-84E-02 4-21E-02 2-47E-02 1-55E-02 1-03E-02 7-18E-03	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 2.72E+00 4.61E+00 2.46E+00 1.45E+01 3.08E-01 3.08E-01 8.93E-02 1.78E-02 9.64E-03 3.76E-03 2.58E-03	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 1.25E+00 7.21E-01 4.49E-01 1.99E-01 1.42E-01 3.78E-02 6.47E-03 3.49E-03 3.49E-03 3.49E-03 3.49E-03 3.17E-04	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00 1.19E+00 5.89E-01 1.94E-01 1.94E-01 8.36E-02 5.83E-02 1.40E-02 5.83E-03 7.28E-04 4.68E-04 3.21E-04	256KE V 2.39E+02 9.57E+01 2.89E+00 4.57E+00 5.37E-01 2.52E-01 1.34E-01 7.86E-02 3.22E-02 2.21E-02 5.14E-03 1.81E-03 8.13E-04 4.30E-04 1.64E-04 1.12E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 35.0 45.0 45.0 50.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.07E+01 1.70E+01 1.37E+01 1.09E+01 6.64E+00 5.18E+00 1.61E+00 6.60E-01 3.75E-01 1.82E-01 1.82E-01 1.82E-01 1.82E-02 5.17E-02	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.68E+01 1.53E+01 1.12E+01 8.19E+00 4.41E+00 3.29E+00 4.41E-01 2.49E-01 1.51E-01 9.71E-01 9.83E-02 6.96E-02 6.96E-02 6.96E-02 6.96E-02	4KEV 5.04E+01 4.93E+01 3.64E+01 2.59E+01 1.17E+01 7.84E+00 5.33E+00 1.92E+00 2.63E+00 1.92E+00 2.72E-01 1.44E-01 8.62E-02 5.73E-02 4.05E-02 2.97E-02 2.26E-02	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 1.17E+01 1.773E+00 4.82E+00 3.13E+00 1.50E+00 1.50E+00 1.11E+00 3.44E-01 7.80E-02 4.83E-02 3.23E-02 2.27E-02 1.68E-02 1.29E-02	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-809E+01 3-809E+01 1-55E+00 4-54E+00 2-71E+00 1-73E+00 1-17E+01 1-17E+01 1-79E+01 1-79E+01 1-79E+01 1-79E+02 1-21E-02 1-35E-02 1-35E-02 1-03E-03 5-21E-03	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 2.30E+01 4.61E+00 2.46E+00 1.45E+00 9.18E-01 3.08E-01 8.93E-02 1.78E-02 9.64E-03 5.79E-03 3.76E-03 2.58E-03 1.86E-03	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 5.41E+00 1.25E+00 7.21E-01 4.45E-01 1.99E-01 1.99E-01 1.42E-01 3.78E-02 6.47E-03 3.49E-03 2.09E-03 1.34E-03 9.17E-04 6.59E-04	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 2.79E+00 5.89E-01 3.25E-01 1.94E-01 1.94E-01 1.94E-02 5.83E-02 1.40E-02 5.83E-03 7.28E-04 4.68E-04 2.31E-04	256KEV 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E-01 2.52E-01 1.34E-01 7.86E-02 3.22E-02 2.21E-02 5.14E-03 1.81E-03 8.13E-04 4.30E-84 2.54E-04 1.64E-04 8.02E-05
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 9.0 15.0 25.0 35.0 45.0 60.0 70.0 80.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.44E+01 2.07E+01 1.70E+01 1.37E+01 1.09E+01 6.51E+00 5.64E+00 5.18E+00 1.61E+00 6.60E-01 3.75E-01 2.56E-01 1.24E-01 8.03E-02 5.17E-02 5.06E-02 4.17E-02	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.06E+01 1.53E+01 1.12E+01 5.99E+00 4.41E+00 3.29E+00 4.41E-01 2.49E-01 1.51E-01 4.41E-01 2.49E-01 1.51E-02 4.24E-02 2.73E-02 4.24E-02 1.51E-02 1.51E-02 1.51E-02 1.51E-02	4KEV 5.04E+01 4.93E+01 3.64E+01 2.59E+01 1.76E+01 1.76E+01 1.17E+00 2.63E+00 2.63E+00 1.92E+00 5.96E-01 2.72E-01 1.44E-01 8.62E-02 4.05E-02 2.97E-02 2.97E-02 2.159E-02 1.19E-02	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00 2.12E+00 1.50E+00 1.11E+00 3.44E-01 1.46E-01 7.80E-02 3.23E-02 2.27E-02 1.26E-02 3.23E-02 2.27E-02 1.29E-02 8.26E-03	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-80E+01 3-09E+01 1-55E+00 4-54E+00 1-73E+00 1-77E+00 1-17E+00 8-32E-01 6-10E-01 1-79E-01 7-84E-02 4-21E-02 1-55E-02 1-55E-02 1-55E-02 1-55E-02 1-55E-03 3-00E-03	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 2.72E+00 4.61E+00 1.45E+00 6.14E-01 4.28E-01 3.08E-01 8.93E-02 3.69E-02 3.76E-03 5.79E-03 3.76E-03 1.86E-03 1.86E-03 1.08E-03	64KEV 1.18E+02 9.04E+01 5.049E+01 1.49E+01 1.41E+00 2.41E+00 1.25E-01 2.90E-01 1.42E-01 3.78E-02 1.42E-03 3.78E-03 3.78E-03 3.78E-03 3.78E-03 3.78E-03 3.78E-03	128KEV 1.58E+02 9.55E+01 3.96E+00 2.79E+00 1.19E+00 5.89E-01 1.24E-01 8.36E-02 1.40E-02 5.83E-02 1.40E-03 2.33E-03 7.28E-04 4.68E-04 3.21E-04 1.33E-04	256KE V 2.39E+02 9.57E+01 2.80E+01 4.59E+00 1.37E+00 5.37E-01 2.52E-01 1.34E-01 1.34E-02 4.90E-02 3.22E-02 2.21E-02 5.14E-03 1.813E-04 2.54E-04 1.64E-04 1.12E-05 4.54E-05
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 20.0 25.0 335.0 40.0 45.0 60.0 70.0	1KEV 3.06E+01 3.04E+01 2.76E+01 2.76E+01 2.07E+01 1.70E+01 1.37E+01 1.09E+01 8.51E+00 5.64E+00 5.18E+00 1.61E+00 1.61E+00 1.82E-01 1.82E-01 1.82E-01 1.82E-02 5.17E-02 5.06E-02	2KEV 3.97E+01 3.92E+01 3.79E+01 3.30E+01 2.06E+01 1.53E+01 1.12E+00 5.99E+00 4.41E+00 3.29E+00 9.71E-01 4.41E-01 2.49E-01 1.51E-01 9.83E-02 6.96E-02 5.34E-02 4.24E-02 4.27E-02 1.61E-02	4KEV 5.04E+01 4.93E+01 3.64E+01 2.59E+01 1.76E+01 1.7E+01 7.84E+00 3.70E+00 2.63E+00 1.92E+00 5.96E-01 2.72E-01 1.44E-01 8.62E-02 5.73E-02 4.05E-02 2.26E-02 1.50E-02 1.50E-02 1.19E-02	MERCUR 8KEV 6.28E+01 6.03E+01 3.60E+01 3.60E+01 1.28E+01 7.73E+00 4.82E+00 1.12E+00 1.50E+00 1.11E+00 3.44E-01 7.80E-02 4.83E-02 4.83E-02 4.83E-02 4.83E-02 5.55E-03	Y+ Z=80 16KEV 7-71E+01 7-14E+01 3-09E+01 3-09E+01 8-13E+00 4-54E+00 2-71E+00 1-73E+00 1-73E+01 1-79E-01 7-84E-02 4-21E-02 1-57E-02 1-57E-02 1-57E-02 1-57E-03 5-21E-03 5-21E-03 3-21E-03 3-21E-03 3-21E-03 3-21E-03 3-21E-03 3-21E-03 3-21E-03 3-21E-03 3-21E-03 3-21E-03 3-21E-03 3-21E-03 3-21E-03 3-21E-03	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+00 4.61E+00 1.45E+00 9.18E-01 4.28E-01 3.08E-01 8.93E-02 3.69E-02 1.78E-02 3.69E-03 3.76E-03 3.76E-03 1.86E-03 1.86E-03 7.14E-04	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 2.41E+00 1.25E+01 2.5E+01 2.90E-01 1.92E-01 1.92E-01 3.78E-02 3.49E-03 3.49E-03 3.49E-03 1.34E-03 9.17E-04 6.59E-04 2.52E-04	128KEV 1.58E+02 9.55E+01 3.96E+01 8.60E+00 1.19E+00 1.19E+01 3.25E-01 1.24E-01 8.36E-02 5.83E-02 1.40E-02 5.83E-02 1.40E-03 2.33E-03 7.28E-04 4.68E-04 3.21E-04 4.68E-04 8.56E-05	256KE V 2.39E+02 9.57E+01 2.80E+00 4.59E+00 5.37E+01 2.52E-01 1.34E-02 4.90E-02 3.22E-02 2.21E-02 5.14E-03 1.81E-03 4.30E-04 4.30E-04 4.50E-04 1.64E-04 1.64E-04 1.64E-05 2.84E-05
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 20.0 25.0 35.0 40.0 450.0 60.0 70.0 80.0	1KEV 3.06E+01 3.04E+01 2.98E+01 2.76E+01 2.44E+01 1.07E+01 1.37E+01 1.37E+01 1.37E+00 5.64E+00 5.18E+00 1.61E+00 1.575E-01 1.75E-01 1.24E-01 1.24E-01 1.24E-01 1.24E-01 2.50E-02 2.10E-02	2KEV 3.97E+01 3.92E+01 3.79E+01 2.68E+01 2.68E+01 1.53E+01 1.12E+01 1.12E+00 5.99E+00 4.41E+00 3.29E+00 4.49E-01 1.51E-01 9.83E-02 6.96E-02 4.24E-02 1.61E-02 1.06E-02 1.06E-02	4KEV 5.04E+01 4.93E+01 4.93E+01 2.59E+01 1.76E+01 1.76E+01 1.78E+00 5.33E+00 2.63E+00 1.92E+00 1.92E+01 2.72E-01 1.44E-01 1.44E-01 1.44E-02 2.97E-02 2.97E-02 2.97E-02 2.97E-02 2.97E-02 1.92E-02 1.93E-02 2.97E-02	MERCUR 8KEY 6.28E+01 6.03E+01 5.37E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00 3.13E+00 2.12E+00 1.50E+00 1.11E+00 3.44E-01 1.460E-02 3.23E-02 2.27E-02 1.68E-02 3.23E-02 2.26E-03 5.55E-03 3.80E-03 2.69E-03	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-80E+01 3-09E+01 3-09E+01 8-13E+00 4-54E+00 1-73E+00 1-73E+00 1-17E+00 8-32E-01 1-79E-01 7-84E-02 4-21E-02 1-55E-02 1-55E-02 1-55E-02 1-55E-02 1-55E-03 3-00E-03 1-38E-03 1-38E-03 1-38E-03	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 2.72E+00 4.61E+00 1.45E+01 6.14E-01 4.28E-01 3.08E-01 8.93E-02 3.76E-03 3.76E-03 3.76E-03 3.76E-03 7.14E-04 5.19E-04	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 1.41E+00 2.41E+00 1.25E-01 2.90E-01 1.99E-01 1.42E-01 3.78E-02 3.78E-03 3.78E-03 3.78E-03 3.78E-03 3.78E-04 1.79E-04 1.79E-04	128KEV 1.58E+02 9.55E+01 3.96E+01 2.79E+00 1.19E+00 5.89E-01 1.24E-01 8.363E-02 1.40E-02 5.83E-03 7.28E-04 4.68E-04 3.21E-04 4.68E-04 3.21E-04 5.88E-05 5.88E-05 5.88E-05 5.88E-05	256KE V 2.39E+02 9.57E+01 2.80E+00 4.59E+00 1.37E+00 5.37E-01 2.52E-01 1.34E-01 1.34E-02 4.90E-02 3.22E-02 2.21E-02 5.14E-03 1.813E-04 2.54E-04 1.12E-04 1.12E-05 4.54E-05 1.90E-05 1.90E-05 1.90E-05
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 335.0 40.0 450.0 60.0 70.0 80.0	1KEV 3.06E+01 3.04E+01 2.76E+01 2.76E+01 2.07E+01 1.70E+01 1.37E+01 1.37E+00 5.64E+00 5.18E+00 1.61E+00 6.60E-01 3.75E-01 1.56E-01 1.56E-01 1.54E-01 8.03E-02 5.17E-02 5.06E-02 4.17E-02 3.38E-03	2KEV 3.97E+01 3.92E+01 3.70E+01 2.06E+01 1.53E+01 1.12E+00 5.99E+00 4.41E+00 3.29E+00 4.41E-01 2.49E-01 4.49E-01 1.51E-02 4.24E-02 4.24E-02 4.24E-02 4.24E-02 1.61E-02 1.61E-02 1.61E-02 1.66E-02	4KEV 5.04E+01 4.93E+01 3.64E+01 3.64E+01 1.76E+01 1.76E+01 7.84E+00 3.70E+00 2.63E+00 1.92E+00 1.92E+01 2.72E-01 1.44E-01 8.62E-02 2.73E-02 4.05E-02 2.26E-02 1.50E-02 1.50E-02 1.50E-02 1.50E-03 6.23E-03	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 3.60E+01 1.28E+01 7.73E+00 4.82E+00 1.50E+00 1.11E+00 3.13E+00 3.13E+00 2.12E+00 1.11E+00 3.13E+00 2.12E+00 1.11E+00 3.13E+00 3.13E-01 3.46E-01 7.80E-02 4.83E-02 3.23E-02 2.27E-02 1.29E-03 3.55E-03 3.80E-03 2.13E-03	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-80E+01 3-09E+01 3-13E+00 4-74E+00 2-71E+00 1-77E+00 1-17E+00	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 2.30E+01 4.61E+00 1.45E+00 9.18E-01 4.28E-01 4.28E-01 3.08E-01 8.93E-02 3.78E-02 1.78E-03 3.76E-03 3.76E-03 1.86E-03 1.86E-03 1.86E-03 1.96E-04 4.09E-04 3.45E-04	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+01 1.49E+00 2.41E+00 1.25E+01 2.90E-01 1.99E-01 1.42E-01 3.78E-02 1.47E-03 2.49E-03 2.49E-03 2.49E-03 2.49E-04 1.34E-04 1.36E-04 1.36E-04 1.08E-04	128KEV 1.58E+02 9.55E+01 3.96E+00 8.60E+00 1.19E+00 5.85E-01 3.24E-01 8.36E-02 1.24E-01 8.36E-02 1.49E-01 8.36E-02 1.49E-01 8.36E-02 1.49E-01 8.36E-02 5.83E-03 7.28E-04 4.68E-04 2.31E-04 4.68E-05 5.88E-05	256KEV 2.39E+02 9.57E+01 2.80E+00 4.59E+00 5.37E-01 2.52E-01 1.34E-02 4.90E-02 3.22E-02 2.21E-02 5.14E-03 1.81E-04 4.30E-04 4.30E-04 1.64E-04 1.64E-05 2.84E-05 1.90E-05 2.84E-05 1.90E-05 2.84E-05 1.90E-05 2.84E-05 1.90E-05
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 335.0 40.0 45.0 50.0 60.0 70.0 80.0 100.0	1KEV 3.06E+01 3.04E+01 2.76E+01 2.76E+01 2.44E+01 2.07E+01 1.70E+01 1.09E+01 8.51E+00 5.64E+00 5.18E+00 1.61E+00 6.60E-01 3.75E-01 2.56E-01 1.82E-01 1.82E-01 1.82E-02 3.81E-02 4.17E-02 1.10E-02 3.88E-03 3.89E-02	2KEV 3.97E+01 3.92E+01 3.70E+01 3.30E+01 2.06E+01 1.53E+01 1.12E+01 5.99E+00 4.41E+00 3.29E+00 4.41E-01 2.49E-01 1.51E-01 4.41E-01 2.49E-01 1.51E-02 4.24E-02 4.24E-02 1.66E-02 1.66E-02 1.66E-02 1.66E-02 1.99E-02	4KEV 5.04E+01 4.93E+01 3.64E+01 2.59E+01 1.76E+01 1.76E+01 1.17E+00 7.84E+00 2.63E+00 1.92E+00 5.96E-01 2.72E-01 1.44E-01 8.62E-02 4.05E-02 2.97E-02 2.97E-02 2.96E-02 1.50E-02 1.50E-02 1.50E-03 6.23E-03 3.95E-03	MERCUR 8KEV 6.28E+01 6.03E+01 3.60E+01 3.60E+01 2.17E+01 1.28E+01 7.73E+00 4.82E+00 2.12E+00 1.50E+00 1.11E+00 3.44E-01 7.80E-02 4.83E-02 4.83E-02 2.27E-02 1.68E-02 1.29E-03 3.80E-03 2.69E-03 2.13E-03 2.07E-03	Y+ Z=80 16KEV 7-71E+01 7-14E+01 3-09E+01 3-09E+01 3-13E+00 4-54E+00 2-71E+00 1-73E+00 1-73E+01 1-79E-01 7-84E-02 4-21E-02 1-55E-02 1-55E-02 1-55E-03 3-03E-03 1-38E-03 1-38E-03 1-38E-03 1-38E-03 1-38E-04 9-35E-04	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+00 4.61E+00 2.46E+00 1.45E+01 6.14E-01 4.28E-01 3.08E-01 8.93E-02 1.78E-02 3.69E-03 3.76E-03 3.76E-03 1.86E-03 1.86E-03 3.76E-04 4.09E-04 3.45E-04 3.45E-04 3.66E-04	64KEV 1.18E+02 9.04E+01 5.04E+01 1.49E+00 2.41E+00 1.25E+01 2.5E+01 2.90E-01 1.99E-01 1.99E-01 3.78E-03 3.49E-03 3.49E-03 3.49E-03 1.34E-04 4.59E-04	128KEV 1.58E+02 9.55E+01 3.96E+00 8.60E+00 1.19E+00 5.89E-01 3.25E-01 1.24E-01 8.36E-02 1.40E-03 2.33E-03 1.23E-04 4.68E-04 3.21E-04 1.35E-05 5.88E-05 4.27E-05 3.24E-05	256KEV 2.39E+02 9.57E+01 2.80E+00 4.59E+00 5.37E-01 2.52E-01 1.34E-02 4.90E-02 3.22E-02 2.21E-02 5.14E-03 1.81E-03 8.13E-04 4.30E-04 4.30E-04 4.30E-04 1.64E-04 1.12E-04 8.02E-05 1.90E-05 1.90E-05 1.90E-05 1.90E-05 1.90E-06 7.19E-06
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ANGLE 0.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1KEV 3.06E+01 3.04E+01 2.76E+01 2.76E+01 2.07E+01 1.70E+01 1.37E+01 1.37E+01 1.51E+00 5.64E+00 5.18E+00 1.61E+00 1.61E+00 1.62E-01 1.24E-01 2.56E-01 1.24E-02 3.17E-02 3.38E-02 4.17E-02 3.38E-02 4.17E-02 1.10E-02 1.10E-02 1.10E-02 1.10E-02 1.326E-01	2KEV 3.97E+01 3.92E+01 3.30E+01 2.06E+01 1.152E+00 5.32E+00 5.99E+00 4.49E-01 4.49E-01 4.49E-01 4.49E-01 4.49E-02 4.24E-03 6.48E-03 6.48E-03 6.48E-01	4KEV 5.04E+01 4.93E+01 4.93E+01 3.64E+01 1.76E+01 1.76E+01 7.84E+00 3.70E+00 2.63E+00 1.92E+01 2.72E-01 1.44E-02 2.26E-02 4.05E-02 2.26E-02 1.19E-02 1.19E-02 1.03E-03 3.13E-03	MERCUR 8KEV 6.28E+01 6.03E+01 3.60E+01 1.28E+01 7.73EE+00 4.82E+00 1.50E+00 1.51E+00 1.51E+00 1.51E+00 1.51E+00 1.51E+00 1.51E+00 1.51E+00 1.51E+00 1.51E+00 1.51E+00 1.51E+00 1.50E+00 1	Y+ Z=8KEV 7-71E+01 7-14E+01 5-80E+01 1-59E+01 8-13E+00 1-59E+01 8-13E+00 1-71E+00 1-17E	32KEV 9.45E+01 8.19E+01 5.72E+01 2.30E+01 2.30E+00 4.61E+00 1.46E+01 4.61E+01 4.61E+01 4.28E-01 4.28E-01 4.28E-01 4.28E-01 3.08E-03 3.76E-03 3.76E-03 3.76E-03 7.14E-04 4.09E-04 3.86E-04 2.70E-04 4.09E-04 3.86E-04 2.70E-04	648E+02 9.04E+01 5.049E+01 5.049E+00 2.41E+00 1.425E-01 2.41E+00 1.25E-01 2.90E-01 1.425E-01 3.780E-01 3.780E-03 3.49E-04 1.378E-04 1.378E-04 1.378E-04 1.378E-04 1.378E-04 1.378E-05 5.579E-05 5.57E-05 5.57E-05 5.57E-05 5.57E-05	128E+01 128E+01 3.95E+01 3.96E+01 8.69E+00 1.19E+00 5.29E-01 1.24E-01 8.363E 0E-02 1.24E-02 1.24E-02 023 1.24E-02 1.24E-02 025.333E-04 4.68E-04 2.31E-04 8.58E-04 4.68E-05 5.87E	256KE V 2.39E+02 9.57E+01 2.589E+00 4.537E-01 1.37E-01 1.37E-01 1.37E-01 1.37E-02 2.21E-02 2.22E-02 2.21E-02 3.36E-02 4.90E-02 3.22E-02 5.18E-04 4.90E-04 4.90E-04 4.90E-04 4.90E-05 1.81SE-04 4.90E-05 1.81SE-05 1.81SE-05 1.81SE-05 1.81SE-05 1.81SE-05 1.81SE-05 2.84E-05 1.93E-05 2.84E-06 2.84E-06 2.94E-06 2.94E-06 2.94E-06 2.94E-06 2.94E-06 2.94E-06 2.94E-06
ANGLE 0.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.5 1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1KEV 3.06E+01 3.04E+01 2.76E+01 2.76E+01 2.44E+01 1.37E+01 1.37E+01 1.37E+00 5.64E+00 5.18E+00 1.61E+00 1.57E-01 1.75E-01 1.82E-01 1.24E-01 2.56E-02 4.17E-02 3.81E-02 5.17E-02 3.88E-03 3.88E-03 2.75E-02 1.71E-02 1.71E-02 1.71E-02 1.71E-01 2.59E-01	2KEV 3.97E+01 3.92E+01 3.30E+01 2.68E+01 1.53E+01 1.52E+00 5.99E+00 4.419E+00 5.99E+00 4.429E-01 2.45E-01 9.71E-01 9.83E-02 6.96E-02 1.51E-02 1.61E-02 1.61E-02 1.86E-02 1.89E-03 6.48E-03 3.98E-02 1.53E-01	4KEV 5.04E+01 4.93E+01 4.93E+01 2.59E+01 1.76E+01 1.76E+01 7.84E+00 3.70E+00 2.63E+00 2.63E+00 1.92E-01 1.44E-01 8.62E-02 4.97E-02 4.97E-02 4.97E-02 4.97E-02 1.59E-02 3.73E-03 6.23E-03 6.23E-03 6.23E-03 1.07E-02 1.87E-02 2.74E-02 3.79E-02	MERCUR 8KEV 6.28E+01 6.03E+01 5.37E+01 2.17E+01 1.28E+01 7.72E+00 4.82E+00 2.12E+00 1.50E+00 1.11E+00 3.44E-01 1.460E-02 3.27E-02 2.27E-02 1.269E-03 5.55E-03 3.80E-03 2.07E-03 3.80E-03 2.17E-03 3.80E-03	Y+ Z=80 16KEV 7-71E+01 7-14E+01 5-80E+01 3-09E+01 8-13E+000 4-54E+000 1-73E+000 1-73E+000 1-73E+000 1-77E+001 7-84E-01 1-79E-01 7-84E-02 1-55E-02 1-55E-02 1-55E-03 3-00E-03 1-38E-03	32KEV 9.45E+01 8.19E+01 5.72E+00 4.61E+00 2.465E+01 6.14E-01 4.45E+01 6.14E-01 4.28E-01 8.93E-02 3.08E-03 3.76E-03 3.76E-03 3.76E-03 3.76E-04 4.06E-04	648E+01 5.44E+01 5.44E+01 5.44E+01 1.49E+01 1.49E+01 1.425E-01 1.426E-	128E+01 128E+01 3.95E+01 3.96E+01 2.79E+00 1.19E-01 3.95E-01 1.24E-02 1.24E-01 8.85E-01 1.24E-02 1.24E-02 1.24E-01 8.85E-01 1.24E-02 1.24E-02 1.24E-02 1.24E-02 1.24E-02 1.24E-05 1.24E-05 1.24E-05 1.24E-05 1.24E-05 1.35E-05 1.35E-05 1.36E-05	256KE V 2.39E+01 2.56E+01 2.56E+01 2.57E+01 2.57E+01 2.57E+01 1.37E+01 1.37E+01 1.37E+02 2.32E-02 2.34E-02 3.22E-02 3.34E-02 3.48E-04 1.64E-04 1.64E-04 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-05 1.64E-06 1.64E-0

TABLE I. Theoretical Differential, Total, and Transport Electron-Atom Elastic Cross Sections

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				LEAD,					
ANGLE	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
0.0 0.5	4.44E+01 4.40E+01	5.66E+01 5.57E+01	7.07E+01 6.87E+01	8.68E+01 8.22E+01	1.05E+02 9.51E+01	1.27E+02 1.06E+02	1.58E+02 1.12E+02	2.10E+02 1.11E+02	3.17E+02 1.04E+02
1.0	4.29E+01	5.32E+01	6.31E+01	7.06E+01	7.28E+01	6.75E+01	5.57E+01	4.15E+01	2.88E+01
2.0	3.88E+01	4.46E+01	4.66E+01	4.30E+01	3.43E+01	2.41E+01	1.53E+01	8.85E+00	4.72E+00
3.0	3.32E+01	3.42E+01	3.08E+01	2.38E+01	1.62E+01	9.956+00	5.56E+00	2.85E+00	1.40E+00
4.0	2.70E+01	2.48E+01	1.96E+01	1.35E+01	8.33E+00	4.72E+00	2.46E+00	1.21E+00	5.54E-01
5.0	2.13E+01	1.76E+01	1.25E+01	7.96E+00	4.64E+00	2.51E+00	1.28E+00	6.03E-01	2.60E-01
6.0	1.64E+01	1.23E+01	8.17E+00	4.94E+00	2.77E+00	1.47E+00	7.35E-01	3.33E-01	1.39E-01
7.0	1.25E+01	8.74E+00	5.49E+00	3-20E+00	1.77E+00	9.33E-U1	4.54E-01	2.00E-01	8.15E-02
8.0	9.47E+00	6.28E+00	3.80E+00	2.17E+00	1.19E+00	6.25E-01	2.97E-01	1.28E-01	5.09E-02
9.0	7.21E+00	4.58E+00	2.70E+00	1.53E+00	8.45E-01	4.36E-01	2.03E-01	8.63E-02	3.34E-02
10.0	5.52E+00	3.41E+00	1.97E+00	1.12E+00	6.20E-01	3.14E-01	1.45E-01	6.03E-02	2.29E-02
		4 045.00		7 505 54		0 075 00	3 005 00		
15.0	1.708+00	1.01E+00	6.06E-01	3.52E-01	1-82E-01	9.07E-02	3-90E-02	1.45E-02	5.33E-03
20.0	6.98E-01	4.52E-01	2.79E-01	1.50E-01	7.90E-02	3.79E-02	1.45E-02	5.26E-03	1.88E-03
25.0	3.85E-01	2.55E-01	1.498-01	7.89E-02 4.85E-02	4.26E-02 2.52E-02	1.84E-02 9.99E-03	6.68E-03 3.60E-03	2.41E-03 1.27E-03	8.43E-04 4.46E-04
30.0 35.0	2.62E-01 1.89E-01	1.56E-01 1.01E-01	8.86E-02 5.85E-02	3.24E-02	1.59E-02	5.998-03	2.14E-03	7.51E-04	2.64E-04
40.0	1.33E-01	7.13E-02	4.12E-02	2.29E-02	1.06E-02	3.87E-03	1.38E-03	4.82E-84	1.70E-04
45.0	8.71E-02	5.42E-02	3.01E-02	1.69E-02	7.44E-03	2.66E-03	9.42E-04	3.31E-04	1.17E-04
50.0	5.458-02	4.34E-02	2.28E-02	1.31E-02	5.40E-03	1.916-03	6.79E-04	2.39E-04	8.38E-05
60.0	3.54E-02	2.86E-02	1.48E-02	8.49E-03	3.11E-03	1.11E-03	3.97E-04	1.40E-04	4.81E-05
70.0	5.13E-02	1.69E-02	1.17E-02	5.79E-03	1.98E-03	7.31E-04	2.61E-04	9-02E-05	3.04E-05
80.0	4.77E-02	1.02E-02	1.04E-02	3.98E-03	1.40E-03	5.33E-04	1.87E-04	6.24E-05	2.04E-05
90.0	1.54E-02	1.16E-02	8.97E-03	2.78E-03	1.10E-03	4.22E-04	1.43E-04	4.55E-05	1.43E-05
100.0	1.76E-03	1.84E-02	6.72E-03	2.14E-03	9.78E-04	3.59E-04	1.15E-04	3.47E-05	1.04E-05
110.0	3.58E-02	2.14E-02	4.18E-03	2.04E-03	9.55E-04	3.22E-04	9.65E-05	2.75E-05	7.86E-06
128.0	7.77E-02	1.42E-02	2.96E-03	2.42E-03	9.92E-04	3.01E-04	8.40E-05	2.25E-05	6.07E-06
130.0	6.91E-02	2.59E-03	4.81E-03	3.19E-03	1.06E-03	2.89E-04	7.50E-05	1.91E-05	4.79E-06
140.0	2.07E-02	4.92E-03	1.06E-02	4.19E-03	1.14E-03	2.83E-04	6.92E-05	1.66E-05	3.89E-06
150.0	1.50E-02	3.80E-02	1.94E-02	5.24E-03	1.21E-03	2.80E-04	6.56E-05	1.49E-05	3.28E-06
160.0	1.09E-01	9.86E-02	2.90E-02	6.16E-03	1.26E-03	2.79E-04	6.31E-05	1.39E+05	2.89E-06
170.0	2.50E-01	1.59E-01	3.64E-02	6.79E-03	1.30E-03	2.79E-04	6.11E-05	1.33E-05	2.67E-06
180.0	3.18E-01	1.84E-01	3.92E-02	7.01E-03 1.03E+00	1.31E-03 6.95E-01	2.78E-04 4.60E-01	6.04E-05 3.02E-01	1.32E-05 2.01E-01	2.59E-06 1.42E-01
TOTAL Trans	2.89E+00 6.83E+01	2.09E+00 3.63E-01	1.48E+00 1.61E-01	6.44E-02	2.41E-02	8.64E-03	3.03E-01	1.06E-03	3.72E-04
111111									
11111					,				
182119					M, Z=92				
ANGLE	1KEV	2KEV	4KEV			32KEV	64KEV	128KEV	256KEV
	1KEV 1.17E+02	2KEV 1.46E+02	4KEV 1.79E+02	URANIU 8KEV 2.15E+02	M, Z=92 16KEV 2.55E+02	32KEV 3.04E+02	64KEV 3.73E+02	128KEV 4.91E+02	7.37E+02
ANGLE 0.0 0.5	1KEV 1.17E+02 1.15E+02	2KEV 1.46E+02 1.42E+02	4KEV 1.79E+02 1.70E+02	URANIU 8KEV 2.15E+02 1.95E+02	M, Z=92 16KEV 2.55E+02 2.13E+02	32KEV 3.04E+02 2.18E+02	64KEV 3.73E+02 2.05E+02	128KEV 4.91E+02 1.77E+02	7.37E+02 1.46E+02
ANGLE 0.0 0.5 1.0	1KEV 1.17E+02 1.15E+02 1.10E+02	2KEV 1.46E+02 1.42E+02 1.31E+02	4KEV 1.79E+02 1.70E+02 1.46E+02	URANIU 8KEV 2.15E+02 1.95E+02 1.49E+02	M. Z=92 16KEV 2.55E+02 2.13E+02 1.36E+02	32KEV 3.04E+02 2.18E+02 1.09E+02	64KEV 3.73E+02 2.05E+02 7.88E+01	128KEV 4.91E+02 1.77E+02 5.43E+01	7.37E+02 1.46E+02 3.52E+01
ANGLE 0.0 0.5 1.0 2.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01	2KEV 1.46E+02 1.42E+02 1.31E+02 9.62E+01	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01	URANIU 8KEV 2.15E+02 1.95E+02 1.49E+02 6.94E+01	M. Z=92 16KEV 2.55E+02 2.13E+02 1.36E+02 4.85E+01	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01	7.37E+02 1.46E+02 3.52E+01 5.40E+00
ANGLE 0.0 0.5 1.0 2.0 3.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01	2KEY 1.46E+92 1.42E+02 1.31E+02 9.62E+01 6.27E+01	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01	URANIU 8KEV 2.15E+02 1.95E+02 1.49E+02 6.94E+01 3.27E+01	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+02 4.85E+01 2.06E+01	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00
ANGLE 0.0 0.5 1.0 2.0 3.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01	2KEV 1.46E+02 1.42E+02 1.31E+02 9.62E+01 3.92E+01	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 2.70E+01	URANIU 8KEV 2.15E+02 1.95E+02 1.49E+02 6.94E+01 3.27E+01	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+02 4.85E+01 2.06E+01 9.97E+00	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 1.35E+00	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 3.52E+01	2KEV 1.46E+02 1.42E+02 1.31E+02 9.62E+01 6.27E+01 3.92E+01 2.48E+01	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 2.70E+01 1.61E+01	URANIU 8KEV 2.15E+02 1.95E+02 1.49E+02 6.94E+01 3.27E+01 1.71E+01 9.65E+00	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+02 4.85E+01 2.06E+01 9.97E+00 5.34E+00	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00 2.80E+00	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00 1.41E+00	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 1.35E+00 6.73E-01	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 3.52E+01 2.45E+01	2KEV 1.46E+02 1.42E+02 1.31E+02 9.62E+01 6.27E+01 2.48E+01 1.62E+01	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 2.70E+01 1.61E+01 1.01E+01	URANIU 8KEV 2.15E+02 1.95E+02 1.49E+02 6.94E+01 3.27E+01 9.65E+00 5.80E+00	M. Z=92 16KEV 2.55E+02 2.13E+02 1.36E+01 2.06E+01 2.06E+01 5.34E+00 3.13E+00	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00 2.80E+00 1.62E+00	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00 1.41E+00 8.09E-01	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 6.73E-01 3.76E-01	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 3.55E+01 2.45E+01 1.72E+01	2KEV 1.46E+02 1.42E+02 1.31E+02 9.62E+01 6.27E+01 3.92E+01 2.48E+01 1.62E+01 1.10E+01	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 2.70E+01 1.61E+01 1.01E+01 6.60E+00	URANIU 8KEV 2.15E+02 1.95E+02 1.49E+02 6.94E+01 3.27E+01 1.71E+01 9.65E+00 3.69E+00	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+02 4.85E+01 2.06E+01 9.97E+00 5.34E+00 1.98E+00	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00 2.80E+00 1.62E+00 1.02E+00	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00 1.41E+00 8.09E-01 5.02E-01	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 1.35E+00 6.73E-01 3.76E-01 2.27E-01	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-01 9.56E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 3.52E+01 2.45E+01 1.72E+01 1.24E+01	2KEY 1.46E+02 1.42E+02 1.31E+02 9.62E+01 3.92E+01 2.48E+01 1.62E+01 1.10E+01 7.67E+00	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 2.70E+01 1.01E+01 6.60E+00 4.48E+00	URANIU 8KEV 2.15E+02 1.95E+02 1.49E+02 6.94E+01 3.27E+01 9.65E+00 5.80E+00	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+02 4.85E+01 2.06E+01 9.97E+00 3.13E+00 1.98E+00 1.33E+00	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00 2.80E+00 1.62E+00	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00 1.41E+00 8.09E-01 5.02E+01 3.30E-01	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 6.73E-01 3.76E-01	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 3.55E+01 2.45E+01 1.72E+01	2KEV 1.46E+02 1.42E+02 1.31E+02 9.62E+01 6.27E+01 3.92E+01 2.48E+01 1.62E+01 1.10E+01	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 2.70E+01 1.61E+01 1.01E+01 6.60E+00	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 1.94E+01 3.27E+01 1.71E+01 9.65E+00 5.80E+00 3.69E+00 2.49E+00	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+02 4.85E+01 2.06E+01 9.97E+00 5.34E+00 1.98E+00	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00 2.80E+00 1.62E+00 1.02E+00 6.81E-01	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00 1.41E+00 8.09E-01 5.02E-01	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 1.35E+00 6.73E-01 3.76E-01 2.27E-01 1.46E-01	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-01 9.56E-02 6.02E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 2.45E+01 1.72E+01 1.24E+01 9.10E+00	2KEV 1.46E+02 1.42E+02 1.31E+02 9.62E+01 3.92E+01 2.48E+01 1.62E+01 1.10E+01 5.48E+00	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 2.70E+01 1.61E+01 6.60E+00 4.48E+00 3.16E+00	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 6.94E+01 1.71E+01 9.65E+00 3.69E+00 2.49E+00 1.75E+00	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+02 4.85E+01 2.06E+01 9.97E+00 3.13E+00 1.98E+00 1.33E+00 9.30E-01 6.79E-01	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00 2.80E+00 1.62E+00 1.02E+00 4.77E-01 3.46E-01	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00 1.41E+00 8.09E-01 5.02E-01 2.27E-01	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 1.35E+00 6.73E-01 2.27E-01 1.46E-01 9.88E-02 6.97E-02	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-01 9.56E-02 6.02E-02 3.97E-02 2.72E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 2.45E+01 1.72E+01 1.24E+01 9.10E+00	2KEV 1.46E+02 1.42E+02 1.31E+02 9.62E+01 3.92E+01 2.48E+01 1.62E+01 1.10E+01 5.48E+00	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 2.70E+01 1.61E+01 6.60E+00 4.48E+00 3.16E+00	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 6.94E+01 1.71E+01 9.65E+00 3.69E+00 2.49E+00 1.75E+00	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+01 2.06E+01 9.97E+00 5.34E+00 3.13E+00 1.98E+00 9.30E-01	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00 1.62E+00 1.02E+00 4.77E-01 3.46E-01 9.84E-02	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00 1.41E+00 8.09E-01 5.02E-01 2.27E-01	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 1.35E+00 6.73E-01 2.27E-01 1.46E-01 9.88E-02 6.97E-02	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-01 9.56E-02 6.02E-02 3.97E-02 2.72E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 3.55E+01 1.72E+01 1.72E+01 9.10E+00 6.82E+00	2XEV 1.46E+02 1.42E+02 1.31E+02 9.62E+01 3.92E+01 2.48E+01 1.10E+01 7.67E+00 5.48E+00 4.02E+00	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 2.70E+01 1.01E+01 6.60E+00 4.48E+00 3.16E+00 2.31E+00	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 1.94E+01 3.27E+01 1.71E+01 9.65E+00 3.80E+00 2.49E+00 1.75E+00 1.28E+00 3.92E-01 1.72E-01	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+01 2.06E+01 9.97E+00 5.34E+00 3.13E+00 1.98E+00 1.98E+00 1.93E+01 6.79E-01	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00 2.80E+00 1.62E+00 6.81E-01 4.77E-01 3.46E-01 9.84E-02 4.18E-02	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00 1.41E+01 8.09E-01 3.30E-01 2.27E-01 1.62E-01 4.46E-02 1.72E-02	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 1.35E+00 6.73E-01 3.76E-01 1.46E-01 9.88E-02 6.97E-02	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-01 9.56E-02 6.02E-02 3.97E-02 2.72E-02
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 2.45E+01 1.72E+01 1.24E+01 9.10E+00 6.82E+00 2.07E+00 8.97E-01 4.78E-01	2KEV 1.46E+02 1.42E+02 1.31E+02 9.62E+01 3.92E+01 2.48E+01 1.10E+01 1.10E+01 5.48E+00 4.02E+00	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 2.70E+01 1.61E+01 1.61E+01 1.60E+01 6.60E+00 3.16E+00 2.31E+00 7.07E-01 3.14E-01 1.71E-01	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 1.94E+01 1.71E+01 9.65E+00 3.69E+00 2.49E+00 1.75E+00 1.28E+00 3.92E-01 1.72E-01 8.87E-02	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+01 2.06E+01 9.97E+00 3.13E+00 1.98E+00 1.98E+00 9.30E-01 6.79E-01 2.03E-01 8.48E-02 4.48E-02	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00 1.62E+00 1.02E+00 6.81E-01 4.77E-01 3.46E-01 9.84E-02 2.12E-02	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00 1.41E+00 8.09E-01 5.02E-01 2.27E-01 1.62E+01 4.46E-02 7.88E-03	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 1.35E+00 6.73E-01 2.27E-01 2.27E-01 9.88E-02 6.97E-02	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-01 9.56E-02 3.97E-02 2.72E-02 6.29E-03 2.22E-03 9.90E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 2.45E+01 1.72E+01 1.24E+01 9.10E+00 6.82E+00 2.07E+00 4.78E-01 2.97E-01	2XEY 1.46E+02 1.42E+02 1.31E+02 9.62E+01 3.92E+01 1.62E+01 1.67E+00 5.48E+00 4.02E+00 1.23E+00 5.58E-01 1.85E-01	4KEY 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 2.70E+01 1.01E+01 6.60E+00 4.48E+00 3.16E+00 7.07E-01 3.14E-01 1.71E-01 1.03E-01	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 1.95E+01 3.27E+01 1.71E+01 9.65E+00 3.69E+00 1.75E+00 1.28E+00 3.92E-01 1.77E-01 8.87E-02 5.23E-02	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+01 2.06E+01 9.97E+00 3.13E+00 1.98E+00 1.33E+00 9.30E-01 6.79E-01 2.03E-01 8.48E-02 2.70E-02	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00 2.80E+00 1.62E+00 1.62E+00 4.77E-01 4.77E-01 9.84E-02 4.18E-02 2.12E-02 1.18E-02	64KEV 3.73E+02 2.05E+02 7.88E+01 1.88E+01 6.32E+00 2.76E+00 1.41E+00 1.41E+01 3.30E-01 2.27E-01 1.62E+01 4.46E-02 1.72E-03 4.17E-03	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 1.35E+00 6.73E-01 2.27E-01 1.46E-01 9.88E-02 6.97E-02 1.72E-02 1.72E-03 1.47E-03	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-01 9.56E-02 6.02E-02 3.97E-02 2.72E-02 6.29E-03 2.22E-03 9.90E-04 5.20E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 20.0 25.0 35.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 3.52E+01 1.72E+01 1.72E+01 9.10E+00 6.82E+00 2.07E+00 8.97E-01 4.78E-01 4.78E-01 4.79E-01 2.00E-01	2KEY 1.46E+02 1.42E+02 1.31E+02 9.62E+01 3.92E+01 2.48E+01 1.62E+01 1.10E+01 7.67E+00 4.02E+00 1.23E+00 1.23E+00 1.358E-01 1.85E-01 1.85E-01	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 2.70E+01 1.01E+01 6.60E+00 4.48E+00 3.16E+00 7.07E-01 3.14E-01 1.03E-01 6.73E-02	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 1.95E+01 3.27E+01 1.71E+01 9.65E+00 3.69E+00 1.75E+00 1.28E+00 3.92E-01 1.72E-01 8.87E-02 3.41E-02	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+01 2.06E+01 9.97E+00 5.34E+00 1.38E+00 1.38E+00 1.38E+00 1.38E+01 8.48E+02 2.76E-02 1.76E-02	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00 1.62E+00 1.62E+00 4.77E-01 3.46E-01 9.84E-02 4.18E-02 2.12E-02 7.12E-03	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00 1.41E+00 5.02E-01 3.30E-01 2.27E-01 1.62E-01 4.46E-02 1.72E-02 7.88E-03 4.17E-03 2.46E-03	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 1.35E+00 6.73E-01 2.27E-01 1.46E-01 9.88E-02 6.97E-02 1.72E-02 1.72E-03 2.79E-03 1.47E-03 8.62E-04	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-02 6.02E-02 3.97E-02 2.72E-02 6.29E-03 2.22E-03 9.90E-04 5.20E-04 3.08E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 30.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 3.52E+01 1.72E+01 1.72E+01 9.10E+00 6.82E+00 2.07E+00 8.97E-01 4.78E-01 2.20E-01 1.77E-01	2XEV 1.46E+02 1.42E+02 1.42E+01 9.62E+01 3.92E+01 1.62E+01 1.10E+01 7.67E+00 5.48E+00 4.02E+00 1.23E+00 1.23E+00 1.23E+01 3.03E-01 1.85E-01 8.14E-02	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 1.01E+01 1.01E+01 1.01E+01 1.01E+00 2.31E+00 7.07E-01 3.14E-01 1.71E-01 1.71E-01 1.73E-02 4.71E-02	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 1.95E+01 1.71E+01 9.65E+00 3.69E+00 2.49E+00 1.75E+00 1.75E+00 1.72E-01 8.87E-02 5.24E-02 2.37E-02	M, Z=92 16KEV 2.55E+02 2.13E+02 1.365E+01 2.06E+01 9.97E+00 3.13E+00 3.13E+00 1.98E+00 1.93E+01 6.79E-01 2.03E-01 8.48E-02 4.48E-02 2.76E-02 1.76E-02 1.21E-02	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 5.36E+00 2.80E+00 1.62E+00 6.81E-01 4.77E-01 3.46E-01 9.84E-02 2.12E-02 1.18E-02 1.18E-03 4.57E-03	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00 1.41E+01 3.30E-01 2.27E-01 1.62E-01 4.46E-02 1.72E-02 7.88E-03 4.17E-03 1.57E-03	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 3.22E+00 1.35E+00 6.73E-01 3.76E-01 1.46E-01 9.88E-02 6.97E-02 1.72E-02 1.72E-03 1.47E-03 2.79E-03 1.47E-03 2.79E-04 5.51E-04	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-01 9.56E-02 6.02E-02 3.97E-02 2.72E-02 6.29E-03 2.22E-03 9.90E-04 5.20E-04 2.00E-04
ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 7.0 9.0 15.0 20.0 25.0 30.0 45.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 3.52E+01 1.72E+01 1.72E+01 1.24E+01 9.10E+00 6.82E+00 2.07E+00 4.78E-01 2.97E-01 1.77E-01 1.77E-01 1.35E-01	2XEV 1.46E+02 1.42E+02 1.42E+01 3.1E+01 6.27E+01 3.92E+01 1.62E+01 1.10E+01 7.48E+00 4.02E+00 1.23E+00 1.23E+01 1.85E-01 1.85E-01 1.85E-01	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 1.61E+01 1.61E+01 1.61E+01 1.60E+00 4.48E+00 3.16E+00 2.31E+00 7.07E-01 1.71E-01 1.03E-01 6.73E-02 4.71E-02 3.44E-02	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 1.94E+01 3.27E+01 1.71E+01 9.65E+00 3.69E+00 2.49E+00 1.75E+00 1.75E+00 1.72E-01 8.87E-02 5.23E-02 3.74E-02 1.74E-02	M, Z=92 16KEV 2.55E+02 2.13E+02 1.36E+01 2.06E+01 9.97E+00 5.34E+00 1.93E+00 1.93E+00 9.30E-01 6.79E-01 2.03E-01 8.48E-02 4.48E-02 1.76E-02 1.76E-02 1.71E-02 8.68E-03	32KEV 3.04E+02 2.18E+02 1.09E+02 3.13E+01 1.18E+01 5.36E+00 2.80E+00 1.02E+00 1.02E+01 4.77E-01 3.46E-01 9.84E-02 2.12E-02 1.18E-02 7.12E-03 3.10E-03	64KEV 3.73E+02 2.05E+02 7.88E+01 1.86E+01 6.32E+00 2.76E+00 1.41E+00 8.09E-01 3.30E-01 2.27E-01 1.62E-01 4.46E-02 1.72E-02 7.88E-03 4.17E-03 1.57E-03 1.57E-03 1.06E-03	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+00 1.35E+00 6.73E-01 2.27E-01 9.88E-02 6.97E-02 1.72E-02 1.72E-03 1.47E-03 8.62E-04 3.79E-04	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-01 9.56E-02 3.97E-02 2.72E-02 6.29E-03 2.22E-03 9.90E-04 5.20E-04 3.08E-04 1.39E-04
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ANGLE 0.0 0.5 1.0 2.0 3.0 4.0 5.0 6.0 78.0 9.0 15.0 25.0 30.0 40.0 45.0 60.0 40.0 110.0 110.0 110.0 110.0	1KEV 1.17E+02 1.15E+02 1.15E+02 9.22E+01 7.04E+01 5.05E+01 3.552E+01 1.72E+01 1.72E+01 1.72E+01 1.72E+01 2.4E+01 9.10E+00 6.82E+00 2.07E+00 8.97E-01 4.78E-01 2.97E-01 1.35E-01 9.05E-02 3.93E-02 7.12E-02 5.11E-02 6.50E-03 1.55E-02 7.39E-02 7.39E-02 9.45E-02 4.24E-02 4.22E-03	2XEV 1.46E+02 1.42E+02 1.42E+01 3.62E+01 3.92E+01 2.48E+01 1.67E+00 5.48E+00 4.02E+00 4.02E+01 3.03E-01 1.85E-01 3.03E-01 1.85E-01 8.14E-02 5.74E-02 4.74E-02 4.74E-02 2.74E-02 2.74E-02 2.71E-02 2.71E-02 2.71E-02 2.72E-02 2.72E-02	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 4.80E+01 1.01E+01 1.01E+01 1.01E+01 1.01E+01 1.01E+01 1.01E+01 1.01E+01 1.01E+01 1.01E-01 1.71E-01 1.71E-01 1.71E-02 1.01E-02 1.07E-02 1.07E-02 1.07E-02 1.07E-02 1.07E-02 1.07E-03 3.16E-03 3.16E-03 2.12E-03 2.12E-03 2.12E-03	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 1.95E+01 1.71E+01 9.65E+00 3.69E+00 2.49E+00 1.75E+00 1.75E+00 1.75E+00 1.75E+02 2.49E-02 2.47E-02 1.74E-02 1.74E-02 1.74E-02 1.74E-03 3.54E-03 2.15E-03 2.15E-03 2.15E-03 3.184E-03 3.15E-03	M, Z=92 16KEV 2.55E+02 2.13E+02 1.365E+01 2.06E+01 9.97E+00 3.13E+00 1.33E+00 1.33E+00 1.33E+00 1.33E+00 1.33E+00 1.33E+00 1.33E+00 1.34E+00 1.35E-01 8.48E-02 2.76E-02 8.68E-03 3.76E-03 1.55E-03 1.55E-03 1.55E-03 1.51E-03 1.51E-03 1.51E-03 1.71E-03	32KEV 3.04E+02 2.18E+02 1.3E+01 5.36E+00 1.62E+00 1.62E+00 1.62E+00 1.62E+01 4.77E-01 3.46E-01 4.77E-01 3.46E-02 2.18E-02 1.18E-02 1.18E-03 3.19E-03 3.19E-03 3.19E-04 4.65E-04	64KEV 3.73E+02 2.05E+02 7.88EE+01 1.88EE+00 2.76E+00 1.41E+01 3.30E-01 2.27E-01 1.62E-01 4.46E-02 7.88E-03 4.17E-03 1.57E-03 1.57E-04 4.40E-04 1.75E-04 1.75E-04 1.75E-04 1.75E-04 1.00E-04 1.00E-04 1.00E-04 1.00E-04	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 1.02E+01 1.35E+00 6.73E-01 2.27E-01 1.46E-01 9.88E-02 6.97E-02 1.72E-03 1.47E-03 2.77E-04 1.6E-04 1.6E-04 1.6E-04 1.12E-05 6.13E-05 4.84E-05 6.13E-05 2.92E-05 2.97E-05 2.37E-05	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 1.62E-01 9.56E-02 6.02E-02 3.97E-02 2.72E-02 6.29E-03 2.22E-03 9.90E-04 5.20E-04 2.00E-04 1.39E-04 1.02E-04 1.39E-04 1.02E-05 1.54E-05 1.54E-05 1.55E-06 5.30E-06
ANGLE 0.0 0.5 1.0 0.5 1.0 2.0 2.0 4.0 5.0 2.0 15.0 20.0 25.0 40.0 40.0 10.0 1120.0 1120.0 1120.0 1160.0	1KEV 1.17E+02 1.15E+02 1.15E+02 1.0E+02 9.22E+01 7.04E+01 5.05E+01 3.552E+01 1.72E+01 1.72E+01 1.72E+01 1.72E+01 1.72E+01 1.72E-01 1.75E-01 2.07E-01 1.35E-01 9.05E-02 3.93E-02 3.93E-02 7.12E-02 6.50E-03 1.55E-02 7.39E-02 4.24E-02 4.24E-02 7.68E-02	2KEY 1.46E+02 1.42E+01 3.12E+01 3.92E+01 3.92E+01 1.62E+01 1.62E+01 1.62E+00 1.62E+00 1.62E+00 1.62E+00 1.62E+00 1.62E+00 1.63E-01 1.85E-01 1.85E-01 1.85E-02 2.44E-02 3.74E-02 3.74E-02 1.20E-02	4KEY 1.79E+02 1.70E+02 1.46E+02 1.46E+02 1.61E+01 1.61E+01 1.61E+01 1.01E+02 1.62E+00 1.62E+00 1.62E+00 1.71E-01 1.71E-01 1.71E-01 1.71E-02 1.71E-02 1.50E-02 1.50E-02 1.01E-02 1.01E-03 1.01E-03 1.01E-03 1.01E-03 1.01E-03 1.01E-03 1.01E-03 1.01E-03 1.01E-03	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 1.95E+01 3.27E+01 1.71E+01 9.650E+00 3.69E+00 1.75E+00 1.75E+00 1.28E+00 1.75E+00 1.28E+00 2.47E-02 2.47E-02 2.47E-02 2.47E-02 2.47E-02 1.35E-03 3.54E-03 3.54E-03 3.64E-03 3.64E-03 3.64E-03 3.64E-03	M, Z=9KE+02 2.55E+02 2.55E+02 2.55E+02 2.65E+01 2.66E+01 2.66E+01 2.66E+00 3.13E+00 1.98E+00 1.98E-03 1.76E-03 1.76E-03 1.76E-03 1.76E-03 1.76E-03 1.76E-03 1.76E-03 1.76E-03 1.76E-03	32KE+02 3.04E+02 2.18E+02 1.03E+01 5.36E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E+00 1.02E-01 1.02E-01 1.02E-01 1.02E-01 1.02E-00	64KEV 3.73E+02 7.88E+02 7.88E+01 6.32E+00 2.76E+00 1.40E-01 3.30E-01 2.27E-01 4.46E-02 1.66E-03 2.46E-03 2.46E-03 1.56E-04 1.06E-04 1.22E-04	128KEV 4.91E+02 1.77E+02 5.42E+01 3.22E+00 1.35E+00 6.73E-01 2.27E-01 1.46E-01 9.88E-02 1.72E-03 8.62E-04 5.51E-04 5.51E-04 5.76E-04 1.66E-04 1.66E-04 1.66E-04 1.66E-04 1.66E-05 4.86E-05 2.76E-05	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-02 3.97E-02 6.02E-02 3.97E-02 6.29E-03 2.22E-02 6.29E-04 3.08E-04 2.00E-04 1.39E-04 1.02E-04 1.02E-04 6.13E-05 4.03E-05 2.81E-05 2.81E-05 2.87E-06 6.23E-06 6.23E-06 6.23E-06 6.23E-06
ANGLE 0.0 0.5 1.0 2.0 2.0 5.0 6.0 7.0 8.0 9.0 15.0 20.0 230.0 450.0 450.0 100.0 110.0 110.0 110.0 110.0 110.0	1KEV 1.17E+02 1.15E+02 1.15E+02 1.0E+02 9.22E+01 7.04E+01 5.05E+01 2.45E+01 1.24E+01 9.10E+00 6.82E+00 2.07E+00 4.78E-01 2.97E-01 1.77E-01 1.35E-02 2.80E-02 3.93E-02 7.12E-02 6.50E-02 3.93E-02 7.12E-02 6.50E-02 4.24E-02	2KEY 1.46E+02 1.42E+02 1.312E+01 3.92E+01 2.48E+01 1.62E+01 1.62E+01 1.62E+00 1.62E+00 1.62E+00 1.62E+00 1.62E+00 1.62E+00 1.85E-01 1.85E-01 1.85E-02 4.74E-02 4.74E-02 2.74E-02 1.46E-02 2.71E-02 2.71E-02 2.71E-02 2.77E-01	4KEV 1.79E+02 1.46E+02 1.46E+02 1.81E+01 1.01E+01	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 1.95E+01 3.27E+01 9.65E+00 3.69E+00 1.75E+00 1.75E+00 1.28E+00 1.28E-02 2.49E-02 3.92E-01 8.87E-02 2.37E-02 1.37E-02 2.37E-02 1.37E-02 2.37E-02 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.94E-03 3.94E-03 3.94E-03 3.94E-03	M, Z=9KEY 2 16KEY 2 2.55E+02 1.36E+01 2.55E+01 2.06E+01 9.97E+00 5.34E+00 1.33E+00 1.33E+00 1.33E+00 1.33E+00 1.36E+00 1.36E+00 1.36E-01 2.04E-02 1.76E-02 1.76E-02 1.76E-03 1.76E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03	32KEV 3.04E+02 2.18E+02 1.03E+01 1.18E+01 5.36E+00 1.62E+00 1.62E+00 1.62E+00 1.62E+01 4.776E - 01 3.46E-02 4.18E-02 2.12E-03 4.12F-03 3.10E-03 3.10E-03 4.12F-04	64KEV 3.73E+02 7.88E+02 7.88E+01 1.86E+01 1.86E+01 1.82E+00 2.76E+00 1.41E+01 3.30E-01 2.27E-01 1.62E-01 4.46E-02 1.72E-01 4.46E-03 1.57E-03 1.56E-04 1.57E-04 1.75E-04 1.75E-04 1.21EE-04 1.21EE-04 1.03E-04 1.03E-04 1.03E-04 1.03E-04 1.03E-04 1.03E-04 1.03E-04 1.03E-04 1.03E-04 1.03E-05 9.69E-05	128KEV 4.91E+02 1.77E+02 5.43E+01 3.22E+00 1.32E+00 1.32E+01 2.27E-01 1.46E-01 9.88E-02 1.72E-03 2.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-05 3.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.77E-05	7.37E+02 1.46E+02 3.52E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-02 6.02E-02 3.97E-02 2.72E-02 6.29E-03 2.22E-03 9.90E-04 3.08E-04 1.32E-04 1.32E-04 1.32E-04 1.32E-05 4.03E-05 2.05E-05 1.54E-05 1.54E-05 1.54E-05 1.55E-06 6.23E-06
ANGLE 0.0 0.5 1.0 2.0 5.0 5.0 6.0 7.0 8.0 9.0 15.0 25.0 45.0 56.0 70.0 110.0 110.0 110.0 110.0 110.0 110.0 110.0	1KEV 1.17E+02 1.15E+02 1.10E+02 9.22E+01 7.04E+01 5.05E+01 3.52E+01 1.72E+01 1.72E+01 1.72E+01 2.4E+01 9.10E+00 6.82E+00 2.07E+00 8.97E-01 2.97E-01 2.97E-01 1.77E-01 1.35E-02 3.93E-02 7.12E-02 5.11E-02 6.50E-03 1.55E-02 2.7.39E-02 4.24E-02 4.24E-02 4.24E-02 4.24E-02 4.24E-02 4.24E-02 4.24E-02 4.24E-02 4.24E-02 4.24E-02 4.24E-01 3.00E-91	2XEV 1.46E+02 1.42E+02 1.42E+01 3.62E+01 3.92E+01 2.48EE+01 1.10E+01 7.67E+00 5.48E+00 4.02E+00 1.58E-01 3.93E-01 1.85E-01 1.85E-01 1.85E-02 4.74E-02 4.75E-02 2.74E-02 2.71E-02 2.71E-02 2.72E-02 1.77E-01 2.72E-01 2.72E-01	4KEV 1.79E+02 1.70E+02 1.46E+02 8.81E+01 2.70E+01 1.01E+01 6.60E+00 4.48E+00 3.16E+00 2.31E+00 7.07E-01 1.03E-01 1.03E-02 4.71E-02 3.46E-02 1.07E-02 1.07E-02 1.07E-02 1.07E-02 1.07E-02 2.56E-02 1.07E-02 1.07E-02 2.56E-02 1.07E-02 2.56E-02 2.56E-02 2.56E-02 3.67E-03 2.73E-03 3.67E-03 2.73E-03 3.67E-03 2.73E-02 4.74E-01	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 1.95E+01 1.71E+01 9.65E+00 3.69E+00 1.75E+00 1.75E+00 1.75E+00 1.75E+00 2.49E+00 1.75E+00 2.49E+00 1.75E+00 3.97E-02 3.97E-02 3.97E-02 3.97E-02 3.97E-03	M, Z=KEY 2 16KEY 2 2.55E+02 1.65E+01 2.55E+01 2.05E+01 9.97E+00 5.34SE+00 1.33E+00 1.33E+00 1.33E+00 1.33E+00 1.32E-02 1.32E-03	32KE+02 3.04E+02 2.18E+02 1.03E+01 5.36E+00 1.62E+00 1.62E+00 1.62E+00 1.62E+01 4.77E-01 3.46E-01 4.77E-01 3.46E-01 4.77E-01 3.46E-01 4.77E-01 3.46E-02 4.12E-02 1.12E-02 1.12E-03 3.13E-04 4.14E-04 4.15E-04	64KEV 3.73E+02 7.88E+01 1.88E+01 1.88E+01 1.82E+00 2.76E+00 1.41E+001 3.30E-01 2.76E+01 4.42E-01	128KEV 4.91E+02 1.77E+02 5.43E+01 1.02E+01 1.02E+00 1.35E+00 6.73E-01 2.76E-01 1.46E-01 9.88E-02 1.72E-01 1.47E-03 1.47E-03 1.47E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-05 2.76E-04 3.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05	7.37E+02 1.46E+02 3.52E+00 1.57E+00 6.30E-01 1.62E-02 6.02E-02 3.97E-02 2.72E-02 6.22E-03 2.22E-03 2.22E-04 1.39E-04 1.39E-04 1.32E-05 4.03E-05
ANGLE 0.0 0.5 1.0 2.0 2.0 5.0 6.0 7.0 8.0 9.0 15.0 20.0 230.0 450.0 450.0 100.0 110.0 110.0 110.0 110.0 110.0	1KEV 1.17E+02 1.15E+02 1.15E+02 1.0E+02 9.22E+01 7.04E+01 5.05E+01 2.45E+01 1.24E+01 9.10E+00 6.82E+00 2.07E+00 4.78E-01 2.97E-01 1.77E-01 1.35E-02 2.80E-02 3.93E-02 7.12E-02 6.50E-02 3.93E-02 7.12E-02 6.50E-02 4.24E-02	2KEY 1.46E+02 1.42E+02 1.312E+01 3.92E+01 2.48E+01 1.62E+01 1.62E+01 1.62E+00 1.62E+00 1.62E+00 1.62E+00 1.62E+00 1.62E+00 1.85E-01 1.85E-01 1.85E-02 4.74E-02 4.74E-02 2.74E-02 1.46E-02 2.71E-02 2.71E-02 2.71E-02 2.77E-01	4KEV 1.79E+02 1.46E+02 1.46E+02 1.81E+01 1.01E+01	URANIU 8KEV 2.15E+02 1.95E+02 1.95E+02 1.95E+01 3.27E+01 9.65E+00 3.69E+00 1.75E+00 1.75E+00 1.28E+00 1.28E-02 2.49E-02 3.92E-01 8.87E-02 2.37E-02 1.37E-02 2.37E-02 1.37E-02 2.37E-02 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.92E-03 3.94E-03 3.94E-03 3.94E-03 3.94E-03	M, Z=9KEY 2 16KEY 2 2.55E+02 1.36E+01 2.55E+01 2.06E+01 9.97E+00 5.34E+00 1.33E+00 1.33E+00 1.33E+00 1.33E+00 1.36E+00 1.36E+00 1.36E-01 2.04E-02 1.76E-02 1.76E-02 1.76E-03 1.76E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03 1.16E-03	32KEV 3.04E+02 2.18E+02 1.03E+01 1.18E+01 5.36E+00 1.62E+00 1.62E+00 1.62E+00 1.62E+01 4.776E - 01 3.46E-02 4.18E-02 2.12E-03 4.12F-03 3.10E-03 3.10E-03 4.12F-04	64KEV 3.73E+02 7.88E+02 7.88E+01 1.86E+01 1.86E+01 1.82E+00 2.76E+00 1.41E+01 3.30E-01 2.27E-01 1.62E-01 4.46E-02 1.72E-01 4.46E-03 1.57E-03 1.56E-04 1.57E-04 1.75E-04 1.75E-04 1.21EE-04 1.21EE-04 1.03E-04 1.03E-04 1.03E-04 1.03E-04 1.03E-04 1.03E-04 1.03E-04 1.03E-04 1.03E-04 1.03E-05 9.69E-05	128KEV 4.91E+02 1.77E+02 5.43E+01 3.22E+00 1.32E+00 1.32E+01 2.27E-01 1.46E-01 9.88E-02 1.72E-03 2.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-04 3.76E-05 3.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.76E-05 2.77E-05	7.37E+02 1.46E+02 3.52E+01 5.40E+00 1.57E+00 6.30E-01 3.00E-01 1.62E-02 6.02E-02 3.97E-02 2.72E-02 6.22E-03 2.22E-03 9.90E-04 3.08E-04 2.00E-04 1.32E-05 4.03E-05 2.05E-05 1.54E-05

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

	AVEU	2254	LKCA		EN, Z=1	22454	61.450	400454	256454
A 1	1KEV	2KEV -6.539E-01	4KEV	8KEV	16KEV	32KEV	64KEV -6.580E-01	128KEV	256KEV -3.739E-01
A2	3.975E-01		2.884E-01	3.151E-01					2.928E-01
A3	2.344E-03	3.208E-03						1.038E-04	1.757E-05
		-1.590E-05		9.522E-06		-4.278E-08	7.506E-07	4.492E-09	3.551E-08
CO	1.105E+00		6.487E-01	8.062E-01		-9.682E-02		-1.011E-01	4.769E-01
C1 C2	1.172E+00 7.611E-01		9.256E-01 8.045E-01	9.955E-01 7.510E-01		-1.263E-01 -1.017E-01		-1.410E-01 -1.224E-01	6.287E-01 5.042E-01
63	4.001E-01		5.676E-01	4.597E-01		-6.736E-02		-8.834E-02	3.282E-01
C4	1.718E-01		3.277E-01	2.304E-01		-3.748E-02		-5.421E-02	1.760E-01
C5	5.558E-02			8.723E-02		-1.640E-02		-2.652E-02	7.261E-02
C6	1.031E-02			1.878E-02		-4.697E-03		-8.267E-03	1.820E-02
В 01	8.057E-03 1.9E-03	4.506E-03 2.7E-03	2.592E+03 9.0E-03	1.872E-03 4.3E-03	8-431E-04 1-8E-03	3.444E-04 2.4E-03	3.049E-04 2.5E-02	8.926E-05 2.3E-03	6.648E-05 2.7E-02
02		4.2E-04	1.4E-03	8.2E-04	7.0E-06	5.0E-05	4.4E-03	9.0E-05	3.5E-03
	4251	2457	. vev	HELIUM		70454			
	1KEV	2KEV -4.242E-01	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 A2			3.630E-01	3.388E-01		2.980E-01	2.891E-01	3.407E-01	2.914E-01
		-2.397E-03				6.719E-04		-9.270E-05	7.883E-05
A4	5.556E-05		3.477E-06	9.459E-07	1.384E-11		-7.566E-14	6.887E-07	4.899E-08
CO	-9.725E-02	4.519E-01	8.681E-01	8.734E-01	3.088E-01	4.817E-01	2.759E-01	1.810E+00	3.546E-01
	-1.434E-01		9.635E-01	1.028E+00		6.172E-01	3.678E-01	2.294E+00	4.574E-01
	-1.141E-01		6.551E-01	7-411E-01		4.836E-01		1.763E+00	3.535E-01
	-6.887E-02		3.606E-01 1.606E-01	4.342E-01		3.089E-01	2.039E-01	1.090E+00	2.158E-01
	-1.082E-02			2.074E-01 7.250E-02	7.401E-02 2.690E-02	1.633E-01 6.640E-02	1.164E-01 5.306E-02	5.456E-01 2.027E-01	1.024E-01 3.280E-02
		-4.040E-04		1.166E-02		1.634E-02		4.167E-02	6.162E-03
8	1.206E-02			1.359E-03		8.551E-04		3.179E-04	1.234E-04
01	9.2E-04	1.4E-03	3.3E-03	3.0E-03	1.7E-03	4.0E-03	2.6E-03	3.1E-02	1.2E-02
D2	1.1E-04	5.6E-04	2.9E-04	3.6E-04	1.7E-04	5.5E-04	2.0E-04	4.7E-03	6.0E-04
				LITHIU	W. 7=3				
	1KEV	SKEA	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1	1.427E+00	1.875E+00	1.990E+00	1.699E+00				-3.638E-01	
A2	5.527E-02		1.452E-01	1.939E-01		2.604E-01	3.007E-01	2.984E-01	3.292E-01
A3	-2.502E-04	-6.965E-04	-8.232E-04						
A4	2.705E-05				6.296E-07	1.826E-07	7.576E-08	2.354E-08	3.617E-08
		-2.386E+00 -2.601E+00					5.774E-01 7.406E-01	4.788E-01	1.770E+00
		-1.737E+00					5.758E-01	6.022E-01 4.548E-01	2.303E+00 1.815E+00
		-9.407E-01					3.605E-01	2.727E-01	1.152E+00
		-4.176E-01					1.825E-01	1.288E-01	5.931E-01
		-1.403E-01					6.829E-02	4.247E-02	2.284E-01
		-2.708E-02					1.358E-02	6.216E-03	5.031E-02
8 01	4.125E-03 8.9E-04	2.188E-03 4.4E-03	1.189E-03 1.2E-02	6.433E-04	3.480E-04	1.781E-04	9.893E-05	5.406E-05	5.406E-05
02	3.0E-05	6.7E-04	2.6E-03	1.9E-02 6.5E-03	2.4E-02 5.8E-03	3.0E-02 2.0E-03	3.8E-02 2.8E-03	5.4E-02 4.9E-03	1.6E-01 3.7E-03
					7002 00	2402 00	2002 00	44.32 00	3672 83
	4 4534	0 V C V			IUM, Z=4				
A1	1KEV 1.201E+00	2KEV 6.098E-01	4KEV 6.522E-01	8KEV 1.441E+00	16KEV	32KEV	64KEV	128KEV	256KEV
A2	2.615E-02		1.302E-01	1.876E-01	2.370E+00 1.670E-01	1.168E+00 2.315E-01	2.853E-01	-3.771E-01 2.996E-01	3.180E-01
A3		-2.266E-04						-1.744E-04	
A4	-1.579E-05		-4.898E-08	5.223E-06		3.140E-07	2.221E-07	7.155E-08	3.908E-08
CO	-1.194E+00	-3.616E-01	-2.883E-01	-2.051E+00	-3.659E+00	-1.842E+00	-7.303E-02	5.028E-01	1.267E+00
		-5.942E-03	3.290E-01	-2.440E+00	-4.646E+00	-2.352E+80	-1.056E-01	6.361E-01	1.634E+00
	-6.367E-01 -3.079E-01				-3.593E+00				1.269E+00
	-1.252E-01				-2.251E+00 -1.153E+00			2.891E-01 1.375E-01	7.865E-01 3.910E-01
	-3.967E-02				-4.464E-01			5.112E-02	1.459E-01
	-7.539E-03				-9.896E-02			1.055E-02	3.037E-02
В	4.694E-03		6.031E-04		4.358E-04	2.598E-04	1.660E-04	8.694E-05	5.406E-05
D1	1.3E-03	1.6E-02	3.9E-02	8.9E-03	3.2E-02	2.7E-02	2.4E-02	3.6E-02	8.7E-02
D2	3.5E-04	4.8E-03	7.0E-03	1.2E-03	9.6E-03	7.2E-03	4.4E-03	6.8E-03	1.7E-03
				BORON,	Z=5				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
	-5.427E-02		-9.522E-02		-2.304E-01		1.131E+00	5.076E-01	-5.646E-01
A2 A3			2.225E-01	1.245E-01	2.762E-01	Z-418E-01	2.345E-01	2.635E-01	3.070E-01
		3.116E-05	4.042E-05	-4-012F-07	5.599F=06	1.0035-04	9.817E-08	-8-117E-05	
CO		-1.039E+00		-2.770E+00			-1.823E+00		5.322E-08 7.614E-01
C1		-9.509E-01	8.459E-01	-3.225E+00			-2.347E+00		9.766E-01
CS	6.245E-01	-5.416E-01	8.108E-01	-2.293E+00	7.821E-01	-1.265E+00	-1.836E+00	-9.236E-01	7.530E-01
C3		-2.533E-01		-1.321E+00			-1.159E+00		4.633E-01
C4 C5		-9.803E-02		-6.214E-01			-5.955E-01		2.278E-01
C6		-2.898E-02 -4.941E-03		-2.202E-01 -4.418E-02			-2.292E-01 -4.997E-02		8.128E-02
В	6.057E-03			7.461E-04	9.081E-04		1.660E-04	8.926E-05	1.518E-02 6.648E-05
01	4.4E-03	8.4E-04	1.0E-02	1.0E-02	2.2E-02	1.4E-02	3.2E-02	2.5E-02	5.6E-02
0.5	5.1E-04	1.9E-04	2.4E-03	2.2E-03	2.1E-03	3.2E-03	6.2E-03	5.3E-03	7.0E-03

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

			CARBON,					
1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
	1 -1.580E-01						-3.210E-01	
A2 1.755E-0		1.813E-01	1.927E-01	2.573E-01	2.617E-01	2.751E-01	2.829E-01	2.860E-01
A3 -5.670E-0		5.522E-04	-2.222E-04		-3.796E-04		-1.435E-04	
		-1.751E-06	8.230E-08	7.391E-06	2.077E-06	6.244E-07	1.488E-07 5.723E-01	3.304E-08 5.971E-01
		4.277E-01 8.727E-01	2.874E-01	4.173E-01	4.084E-01	4.764E-01	9.077E-01	9.267E-01
			8.116E-01	7.996E-01	8.204E-01	8.368E-01		
C2 5.164E-0 C3 3.055E-0		8.691E-01	9.514E-01	8.364E-01 6.723E-01	9.003E-01 7.587E-01	8.566E-01	8.596E-01 6.525E-01	8.603E+01 6.395E-01
		6.429E-01	7.965E-01			6-950E-01		3.810E-01
		3.722E-01	5.125E-01 2.398E-01	4.275E-01 2.002E-01	5.034E-01	4.532E-01 2.194E-01	3.989E-01 1.783E-01	1.645E-01
		1.587E-01			2.435E-01			
C6 1.273E-0		3.764E-02	6.171E-02	5.196E-02	6.335E-02	5.949E-02	4-171E-02	3.950E-02
B 5.592E-0		1.908E-03	4.467E-04	1.180E-03	5.983E-04	3.049E-04	1.453E+04	6.647E-05
01 7.0E-03		1.1E-02	2.2E-02	1.9E-02	2.6E-02	2.4E-02	2.4E-02	2.2E-02
02 3.2E-03	1.6E-03	3.6E-03	3.5E-03	2.1E-03	4.4E-03	3.8E-03	2.4E-03	5.9E-03
			NITROGE	N - 7-7				
1KEV	2KEV	4KEV	BKEV	16KEV	32KEV	64KEV	128KEV	256KEV
	1 -1.095E-01		1.155E+00	1.192E+00	1.083E+00	6.177E-01	6.945E-01	1.072E-01
A2 1.794E+0		2.207E-01	1.476E-01	1.849E-01	2.177E-01	2.517E-01	2.517E-01	2.784E-01
	3 -1.189E-03	1.094E-03	1.768E-03	6.366E-04			-1.845E-05	
			4.937E-07		1.638E-06	7.072E-07	8.120E-08	4.488E-08
A4 8.363E-0		6-217E-05		3.260E-06				
CO 5.870E-0			-1.409E+00					
C1 7.239E-0			-1.480E+00					
C2 5.231E-0			-9.541E-01					
C3 2.991E-0			-4-998E-01					
C4 1.378E-0		2.486E-01	-2.148E-01	-3.255E-U1	-4.190E-01	-2.401E-01	-3.423E-01	-6.744E-U2
C5 4.780E-0			-6.986E-02					
C6 9.790E-0			-1.307E-02					
B 5.535E-0		5.228E-03		1.290E-03		3.761E-04	1.529E-04	8.430E-05
01 2.7E-03		5.1E-03	2.2E-03	5.7E-03	9.1E-03	1.3E-02	2.1E-02	1.4E-02
D2 8.4E-04	1.1E-03	4.1E-84	3.8E-04	2.7E-04	2.0E-03	2.5E-03	3.6E-03	2.7E-03
			OXYGEN.					
1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -3.151E-0	1 -4.143E-01	-3.378E-01	7.750E-01	1.151E+00	1.043E+00	8.495E-01	6.484E-01	6.268E-01
A2 1.565E-0	1 2.123E-01	2.280E-01	1.668E-01	1.769E-01	2.119E-01	2.388E-01	2.526E-01	2.555E-01
A3 5.179E-0	3 8.074E-04	2.091E-03	2.130E-03	1.118E-03	3.669E-04	5.394E-05	5.051E-06	1.052E-05
A4 -7.102E-0	5 -1.079E-05	5.928E-05	6.685E-12	7.192E-87	1.642E-06	7.253E-07	1.528E-07	1.002E-08
C0 6.907E-0	1 8.183E-01	7.333E-01	-8.508E-01	-1.514E+00	-1.489E+00	-1.311E+00	-1.053E+00	-1.081E+00
C1 8.607E-0			-8.104E-01					
C2 6.281E-0			-4.708E-01					
C3 3.597E-0			-2.198E-01					
C4 1.652E-0			-8.269E-02					
C5 5.686E-0			-2.291E-02					
C6 1.108E-0			-3.431E-03					
B 1.527E-0		6.234E-03		1.398E-03	8.426E-04	4.476E-04	2.062E-04	7.411E-05
D1 1.7E-03		4.7E-03	2.0E-03	3.7E-03	7.9E-03	1.0E-02	1.5E-02	2.9E-02
02 3.0E-04		3.7E-04	3.8E-04	1.7E-04	1.2E-03	2.5E-03	2.6E-03	2.6E-03
32 3332 3		••••						
			FLUORIN	IE. Z≃9				
1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
	1 -1.705E-01			8.470E-01	1.032E+00	9.064E-01	7.370E-01	7.396E-01
A2 6.297E-0		2.525E-01	2.293E-01	1.892E-01	2.059E-01	2.323E-01	2.47DE-01	2.510E-01
	2 -1.907E-03		-5.853E-04	1.314E-03	6.477E-04	2.021E-04	6.899E-05	2.812E-05
A4 -1.458E-		1.059E-04		1.138E-13	1.000E-06	7.184E-07	1.568E-07	3.663E-09
CO 8.256E-0		7.589E-01					-1.174E+00	
C1 1.154E+0		9.765E-01					-1.445E+00	
C2 9.200E-			5.192E-01	-6.998E-01	-1.174E+00	-1.249E+00	-1.080E+00	-1.243E+00
C3 5.763E-	11 2.837F=01	4.353E-01		-3.624E-01	-6.677E-01	-7.544E-01	-6.459E-01	-7.811E-01
C4 2.949E-							-3.090E-01	
C5 1.166E-							-1.066E-01	
C6 2.720E-0							-1.865E-02	
B 2.583E-0		7.849E-03					2.429E-04	
D1 5.6E-03		3.5E-03	7.6E-03	2.9E-03	6.0E-03	8.8E-03	1.4E-02	2.7E-02
D2 1.2E-03		4.3E-04	1.1E-03	5.2E-04	6.8E-04	2.1E-03	2.7E-03	1.6E-03
DC 24CC 01		1002 01		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	****			
			NEON.	Z=10				
1KE V	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
	1 -4.108E-01						-3.645E-01	
A2 5.320E-					2.071E-01		2.874E-01	2.505E-01
	02 -2.308E-03		-7.757E-04		7.765E-04		-1.041E-04	
A4 3.227E-		-5.867E-06					7.418E-07	
C0 1.056E+				-6.542E-01				-1.215E+00
C1 1.273E+1				-6.205E-01				-1.510E+00
C2 8.780E-				-3.543E-01				-1.141E+00
C3 4.597E-				-1.599E-01				-6.902E-01
C4 1.810E-				-5.683E-02				-3.337E-01
C5 4.447E-1				-1.445E-02				-1.162E-01
C6 3.043E-				-2.009E-03				-2.078E-02
B 3.299E-						5.974E-04		
01 1.1E-0		4.0E-03	5.1E-03	3.1E-03	4.3E-03	8.3E-03	2.2E-02	2.2E-02
D2 4.7E-0		3.8E-04	8.8E-04	5.8E-04	1.35-04	1.7E-03	1.9E-03	1.5E-03

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

IADLE II.	i arameters i	OI I WCIVC-I	arameter 1	ns to Dinc	icitiai Cic	ss sections	
			~				
A.75.7 0.75.1		SODIUM		30.45		4.00.000.0	0544511
1KEV 2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 7.200E-01 1.084E			-1.607E-01				1.465E-01
A2 3.232E-02 7.172E				2.790E-01	2.780E-01	2.783E-01	2.744E-01
A3 -7.117E-04 -9.322E							
A4 8.713E-06 5.420E			5.402E-07	3.761E-07	4.152E-07	9.050E-08	2.428E-08
CO -7.290E-01 -1.244E		-1.036E+00	5.399E+81	1.113E+00	2.379E-01		-2.848E-01
C1 -8.736E-01 -1.387E		-1.197E+00	9.513E-01	1.611E+00	4.035E-01		-2.940E-01
C2 -6.540E-01 -9.858E		-8.800E-01	9.138E-01	1.377E+00	3.797E-01		-1.796E-01
C3 -4.034E-01 -5.894E		-5.387E-01	6.764E-01	9.340E-01	2.760E-01		-8.015E-02
C4 -2.055E-01 -2.975E		-2.746E-01	3.985E-01	5.101E-01	1.592E-01		-2.126E-02
C5 -8.055E-02 -1.167E		-1.069E-01	1.742E-01	2.073E-01	6.783E-02	1.205E-01	1.933E-03
C6 -1.853E-02 -2.687E		-2.384E-02		4.727E-02	1.643E-02	2.571E-02	3.975E-03
B 4.514E-03 2.617E				3.422E-04	3.342E-04	1.579E-04	8.163E-05
01 4.5E-03 9.9E-		1.8E-02	2.4E-02	7.1E-82	1.4E-01	1.3E-01	1.4E-01
02 7.1E-04 2.0E-	13 2.9E-03	6.2E-03	2.25-83	4.8E-03	3.0E-03	1.8E-03	1.5E-03
			IUM, Z=12				
1KEV 2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KE V
A1 4.692E-01 7.567E	·01 -5.463E-01	7.776E-01	-5.031E-01	-1.996E-01	-9.888E-01	-3.071E-01	-9.283E-82
A2 4.351E-02 7.974E	·02 2•158E-01	1.862E-01	2.690E-01	2.625E-01	3.134E-01	2.878E-01	2.864E-01
A3 -1.084E-03 -1.193E	·03 -2.555E-03	-9.829E-04	-1.003E-03	-4.668E-04	-5.164E-04	-1.984E-04	-1.054E-04
A4 2.696E-05 1.255E	·05 1.346E-05	2.529E-06	1.680E-06	3.904E-07	5.796E-07	1.083E-07	3.915E-08
CO -3.937E-01 -7.455E	·01 1.170E+00	-9.901E-01	9.485E-01	4.727E-01	1.632E+00	5.160E-01	8.496E-02
C1 -5.038E-01 -7.765E	·01 1.693E+00	-1.138E+00	1.339E+00	7.657E-01	2.221E+00	7.783E-01	1.712E-01
C2 -3.808E-01 -5.299E	-01 1.441E+00	-8.300E-01	1.104E+00	6.953E-01	1.815E+00	6.869E-01	1.674E-01
C3 -2.319E-01 -3.111E-	01 9.835E-01	-5.018E-01	7.201E-01	4.889E-01	1.189E+00	4.800E-01	1,204E-01
C4 -1.150E-01 -1.557E		-2.516E-01	3.785E+01	2.726E-01	6.299E-01	2.699E-01	6.519E-02
C5 -4.341E-02 -6.075E		-9.595E-02	1.497E-01	1.120E-01	2.481E-01	1.1278-01	2.378E-02
C6 -9.597E-03 -1.393E		-2.080E-02	3.310E-82	2.565E-02	5.432E-02	2.658E-02	3.788E-03
8 6.389E-03 3.501E			5.810E-04	3.346E-04	3.135E-04	1.453E-04	8.163E-05
D1 1.7E-03 4.4E-		1.2E-02	3.1E-02	2.9E-02	1.2E-01	1.2E-01	1.3E-01
02 2.3E-04 7.1E-		4.7E-03	3.4E-03	3.56-03	8.7E-03	5.9E-03	1.0E-03
52 205t - 54 701C	4012.03	441 L- 03	3446 03	3.72.03	0.1L-03	7. 7L-00	1.5003
		A1 HMT N	UM. Z=13				
1KEV 2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -4.378E-01 -3.167E-							
A2 9.230E-02 1.454E			2.440E-01	2.547E+01			
					2.598E-01	2.632E-01	2.677E-01
A3 -1.988E-03 -3.033E-							
A4 3.912E-05 3.749E				3.975E-07	9.745E-08	2.235E-08	4.724E-09
CO 9.154E-01 7.984E-			6.319E-01	6.121E-01	5.710E-01	5.794E-01	5.696E-01
C1 1.089E+00 1.079E			1.008E+00	9.975E-01	9.718E-01	9.775E-01	9.695E-01
C2 8.455E-01 8.439E-			9.025E-01	9.1058-01	9.213E-01	9.188E-01	9.192E-01
C3 5.493E-01 5.267E			6.283E-01	6-424E-01	6.721E-01	6.653E-01	6.698E-01
C4 3.033E-01 2.718E			3.493E-01	3.588E-01	3-856E-01	3.802E-01	3.813E-01
C5 1.342E-01 1.092E			1.442E-01	1.474E-01	1.612E-01	1.593E-01	1.552E-01
C6 3.585E-02 2.589E			3.347E-02	3.359E-02	3.680E-02	3.715E-02	3.315E-02
B 6.753E-03 4.403E				3.271E-04	1.599E-04	7.580E-05	3.417E-05
D1 1.5E-02 1.5E-		2.5E-02	2.3E-02	2.3E-02	2.5E-02	3.3E-02	3.4E-02
02 4.3E-03 4.4E-	9.0E-03	3.2E-03	3.8E-03	3.3E-03	4.0E-03	5.2E-03	5.8E-03
			N, Z=14				
1KEV ZKEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KE¥	256KEV
A1 -4.820E-01 -3.436E-	·01 1.032E+00	1.099E+00	-2.834E-01	7.271E-01	4.975E-01	-3.009E-01	-3.203E-01
A2 1.315E-01 1.377E-		1.591E-01	2.496E-01	2.229E-01	2.438E-01	2.875E-01	2.946E-01
A3 -5.324E-03 -2.923E		-9.280E-04	-1.066E-03	-3.526E-04	-2.120E-04	-2.344E-04	-1.483E-04
A4 1.555E-04 4.879E				3.532E-07	1.095E-07		5.275E-08
CO 7-947E-01 8-286E-	01 -1.163E+00	-1.429E+00	6.795E-01	-1.002E+00	-6.834E-01	5.116E-01	4.764E-01
C1 7.724E-01 1.090E	·00 -1.231E+00	-1.651E+00	1.068E+00				
	01 -8.242E-01			-8.474E-01	-5.102E-01	6.779E-01	6.173E-01
C3 2.907E-01 5.252E-	01 -4.605E-01	-7.067E-01	6.767E-01	-5.094E-01	-2.811E-01	4.676E-01	4.236E-01
C4 1.401E-01 2.746E-	01 -2.163E-01	-3.463E-01	3.866E-01	-2.545E-01	-1-267E-01	2.570E-01	2.332E-01
C5 5.502E-02 1.131E-	01 -7.860E-02	-1.295E-01	1.657E-01	-9.712E-02	-4.289E-02	1.034E-01	9.503E-02
C6 1.353E-02 2.768E-	02 -1.661E-02	-2.797E-02	3.978E-02	-2.127E-02	-8.133E-03	2.257E-02	2.181E-02
	03 2.487E-03	1.379E-03	8.077E-04	3.422E-04	1.768E-04	1.453E-04	8.163E-05
01 4-5E-03 8-8E-1	3 5.7E-03	1.1E-02	2.1E-02	2.0E-02	1.3E-02	8.2E-02	1.1E-01
D2 6.3E-04 1.8E-	13 4.7E-04	2.9E-03	2.6E-03	3.2E-03	8.2E-04	9.7E-03	2.7E-03
		PHOSPHO	DRUS, Z=15				
1KEV 2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -7.235E-01 -4.142E-	01 -3.022E-01	1.016E+00	6.702E-01				
	01 1.814E-01						
A3 -9.315E-03 -3.818E-							
	05 3.197E-05						
CO 1.008E+00 8.512E-		-1.274E+00					
C1 9.251E-01 1.027E		-1.433E+00					
C2 5.949E-01 7.373E-		-1.008E+00					
C3 3.141E-01 4.318E-		-5.825E-01					
C4 1.424E-01 2.133E-	01 3.675E-01	-2.785E-01	-2.222E-01	-5.274E-01	-4.792E-01	-1-971E-01	-1.385E-01
C5 5.266E-02 8.363E-	02 1.513E-01	-1.017E-01	-8.485E-02	-2.038E-01	-1.825E-01	-7.369E-02	-5.126E-02
C6 1.226E-02 1.975E-		-2.145E-02					
9 1.255E-02 6.405E-		1.690E-03					
D1 3.3E-03 5.5E-0	3 1.1E-02	7.9E-03	1.1E-02	3.3E-02	3.9E-02	1.2E-02	2.0E-02
		1.2E-03	3.5E-03	6.76-03	2.6E-03	1.8E-03	5.2E-03
02 7.3E-04 5.1E-0	4 3.3E-03	1.55-03	3475.03	0016.00			7 CE-03

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

			SULFUR					
1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -5.848E-01		6.695E-01	9.339E-01			-2.641E-01	5.962E-01	
A2 1.879E-01	1.724E-01	1.084E-01		2.110E-01	1.973E-01	2.806E-01	2.495E-01	2.695E-01
A3 -1.242E-02								
A4 5.419E-04			1.058E-05			5.710E-07	4.622E-08	2.301E-08
CO 7.521E-01			-1.122E+00				-8.929E-01	
C1 5.824E-01			-1.220E+08				-1.033E+00	
C2 3.515E-01			-8.306E-01				-7.333E-01	
C3 1.661E-01			-4-651E-01				-4-191E-01	
C4 6.884E-02			-2.157E-01				-1.925E-01	
C5 2.376E-02			-7.648E-02				-6.394E-02	
C6 5.230E-03			-1.561E-02				-1.081E-02	
8 1.538E-02		3.772E-03		1.093E-03	4.446E-04	3.202E-04	1.147E-04	6.648E-05
01 1.9E-03	3.8E-03	2.1E-03	5.6E-03	9.0E-03	2.8E-02	2.2E-02	1.7E-02	2.1E-02
02 5.2E-04	1.5E-04	4.8E-04	3.7E-04	2.5E-03	6.8E-03	3.7E-03	1.5E-03	3.6E-03
			CHIODTA	IE. Z=17				
4457	2KEV	6 V EV		16KEV	32KEV	64KEV	128KEV	256KEV
1KEV		4KEV	8KEV		3.029E-01	1.360E-01	2.829E-01	4.964E-01
A1 -4.997E-01				6.942E-01				
A2 2.054E-01	1.840E-01	1.645E-01	1.534E-01		2.468E-01	2.630E-01	2.633E-01	2.608E-01
A3 -1.716E-02								
A4 8.853E-04	2.320E-04		1.504E-05			5-237E-07	1.098E-07	
CO 5.801E-01	8.344E-01		-9.841E-01					
C1 3.557E-01	8.336E-01		-1.031E+00					
C2 2.033E-01	5.079E-01		-6.767E-01				-2.214E-01	
C3 7.955E-02	2.535E-01		-3.662E-01				-9.564E-02	
C4 2.913E-02	1.068E-01		-1.647E-01				-2.692E-02	
C5 9.506E-03	3.601E-02		-5.678E-02				-1.046E-03	
C6 2.123E-03	7.513E-03		-1.127E-02			3.545E-03	2.504E-03	
8 1.858E-02	9.460E-03		2.413E-03			3.350E-04		6.648E-05
D1 1.3E-03	2.2E-03	5.5E-03	3.9E-03	7.6E-03	8.1E-03	8.5E-03	7.6E-03	1.0E-02
D2 4.2E-04	2.3E-04	1.0E-03	3.8E-04	1.6E-03	2.1E-03	6.3E-04	6.9E-04	2.7E-03
			ARGON.					
1KEV	SKEA	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
	-5.446E-01		7.745E-01	7.001E-01	3.434E-01		5.349E-01	
A2 1.468E-01	2.051E-01	1.962E-01	1.519E-01		2.461E-01			2.519E-01
A3 -1.710E-02	-9.645E-03	-4.136E-03						
A4 1.165E-03	3.634E-04	9.998E-05			2.704E-06			1.365E-08
C0 -1.127E-01	7.818E-01		-8.353E-01					
C1 -3.553E-01	6.983E-01	1.183E+00	-8.358E-01	-9.938E-01	-4.465E-01	-8.634E-01	-9.010E-01	-1.464E+00
C2 -2.223E-01	3.838E-01	8.746E-01	-5.250E-01	-7.013E-01	-3.085E-01	-6.144E-01	-6.357E-01	-1.093E+00
C3 -1.378E-01	1.706E-01	5.150E-01	-2.731E-01	-4.069E-01	-1.814E-01	-3.613E-01	-3.650E-01	-6.610E-01
C4 -6.122E-02	6.301E-02	2.495E-01	-1.187E-81	-1.946E-01	-9.040E-02	-1.764E-01	-1.710E-01	-3.252E-01
C5 -2.011E-02	1.852E-02	9.367E-02	-3.974E-02	-7.045E-02	-3.483E-02	-6.570E-02	-5.986E-02	-1.192E-01
C6 -3.889E-03	3.374E-03	2.073E-02	-7.640E-03	-1.450E-02	-7.855E-03	-1.405E-02	-1.164E-02	-2.465E-02
8 2.169E-02	1.1256-02	5.761E-03	2.826E-03	1.516E-03	7.845E-04	3.452E-04	1.566E-04	6.648E-05
01 8.4E-04	1.5E-03	4.1E-03	2.7E-03	6.3E-03	7.3E-03	1.5E-02	1.8E-02	2.5E-02
D2 2.5E-04	2.6E-04	5.3E-04	3.8E-04	8.2E-04	2.1E-03	2.2E-03	2.6E-04	1.7E-03
			POTASSI	[UM, Z=19				
1KEV	SKEA	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -4.937E-01	-2.525E-01	-2.181E-01	-1.124E-01	7.7558-01	1.315E+00	1.533E-01	2.599E-01	3.652E-01
A2 6.544E-02	7.373E-02	1.003E-01	1.274E-01	1.732E-01	1.844E-01	2.594E-01	2.629E-01	2.661E-01
A3 -9.403E-04	-5.797E-04	-4.631E-04	-3.395E-04	-4.905E-04	-2.432E-04	-4.084E-04	-1.889E-04	-8.962E-05
A4 6.235E-06	2.095E-06	9.567E-07	4.089E-07	1.065E-06	2.666E-07	5.346E-07	1.108E-07	2.410E-08
CO 9.954E-01	7.820E-01	9.264E-01	9.338E-01	-8.539E-01	-1.852E+00	-1.276E-01	-3.378E-01	-5.678E-01
C1 1.219E+00	1.087E+00	1.530E+00	1.825E+00	-8.150E-01	-2.202E+00	-3.408E-02	-2.969E-01	-6.039E-01
C2 1.097E+00	9.708E-01			-4.595E-01	-1.621E+00			
C3 7.339E-01	7.172E-01	1.045E+00	1.456E+00	-1.909E-01	-9.735E-01	6.176E-02	-4.642E-02	-2.013E-01
C4 4.175E-01	4.447E-01	6.362E-01		-5.060€-02	-4.799E-01	4.467E-02	-1.433E-03	-7.834E-02
C5 1.903E-01	2.183E-01	2.991E-01	4.136E-01	-1.763E-03	-1.786E-01	2.085E-02	8.191E-03	-1.888E-02
C6 5.525E-02	6.355E-02		1.064E-01		-3.791E-02	4.968E-03	3.983E-03	-6.589E-04
8 3.791E-03	2.002E-03		6.399E-04	6.821E-04	3.422E-04	3.150E-04	1.453E-04	6.648E-85
01 1.5E-02	2.0E-02	2.8E-02	4.6E-02	8.8E-02	8.3E-02	1.2E-01	1.1E-01	1.1E-01
02 2.16-03	3.3E-03	4.4E-83	8.2E-03	1.9E-03	7.4E-03	8.1E-03	7.5E-03	8.8E-03
				1, Z=20				
1KE V	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -1.516E-01	2.990E-01				1.589E+00		6.884E-01	
A2 4.588E-02	4.796E-02	7.345E-02	7.370E-02	1.294E-01	1.681E-01	2.107E-01	2.444E-01	
A3 -6.376E-04	-2.993E-04	-2.868E-04	-9.988E-05	-1.706E-04	-1.816E-04	-1.698E-04	-1.358E-04	-1.258E-04
A4 6.870E-06			6.848E-08					
CO 4.545E-01	-1.256E-01	-4.309E-01	-2.112E+00	-1.279E+00	-2.259E+00	-1.668E+00	-1.017E+00	-1.695E-01
			-2.440E+00					
			-1.779E+00					
			-1.082E+00					
C4 1.839E-01			-5.537E-01					
			-2.194E-01					
C6 5.055E-05			-5.046E-02					
B 4.273E-03			4.102E-04		2.598E-84			
D1 5.5E-03	6.7E-03	5.1E-03	2.9E-02	2.4E-02	4.8E-02	7.2E-02	8.2E-02	1.3E-01
D1 5.5E-03 D2 1.0E-03	6.7E-03 7.3E-04	1.7E-03	1.6E=03	7.7E-03	7.3E-03	3.6E-03	1.1E-03	6.5E-03

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

				IM, Z=21	10,454	C 4 14514	420454	arcuru
1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV 4.353E-01
A1 -2.097E-01		1.018E-01	2.280E-01 1.229E-01	4.977E-01 1.753E-01	1.269E+00 1.801E-01	2.592E-01 2.523E-01	6.405E-01 2.465E-01	2.638E-01
A2 4.810E-02 A3 -7.287E-04	7.333E-02						-1.482E-04	
A4 8.702E+06	4.655E-06	2.128E-06	7.281E-07	1.130E-06	2.627E-07	5.424E-07	5.966E-08	2.492E-08
CO 5.286E-01	7.155E-01	7.103E-01	2.318E-01	-3.722E-01	-1.737E+00	-2.711E-01	-9.282E-01	
C1 5.938E-01	9.601E-01	1.120E+00	7.131E-01				-1.056E+00	
C2 5.869E-01	8.717E-01	1.004E+00	8.178E-01				-7.462E-01	
C3 3.536E-01	6.398E-01	7.270E-01	6.662E-01			-6.839E-03	-4.308E-01	-2.578E-01
C4 1.870E-01	3.899E-01	4.388E-01	4.219E-01		-4.094E-01		-2.041E-01	
C5 7.595E-02	1.873E-01	2.064E-01 5.624E-02	1.980E-01 5.197E-02		-1.479E-01 -3.048E-02		-7.285E-02 -1.478E-02	
G6 1.912E-02 B 4.858E-03	5.396E-02 2.762E-03	1.540E-03	8.166E-04	6.818E-04	3.346E-04	3-134E-04	1.147E-04	6.648E-05
D1 4.5E-03	1.4E-02	1.9E-02	2.1E-02	6.4E-02	5.6E-02	1.1E-01	8.15-02	1.0E-01
D2 6.7E-04	2.1E-03	3.9E-03	3.0E-03	3.0E-03	5.6E-03	7.5E-03	5.8E-04	6.4E-03
52 54.2 54								
				M. Z=22				5-44-64
1KE V	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -2.565E-01		-3.372E-01	8.710E-01	1.513E+08	1.255E+00	3.851E-01 2.456E-01	3.684E-01 2.577E-01	2.820E-01 2.710E-01
A2 4.976E-02 A3 -8.234E-04	4.453E-02	1.101E-01	9.901E-02	1.218E-01	1.780E-01			
A4 1.040E-05	1.932E-06	3.019E-06	3.946E-07	1.269E-07	2.518E-07	5.123E-07	1.214E-07	4.152E-08
	-2.343E-02						-4.920E-01	
	-2.070E-03	1.449E+00	-8.349E-01	-2.195E+00	-1.957E+00	-4.341E-01	-4.891E-01	-4.211E-01
C2 6.192E-01	1.078E-01	1.262E+00	-5.102E-01	-1.530E+00	-1.395E+00	-2.529E-01	-3.021E-01	-2.627E-01
C3 3.542E-01	1.251E-01	8.975E-01	-2.642E-01	-8.716E-01	-8.092E-01	-1.168E-01	-1.522E-01	-1.362E-01
C4 1.815E-01	9.349E-02						-6.436E-02	
C5 7.121E-02	4-893E-02						-2.206E-02	
C6 1.742E-02	1.431E-02						-4.315E-03 1.529E-04	8.163E-05
B 5.383E-03	2.560E-03	2.3E-02	7.578E-04 3.5E-03	3.900E-04 7.3E-03	3.477E-04 4.8E-02	3.202E-04 1.0E-01	9.6E-02	1.0E-01
D1 3.6E-03 D2 3.8E-04	6.1E-03 1.1E-03	5.1E-03	1.4E-03	8.5E-04	5.1E-03	4.1E-03	6.9E-03	5.8E-04
UZ 3.0E-U4	1.15-00	J. 1L 03	1442 00	0472 04	J 41 2 40	****	3172 00	
			VANADIL	JM, Z=23				
1KEV	2KEV	4KEV	8KEV	16KEV	32KE V	64KEV	128KE V	256KEV
A1 -2.874E-01	1.782E-01	5.685E-01		1.380E+00	1.223E+00	8.231E-01	8.622E-01	3.633E-01
A2 5.057E-02	4.390E-02	6.549E-02		1.239E-01		2.278E-01	2.364E-01	2.677E-01
							-1.223E-04	
44 1.196E-05	2.138E-06	9.344E-07		1.493E-07		4.285E-07	4.579E-08 -1.263E+00	3.789E-08
CO 6.120E-01	1 1005-01	-4.//2E-U1	-7 646E-01	-1 9076400	-1.033ETUU	-1.177E+00	-1.479E+00	-5.44UE-UI
C1 6.648E-01 C2 6.230E-01	2.068F=01	-3.277F-01	-4.729F-01	-1.305F+00	-1.317F+00	-9.831F-01	-1.077E+00	-3.622E-01
C3 3.375E-01							-6.423E-01	
C4 1.679E-01	1.225E-01	-6.785E-02	-1.131E-01	-3.400E-01	-3.578E-01	-2.933E-01	-3.162E-01	-8.525E-02
C5 6.389E-02	5.934E-02	-1.786E-02	-3.955E-02	-1.207E-01	-1.282E-01	-1.111E-01	-1.183E-01	-3.023E-02
C6 1.522E-02	1.656E-02	-2.062E-03	-7.990E-03	-2.503E-02			-2.486E-02	
B 5.871E-03		1.495E-03		4.271E-04	3.612E-04	3.221E-04	1.147E-04	8-175E-05
D1 2.8E-03	5.8E-03	5.1E-03	3.3E-03	5.8E-03	4.3E-02	9-2E-02	6.2E-02	9.5E-02
D2 1.6E-04	1.1E-03	8.2E-04	1.3E-03	3.7E-04	4.3E-03	1.6E-03	3.6E-03	1.8E-03
			CHROMT	JM, Z=24				
1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -3.700E-01	1.220E-01	5.627E-01	6.787E-01	1.700E-02	6.388E-01	9.247E-01	1.107E+00	5.402E-01
A2 5.314E-02	4.220E-02	6.134E-02	1.024E-01	1.615E-01	2.002E-01	2.205E-01	2.267E-01	2.619E-01
A3 -9.675E-04								
A4 1.049E-05	1.452E-06	6.527E-07	4.908E-07	4.093E-07	5.152E-07	3.378E-07	3.076E-08	3.205E-08
CO 7.217E-01 C1 7.868E-01		-4.626E-01 -4.780E-01					-1.648E+00 -1.977E+00	
C1 7.868E-01 C2 7.120E-01							-1.468E+00	
C3 3.782E-01							-8.892E-01	
C4 1.887E-01		-4.686E-02					-4.406E-01	
C5 7.327E-02		-7.272E-03		3.326E-01		-1.134E-01	-1.637E-01	-6.076E-02
C6 1.834E-02		9.509E-04					-3.421E-02	
B 6.257E-03		1.503E-03					1.147E-04	
01 3.5E-03	5.7E-03	5.5E-03	6.2E-03	3.5E-02	5.4E-02	7.1E-02	4.9E-02	7.6E-02
72 4.6E-04	1.1E-03	8.5E-04	2.2E-03	4.7E-03	3.3E-03	5.0E-03	5.4E-03	6.3E-03
			MANGANI	ESE, Z=25				
1 KE V	2KEV	4KEV	BKEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -2.700E-01	5.196E-02	5.392E-01	8.406E-01	-1.815E-01	1.659E+00	8.615E-01	1.055E+88	4.995E-01
A2 4.677E-02	4.394E-02	5.921E-02	9.302E-02				2.282E-01	
A3 -9.322E-04								
A4 1.316E-05	2.785E-06						3.467E-08	
C0 5.541E-01		-4.249E-01 -4.309E-01					-1.554E+00 -1.846E+00	
C1 5.588E-01 C2 5.261E-01		-2.507E-01					-1.362E+00	
C3 2.432E-01		-1.031E-01					-8.196E-81	
C4 1.146E-01		-2.358E-02		8.001E-01	-5.748E-01	-2.834E-01	-4.043E-01	-1.286E-01
C5 4.099E-02		3.099E-03	-6.215E-02	3.642E-01	-2.127E-01	-1.050E-01	-1.499E-01	-4.274E-02
C6 9.092E-03	1.912E-02	3.574E-03	-1.344E-02	9.262E-02			-3-147E-02	
B 6.671E-03		1.685E-03					1.147E-04	
D1 1.8E-03	5.1E-03	5.4E-03	3.9E-03	3.5E-02	1.0E-02	7.8E-02	4.9E-02	8.2E-02
D2 1.5E-04	1.0E-03	5.3E-04	7.0E-04	4.4E-03	2.8E-03	3.9E-03	5.1E-03	4.5E-03

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

TABLE II. I arameters for Twelve-1 arameter 17ts to Differential Closs Sections											
TOON 7-20											
	4.4654		4 1400 14	IRON, Z		20454		4.55454			
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV		
		-1.490E-01	5.089E-01	8.768E-01	1.845E-01			-5.016E-02			
A2	4.842E-02		5.639E-02		1.529E-01	1.537E-01	2.255E-01		2.493E-01		
								-1.632E-04			
A4	1.567E-05	4.561E-06	1.017E-06		4.613E-07	7.628E-08	3.446E-07	8.842E-08			
CO	5.739E-01		-3.718E-01			-2.129E+00			-1.290E+00		
C1	5.629E-01		-3.603E-01			-2.481E+00			-1.512E+00		
CS	5.215E-01		-1.826E-01			-1.788E+00			-1.104E+00		
C 3	2.249E-01	4.554E-01	-5.257E-02	-3.964E-01	8.98ZE-01	-1.051E+00	-3.853E-01	7.899E-01	-6.565E-01		
C4	1.059E-01	2.545E-01		-1.942E-01	5.870E-01	-5.066E-01	-1.761E-01		-3.189E-01		
C5	3.836E-02	1.104E-01	1.521E-02	-7.257E-02	2.825E-01	-1.846E-01	-6.097E-02	2.260E-01	-1.156E-01		
C6	8.562E+03	2.926E-02	6.332E-03	-1.562E-02	7.528E-02	-3.817E-02	-1.254E-02	5.544E-02	-2.356E-02		
8	7.224E-03	3.721E-03	1.781E-03	9.759E-04	6.396E-04	2.800E-04	3.355E-04	1.590E-04	6.648E-05		
01	1.4E-03	5.7E-03	5.6E-03	4.6E-03	2.5E-02	9.1E-03	7.2E-02	7.3E-02	6.2E-02		
92	2 . 2E - 04	2.5E-04	5.0E-04	3.0E-04	3.2E-03	2.1E-03	3.4E-03	5.7E-03	9.0E-03		
				COBALT	Z=27						
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV		
At		-6.299E-02				1.881E-01		1.152E+00	3.166E-01		
A2	7.876E-92	4.463E-02	9.458E-02		1.271E-01			2.228E-01			
								-9.382E-05			
A4	3.489E-05	3.681E-06		6.325E-07				2.724E-08			
ĈĪ	1.027E+00	4.058E-01		-7.925E-01				-1.685E+00			
C1	1.073E+00	5.047E-01		-8.165E-01				-1.999E+00			
C2	8.859E-01	5.155E-01		-5.513E-01				-1.471E+00			
C3	4.313E-01	3.378E-01		-3.138E-01				-8-833E-01			
C4	2.156E-01	1.835E-01		-1.480E-01				-4.338E-01			
C5	8.618E-02	7.611E-02		-5.271E-02				-1.597E-01			
C6	2.274E-02	1-909E-02		-1.075E-02				-3.323E-02			
В	8.633E-03	3.739E-03		1.078E-03				1.147E-04	1.147E-04		
01	6.2E-03	4.1E-03	2.0E-02	3.6E-03	3.7E-03	3.6E-02	1.7E-02	3.9E-02	9.2E-02		
D2	4.8E-04	7.1E-04	3.7E-03	9.7E-04	5.5E-04	6.6E-03	4.7E-03	5.48-03	2.8E-03		
				NICKEL,							
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV		
A1	-7.229E-01	-1.605E-01	1.366E-02	8.025E-01	1.007E+00	1.404E+00	6.711E-02	1.182E+00	8.184E-01		
A2	1.037E-01	4.823E-02	6.465E-02	8.573E-02	1.261E-01	1.556E-01	2.525E-01	2.208E-01	2.499E-01		
A3	-4.103E-03	-5.795E-04	-4.122E-04	-3.084E-04	-2.702E-04	-1.758E-04	-4.402E-04	-9.159E-05	-7.029E-05		
A4	7.672E-05	4.838E-06	1.714E-06	6.604E-07	3.098E-07	1.003E-07	6.501E-07	2.465E-08	1.636E-08		
CO	1.029E+00	5.383E-01		-8.031E-01				-1.723E+00			
C1	9.718E-01	6.533E-01		-8.365E-01				-2.042E+00			
C2	7.415E-01	6.247E-01		-5.662E-01				-1.504E+00			
C3	2.825E-01	3.938E-01		-3.196E-01				-9.052E-01			
C4	1.164E-01	2.090E-01		-1.479E-01				-4.465E-01			
C5	3.081E-02	8.562E-02		-5.128E-02				-1.652E-01			
		2.150E-02		-1.007E-02				-3.420E-02			
C6 B	8.452E-04					3.219E-04		1.147E-04			
	1.063E-02	4.093E-03					7.9E-02	3.5E-02	5.8E-02		
01	1.6E-02	3.9E-03	2.4E-02	3.8E-03	3.7E-03	7-1E-03		5.3E-03			
DS	3.0E-03	2.3E-04	2.4E-03	8.9E-04	5.2E-04	1.1E-03	3.7E-03	9.3E-03	7.9E-03		
				CORRER	7-20						
	4.45.11	2454		COPPER		72KEN	C 4 1/C 1/	439454	356450		
	1KEV	ZKEV	4KEV	BKEV	16KEV	32KEV	64KEV	128KEV	256KEV		
		-2.253E-01			1.988E-01		1.569E+00		-1.208E-01		
		4.669E-02		1.045E-01	1.464E-01	1.849E-01	1.827E-01	2.076E-01	2.543E-01		
								-6.805E-05			
A4	1.812E-05	3.382E-06	1.722E-06	1.041E-06	4.937E-07	2.041E-07	3.142E-08	1.044E-08	7.184E-09		
						2./35E-01	-2.251E+00	-2.257E+00			
Ci	6.520E-01			8.063E-01	8-240E-01			-2.749E+00	9.675E-01		
CS			8.434E-01	8.560E-01	9.518E-01			-2.074E+00			
C3		4.644E-01	6.565E-01	7.012E-01	7.924E-01			-1.277E+00	6.929E-01		
C4	1.528E-01	2.519E-01	4.139E-01	4.666E-01	5.160E-01			-6.424E-01	3.774E-01		
C5	6.758E-02	1.080E-01	2.019E-01	2.364E-01	2.494E-01		-2.222E-01		1.455E-01		
C6	1.996E-02	2.935E-02	5.778E-02	6.757E-02	6.715E-02			-5.024E-02	3.037E-02		
В	7.4085-03	4.015E-03	2.283E-03	1.354E-03	7.691E-04		1.786E-04		5.987E-05		
01	1.0E-02	5.3E-03	1.3E-02	2.06-02	2.2E-02	3.2E-02	1.4E-02	2.5E-02	5.6E-02		
02	3.9E-03	6.8E-04	1.1E-83	2.6E-03	3.5E-03	6.8E-03	3.9E-03	4.1E-03	9.1E-03		
				ZINC.							
	1KE V	SKEA	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV		
A1	-2.983E-01	-1.734E-01	3.107E-01	8.038E-01	8.254E-01	2.618E-01		1.276E+00	9.181E-01		
A2	4.704E-02			7.788E-02		1.809E-01	2.642E-01		2.462E-01		
						-2.896E-04	-4.478E-04	-8.963E-05	-6.608E-05		
		5.148E-06	1.296E-06	7.010E-07	5.029E-07		5.212E-07	2.094E-08	1.345E-08		
CO	5.104E-01	5.281E-01	-4.848E-02	-7.941E-01	-8.365E-01	1.682E-01		-1.855E+00			
C1	4.310E-01	6.023E-01	5.011E-02	-8.273E-01	-7.945E-01	7.408E-01		-2.201E+00			
C2	4.200E-01	5.719E-01	1.711E-01	-5.489E-01	-4.791E-01	9.590E-01		-1.622E+00			
C3	1.128E-01	3.317E-01	1.763E-01	-2.972E-01	-2.430E-01	8.517E-01	1.611E+00	-9.739E-01	-6.619E-01		
C4	7.661E-02	1.675E-01		-1.292E-01		5.750E-01	9.261E-01	-4.772E-01	-3.157E-01		
C5	2.928E-02	6.492E-02	6.014E-02	-4.115E-02	-3.371E-02	2.812E-01		-1.742E-01			
C6				-7.293E-03	-6.282E-03	7.505E-02	9.499E-02	-3.508E-02	-2.165E-02		
8	9.179E-03	4.483E-03		1.242E-03	7.691E-04	4.305E-04	4.028E-04	1.147E-04	7.411E-05		
8 01		4.483E-03 2.9E-03		1.242E-03 4.1E-03	7.691E+04 7.6E-03	4.305E-04 2.8E-02	4.028E-04 7.4E-02	1.147E-04 2.6E-02	7.411E-05 5.0E-02		
	9.179E-03		2.208E-03								

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

		GALLIUM					
1KEV ZKEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -5.335E-02 -1.522E-01	3.374E-01	8.823E-01	2.425E-01	2.873E-01	1.774E-02		8.313E-01
A2 2.382E-02 4.097E-02 A3 -5.486E-04 -5.643E-04	4.268E-02	6.922E-02	1.405E-01	1.772E-01	2.128E-01	2.356E-01	2.494E-01
A4 9.910E-06 5.078E-06	1.222E-06	6.674E-07	7.128E-07	2.497E-07	8.553E-08	8.076E-08	1.664E-08
	-8.987E-02 -		2.050E-01	1.326E-01		-1.138E+00	
	-9.067E-03 -		6.871E-01	6.895E-01		-1.264E+00	
C2 1.468E-01 5.183E-01	1.259E-01 -	-6.556E-01	8.123E-01	9.082E-01	1.314E+00	-8.802E-01	-9.773E-01
C3 -5.607E-02 2.880E-01	1.412E-01 -		6.804E-01	8.075E-01		-5.019E-01	
C4 2.973E-03 1.432E-01	9.916E-02 -		4.443E-01	5.431E-01		-2.340E-01	
C5 -1.806E-03 5.476E-02	4.830E-02		2.154E-01	2.640E-01		-8.118E-02	
C6 -2.313E-03 1.299E-02	1.311E-02 -		5.830E-02	7.026E-02		-1.496E+02 1.705E+04	7.4118-05
B 7.366E-03 4.107E-03 01 3.3E-03 4.1E-03	2.021E-03 5.0E-03	1.144E-03 5.2E-03	7.644E-04 2.3E-02	4.035E-04 2.9E-02	2.106E-04 4.4E-02	7.1E-02	6.4E-02
D2 6.4E-04 6.3E-04	1.5E-03	5.3E-04	3.3E-03	5.0E-03	8.2E-03	5.6E-03	7.7E-03
50 00 42 54 0000 04	1172 00	3000 04	0.02 00	J	3422 03	7.02 00	,
		GERMAN1	UM. Z=32				
1KEV 2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -1.117E-01 -1.641E-01	9.756E-02	8.382E-01	1.041E+00		-6.104E-03	7.921E-01	3.601E-01
AZ 3.244E-02 4.265E-02	5.336E-02	6.760E-02	1.145E-01	1.855E-01	2.185E-01	2.359E-01	2.691E-01
A3 -1.061E-03 -6.746E-04							
A4 2.478E-05 8.112E-06		9.126E-07		3.998E-07	1.192E-07	8-159E-08	6.191E-08
C0 2.329E-01 4.767E-01	2.709E-01 ·			3-171E-01		-1.063E+00	
C1 9.574E-02 4.987E-01 C2 1.820E-01 4.779E-01	4.408E-01 -			8.706E-01		-1.154E+00	
C2 1.820E-01 4.779E-01 C3 -4.509E-02 2.467E-01	3.635E-01		-8.622E-01	9.930E-01 8.150E-01		-7.857E-01 -4.372E-01	
C4 1.877E-02 1.170E-01	2.167E-01			5.171E-01		-1.983E-01	
C5 1.944E-03 4.228E-02	9.790E-02			2.396E-01		-6.648E-02	8.399E-04
C6 -1.141E-03 9.250E-03	2.594E-02			6.086E-02		-1.151E-02	1.331E-03
B 9.104E-03 4.731E-03		1.286E-03	7.445E-04	4.644E-04	2.326E-04	1.659E-04	1.147E-04
D1 2.4E-03 2.7E-03	6.1E-03	4.2E-03	6.3E-03	2.9E-02	4.4E-02	6.2E-02	9.6E-02
02 2.5E-04 4.4E-04	2.5E-04	5.3E-04	5.5E-04	4.0E-03	8.5E-03	4.0E-03	8.5E-04
		ARSENIO					
1KEV 2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -2.164E-01 -5.365E-01	1.657E-01 -			1.134E+00		1.383E+00	8.994E-01
A2 4.910E-02 7.503E-02	4.769E-02	1.124E-01		1.570E-01	2.186E-01	2.116E-01	2.469E-01
A3 -2.194E-03 -1.816E-03							
A4 5.956E-05 2.612E-05 C0 3.415E-01 9.662E-01	3-468E-06		7.539E-07	2.977E-07	1.631E-07	2.694E-08	1.790E-08
C0 3.415E-01 9.662E-01 C1 1.989E-01 1.051E+00	1.514E-01 2.670E-01		-1.125E+00 -1.198E+00			-2.007E+00 -2.390E+00	
C2 2.467E-01 8.713E-01	3.310E-01		-8.216E-01			-1.774E+00	
C3 -1.917E-02 4.708E-01	2.535E-01		-4.758E-01			-1.076E+00	
C4 4.097E-02 2.289E-01	1.488E-01		-2.312E-01			-5.356E-01	
C5 6.727E-03 8.806E-02	6.491E-02		-8.618E-02			-2.004E-01	
C6 3.286E-04 2.149E-02	1.643E-02		-1.850E-02			-4.259E-02	
B 1.125E-02 6.171E-03	2.796E-03	1.820E-03	8.439E-04	4.514E-04	2.635E-04	1.147E-04	7.411E-05
D1 1.7E-03 5.6E-03	4.1E-03	2.2E-02	5.0E-03	6.3E-03	3.8E-02	1.6E-02	4.4E-02
D2 4.0E-05 9.7E-04	8.9E-04	3.6E-03	3.7E-04	4.8E-84	6.3E-03	3.8E-03	5.9E-03
		CELENT	JN, Z=34				
IKEV 2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -2.715E-01 -3.574E-01		7.336E-01	9.787E-01		-6.454E-02	1.514E+00	9.844E-01
AZ 6.408E-02 6.402E-02	5.286E-02		1.132E-01	1.709E-01	2.220E-01	2.062E-01	2.437E-01
A3 -3.602E-03 -1.640E-03							-8.041E-05
A4 1.126E-04 2.949E+05	6.028E-06	1.793E-06	1.024E-06	5.759E-07	2.274E-07	2.465E-08	1.725E-08
CO 3.781E-01 6.847E-01			-1.081E+00			-2.206E+00	-1.429E+00
C1 2.160E-01 6.859E-01			-1.149E+00			-2.646E+00	
C2 2.477E-01 5.879E-01			-7.872E-01			-1.973E+00	
C3 -3.092E-02 2.812E-01			-4.551E-01			-1.200E+00	
C4 4.405E-02 1.279E-01	1.723E-01 -					-5.969E-81	
C5 2.793E-03 4.524E-02			-8.140E-02			-2.217E-01	
C6 -5.956E-04 9.738E-03 B 1.337E-02 6.762E-03	1.786E-02 3.301E-03		-1.734E-02 9.559E-04	5.552E-04		-4.579E-02	
01 1.4E-03 1.6E-03	4.0E-03	3.7E-03	4.0E-03	1.0E-02	2.982E-04 3.5E-02	1.147E-04 1.8E-02	7.411E-05
D2 4.0E-05 3.3E-04	7.5E-04	5.6E-04	2.1E-04	1.0E-02 1.2E-03	5.3E-03	3.6E-03	3.2E-02 4.8E-03
31 7002 05 3002 04	,,	,,,,,		1422 05	7000 00	0.02 00	4000 00
		BROMINE					
1KEV 2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 -5.235E-01 -4.991E-01			9.558E-01	1.000E+00	6.562E-02		1.084E+00
A2 1.081E-01 8.258E-02			1.122E+01			2.265E-01	
A3 -7.277E-03 -2.640E-03							
A4 2.413E-04 5.349E-05 C0 6.420E-01 8.370E-01	1.034E-05		-1.045E+00			8.348E-08 -1.377E+00	
C1 4.658E-01 8.258E-01			-1.108E+00			-1.550E+00	
C2 3.968E-01 6.707E-01			-7.581E-01			-1.096E+00	
C3 3.721E-02 3.119E-01			-4.366E-01			-6.345E-01	
C4 8.326E-02 1.400E-01			-2.095E-01			-2.998E-01	
C5 1.147E-02 4.920E-02	7.998E-02 -					-1.054E-01	
C6 1.959E-03 1.061E-02			-1.615E-02			-2.028E-02	
B 1.608E-02 7.961E-03	3.864E-03		1.077E-03		4.170E-04	1.717E-04	7.411E-05
01 9.5E-04 1.5E-03							
	3.9E-03	1.1E-02	3.3E-03	4.2E-03	4.4E-02	2.6E-02	2.2E-02
02 1.6E-04 2.7E-04	3.9E-03 6.7E-04	1.1E-02 3.6E-03	3.3E-03 1.1E-04	4.2E-03 2.5E-04	4.4E-02 2.5E-03	2.6E-02 2.9E-03	2.2E-02 3.6E-03

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

	414514	3454	4 10014		N, Z=36	30454			
A 1	1KEV 6.709E-01	2KEV 3.048E-01	4KEV 4.607E-01	8KEV 5.947E-01	16KEV 7.375E-01	32KEV 2.422E+00	64KEV 2.322E+00	128KEV 1.191E+00	256KEV
	-4.406E-02	8.579E-03	2.005E-02	6.598E-02	1.172E-01	9.817E-02	1.462E-01	1.993E-01	1.661E+00 2.174E-01
A3					-4.770E-04				
A4	8.157E-07	2.661E-08	2.807E-38	3.601E-06	2.021E-06	2.612E-08	2.272E-08	1.755E-08	4.865E-09
CO	-7.948E-01								
	-1.037E+00								
	-5.757E-01								
	-4.863E-01								
	-1.435E-01				-4.498E-02				
	-7.481E-02				-3.077E-03				
	-1.904E-02			6.589E-03				-7.620E-03	
В	1.269E-02	9.616E-04	8.274E-04	2.199E-03	1.236E-03	2.735E-04	1.736E-84	1.1328-04	5.406E+05
D1 D2	8.4E-03 1.5E-03	2.1E-02 2.2E-03	9.8E-03 2.5E-03	4.0E-03 8.5E-04	5.1E-03 9.5E-04	5.0E-02 7.0E-03	5.2E-02 4.6E-03	4.3E-02 7.0E-03	3.7E-02 3.6E-03
	1076-03	2021-03	2.50	0.75-04	3636-04	7.00-03	4.02-03	7.01-03	3.00-03
				RUBIDI	JM, Z=37				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1	9.953E-02	1.906E-01	4.178E-01	1.049E+00	1.978E+00	5.705E-01	5.694E-01	1.347E+00	4.798E-01
SA	5.350E-03	1.228E-02	2.103E-02	3.241E-02	5.444E-02	1.658E-01	2.126E-01	2.087E-01	2.621E-01
	-2.346E-05							-1.259E-04	
A4	8.596E-08	1.280E-07	8.199E-08	4.504E-08	3.5098-08	5.438E-07	3.823E-07	3.663E-08	6.773E-08
	-4.404E-02								
	-1.786E-01							-2.206E+00	
CS			-1.691E-01					-1.607E+00	
	-1.290E-01					1.312E-01		-9.577E-01	
	4.161E-02					1.144E-01		-4.672E-01 -1.701E-01	
	-4.845E-03 -4.549E-04					6.171E-02		-3.338E-02	3.852E-03
В	2.073E-03	1.397E-03		4.726E-04	3.005E-04	1.718E-02 4.754E-04	3.346E-04	1.147E-04	3.978E-03 1.147E-04
01	1.5E-02	8.0E-03	8.6E-03	9.4E-03	2.6E-02	8.7E-02	1. 0E-01	7.9E-02	1.3E-01
02		2.6E-03	1.6E-03	4.2E-03	6.8E-03	1.7E-03	5.6E-03	3.9E-03	7.1E-03
-	2402 44	2702 00	2002 00	7,000	0.02 00	20,5	3402 40	***	
				STRONT	[UM, Z=38				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A 1	7.740E-02	2.012E-01	3.703E-01	9.171E-01	1.794E+00	2.257E+00	2.598E+00	1.292E+00	1.090E+00
A2	5.960E-03	1.183E-02	2.280E-02	3.507E-02	5.729E-02	9.691E-02	1.329E-01	2.103E-01	2.373E-01
	-1.108E-05								
A4	2.795E-07	2.295E-07	1.759E-07	8-644E-08	5.922E-08	4.639E-08	1.876E-08	4.270E-08	1.719E-08
	-7.248E-03								
	-1.199E-01								
C2					-2.097E+00				
	-9.292E-02								
C4					-6.684E-01				
C5 C6					-2.643E-01 -6.067E-02				
8	2.984E-03	1.728E-03	1.023E-03		3.446E-04	2.169E-04	1.147E-04	1.147E-04	6.648E-05
D1	1.0E-02	7.5E-03	7.5E-03	7.0E-03	1.9E-02	4.0E-02	5.4E-02	7.9E-02	1.0E-01
DS	1.8E-03	1.7E-03	7.6E-04	3.3E-03	5.7E-03	7.7E-03	8.6E-03	1.7E-03	6.2E-03
		20,2 00		****	7412 00		3332 33	2000	
				YTTRIU	1, Z=39				
	1KE V	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
	-2.838E-01	2.196E-01	3.571E-01	8.368E-01	1.681E+00	2.142E+00	6.237E-01	1.362E+00	1.136E+00
A2	3.470E-02	1.053E-02	2.296E-02	3.597E-02	5.792E-02	9.799E-02	2.093E-01	2.068E-01	2.355E-01
	-8.937E-04								
A4	1.251E-05	1.828E-07	2.168E-07	1.073E-07	7.230E-08	5.963E-08	4.798E-07	4.243E-08	1.759E-08
CO					-2.150E+00				
C1					-2.537E+00				
	5.448E-01 1.916E-01								
	2.311E-01								
	6.343E-02								
C6					-5.146E-02				
	6.115E-03								
01	2.9E-02	7.3E-03	7.4E-03	6.6E-03	1.5E-02	3.4E-02	1.1E-01	6.5E-02	9.2E-02
02		1.2E-03	5.8E-04	2.9E-03	4.9E-03	7.2E-03	7.1E-03	2.2E-03	7.2E-03
					[UM, Z=40	70	سد. و م	4 0 0 1 1 1 1	
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
	5.678E-02				1.622E+00	2.352E-01		1.449E+00	
A3	6.378E-03 1.365E-05				-7.345E-05			2.021E-01	
A4			2.173E-07					4.018E-08	
	2.457E-02							-2.020E+00	
	-6.546E-02							-2.342E+00	
	1.318E-01							-1.698E+00	
	-6.236E-02							-1.003E+00	
	1.032E-01							-4.814E-01	
C5			-4.454E-02			8.597E-02	1.636E-02	-1.704E-01	-1.513E-01
	7.200E-03							-3.222E-02	
В					4.102E-04			1.147E-04	
D1		7.4E-03	7.4E-03	6.8E-03	1.2E-02	1.0E-01	9.2E-02	5.3E-02	8.0E-02
D2	1.1E-03	1.0E-03	6.5E-04	2.8E-03	4.4E-03	7.7E-03	6.0E-03	3.1E-03	8.1E-03

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

		1KEV	2KEV	4KEV	8KEA NTOBIO	1, Z=41 16KEV	32KEV	64KEV	128KEV	256KEV
	41	2.084E-02	1.980E-01	3.906E-01	7.545E-01		1.995E+00	7.987E-01		-6.063E-01
	42	7-144E-03	9.855E-03	2.012E-02	3.503E-02		9.778E-02	1.954E-01		3.015E-01
	4.3								-1.818E-04	
	A4 30	5.678E+08 8.455E-02		7.403E-08	7.162E-08 -6.875E-01		8.124E-08 -2.707E+00	3.987E-07 -8.651E-01	9.523E-08	1.207E-07 1.228E+00
	Ci				-7.279E-01					1.930E+00
	CS				-4.411E-01					1.699E+00
	03 · 04				-2.281E-01					1.168E+00
	C5				-1.044E-01 -4.054E-02					6.390E-01 2.558E-01
	C6	1.133E-02			-1.014E-02					5.652E-02
	8	3.725E-03			7.278E-04		3.187E-04			1.217E-04
	01	1.0E-02	9.6E-03	8.0E-03	7.7E-03	1.1E-02	2.7E-02	6.7E-02	6.3E-02	1.2E-01
,	02	1.6E-03	1.8E-03	7.9E-04	3.0E-03	4.2E-03	6.6E-03	2.1E-03	7.6E-04	3.8E-03
		414511	2454			ENUM. Z=42	70// 01		4000511	255454
	A4 .	1KEV	2KEV	4KEV -4.652E-01	8KEV 7.002E-01	16KEV 1.482E+00	32KEV 1.025E+00	64KEV 2.359E+00	128KEV 2.134E+00	256KEV 1.815E+00
	42	4.019E-02	6.054E-02	5.490E-02				1.321E-01	1.776E+01	2.114E-01
									-7.845E-05	
	4	8.458E-06	1.298E-05	4.491E-06		5.285E-08	5.605E-07		1.860E-08	7.517E-09
	0.0	9.668E-01	1.016E+00						-3.139E+00	
	01 02	1.157E+00 1.131E+00	1.160E+00 1.067E+00						-3.847E+00 -2.938E+00	
	3 3	6.110E-01	6.055E-01						-1.837E+00	
	34	5.147E-01	3.820E-01						-9.446E-01	
	C5	1.750E-01	1.833E-01	1.997E-01	-2.489E-02	-1.647E-01	-5.391E-02	-3.982E-01	-3.681E-01	-2.835E-01
(26	6.309E-02	6.182E-02						-8.272E-02	
	В	6.933E-03	5.081E-03		6.968E-04					
)1 02	6.6E-02 5.6E-03	3.8E-02 6.1E-03	3.2E-02 8.2E-03	9.2E-03 3.4E-03	9.9E-03 3.9E-03	4.2E-02 2.6E-03	4.0E-02 6.2E-03	4.2E-02 5.5E-03	4.5E-02 8.0E-03
,	J.L	J. GE-03	0.16-03	0.EL-03	J.4E-03	34 36-03	2.00-03	0.25-03	3.96-03	9-06-03
		4050	2751			FIUM, Z=43	*2451	c 1 14511	4.500000	256454
	A + .	1KEV -2.334E-01	2KEV 1.796E-01	4KEV 3.382E-01	8KEV 6.700E-01	16KEV 1.393E+00	32KEV 1.992E+08	64KEV 8.976E-01	128KEV 1.834E+00	256KEV 1.343E+00
	A2	2.879E-02	9.710E-03	2.065E-02		5.548E-02	9.197E-02			2.283E-01
		-7.515E-04							-1.011E-04	
- 1	4	1.448E-05		1.1748-07		6.412E-08		4.203E-07		2.056E-08
	0.0								-2.615E+00	
	31								-3.118E+00	
	02 03	4.933E-01							-2.322E+00 -1.411E+00	
	34	2.315E-01	2.859E-03	-6.579E-02	-9.605E-02	-3.769E-01	-7.749E-01	-1.271E-01	-6.992E-01	-4.824E-01
(25	3.665E-02	8.970E-03	-2.671E-02	-4.053E-02	-1.407E-01	-3.062E-01	-3.918E-02	-2.577E-01	-1.803E-01
(26	1.896E-02							-5.177E-02	
,	8 01	7.926E-03 1.7E-02	2.243E-03 1.0E-02	1.372E-03 8.7E-03	8.193E-04 8.2E-03	4.749E-04 8.2E-03	3.158E-04 2.3E-02	3.577E-04 6.6E-02	1.147E-04 3.9E-02	7.411E-05
)2	2.6E-03	2.2E-03	1.3E-03	2.4E-03	3.5E-03	6.1E-03	1.5E-03	4.5E-03	5.9E-02 8.25+03
					DUTUEN	[UM, Z=44				
		1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
- 1	41 -	-4.603E-02		-1.125E-01			1.957E+00	1.084E+00	2.106E+00	1.536E+00
	42	9.371E-03	1.131E-02	4.316E-02	4.635E-02		9.039E-02	1.797E-01	1.763E-01	2.213E-01
									-7.942E-05	
	44 20	1.568E-07 1.841E-01	4.515E-08 1.975E-02	2.122E-06	4.938E-07	3.795E-08	6-411E-08	4.192E-07	2.217E-08 -3.066E+00	1.693E-08
	1		-6.333E-02						-3.734E+00	
	2	3.027E-01	1.444E-01						-2.840E+00	
	3	4.923E-02							-1.769E+88	
	;4 :-	1.801E-01	6.976E-02						-9.060E-01	
	25 26	9.318E-03 1.150E-02	3.997E-02 1.675E-02	1.226E-01 4.034E-02					-3.507E-01 -7.747E-02	
•	В	4.151E-03	1.9218-03			4.703E-04	3.536E-04			
ι)1	9.7E-03	1.5E-02	2.5E-02	1.7E-02	8.2E-03	2.1E-02	4.9E-02	3.9E-02	4.2E-02
E)2	1.5E-03	8.5E-04	5.3E-03	7.3E-04	3.6E-03	5.8E-03	1.4E-03	4.7E-03	8.3E-03
					RHODIUM	1, Z=45				
		1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
		-3.710E-01 3.609E-02	9.499E-02			1.289E+00			2.1975+00	1.639E+00
			1.186E-02 -3.225F-05				1.538E-01		1.718E-01 -7.187E-05	2.173E-01 +7.103E-05
ī	44	1.676E-05	6.315E-08	3.737E-08	4.394E-08	3.348E-08			1.937E-08	
(0	6.256E-01	4.353E-02	-3.223E-01	-6.113E-01	-1.484E+00	8.415E-01	-3.577E+00	-3.204E+00	-2.373E+00
	1				-7.053E-01				-3.912E+00	
	32 33	6.760E-01 2.750E-01			-4.604E-01 -2.767E-01				-2.982E+00	
	, 3 ; 4	2.989E-01			-1.507E-01				-1.861E+00 -9.552E-01	
	25	5.114E-02			-6.845E-02				-3.7035-01	
C	6	2.512E-02	1.447F-02	-1.331E-02	-1.837E-02	-2.570E-02	1.054E-01	-9.903E-02	-8.188E-02	-5.294E-02
_	8	9.430E-03			7.538E-04			1.660E-04	1.147E-04	7.411E-05
)1)2	2.0E-02 2.1E-03	1.6E-02 2.1E-03	9.0E-03 3.0E-03	9.9E-03 1.5E-03	7.6E-03 3.5E-03	5.3E-02 8.9E-03	3.9E-02 6.4E-03	4.0E-02 4.6E-03	4.0E-02 8.1E-03
_										

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

					[UM, Z=46				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
41	-3.302E-01	5.118E-01	3.890E-01	4.063E-01	1.277E+00	1.901E+00	2.525E+00	2.450E+00	1.701E+00
A2	5.156E-02	-1.685E-02	2.255E-02	4.962E-02	5.132E-02	8.321E-02	1.175E-01	1.616E-01	2.150E-01
43	-3.321E-03	9.205E-04	-7.867E-06	-1.036E-04	-4.569E-05	-1.913E-05	-4.541E-05	-4.670E-05	-6.328E-05
A4	1.521E-04	3.627E-11	6.717E-06	2.713E-06	1.586E-08	1.903E-08	1.142E-08	1.035E-08	1.690E-08
CO	4.955F-01	-5-545E-01	-3.422E-01			-2.476E+00	-3.624E+00	-3.604E+00	-2.465E+00
Ci	4.623F=01	-7.584F-01	-5.262F-01	-2-119F-01	-1-654F+00	-2.894E+00	-4.454F+DD	-4.434E+00	-2.925E+00
CS	4.000E 01	-3.730F-01	-3.0905-01	-7.337F-02	-1.154F+00	-2.117E+00	-3-415E+00	-3.397F+00	-2.193F+00
C3	1.301E-01	-3.369F=01	-2.378F-01	-2-988F-02	-6.656E-01	-1.274E+00	-2-153E+00	-2-126E+00	-1.348F+00
	2 440E-01	-0.0705-02	-4 321E-01	-1 SEDE-02	-3 2085-01	-6.324E-01	-1.123E+00	-1.090F+00	-6.806F-91
C4	2.1196-01	-9.9/06-02	-1.0215-01	-1.0035-02	4 2445 04	-3.7445-01	- L L COE- 04	-1.070E+00	-2 ERNE-84
C5	2.8746-03	-4.1091-02	-2.0505-05	-1.032E-02	7.7755 02	-2.381E-01	-4 0435-04	-0.0076-02	-E 506E-01
C6						-5.152E-02			
8	1.860E-02	7.423E-03	4.638E-03	2.463E-03	4.273E-04	4.157E-04	1.804E-04	1.147E-04	8.566E-05
91	9.9E-03	7.5E-03	9.4E-03	9.6E-03	8.4E-03	1.9E-02	4.1E-02	4.8E-02	2.9E-02
0.5	2.4E-03	1.1E-03	2.1E-03	5.4E-04	3.7E-03	7.3E-03	5.6E-03	3.8E-03	4.1E-03
				SILVER					
	1KEV	ZKEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
41	-2.670E-01	-2.012E-01	-1.420E-01	-3.643E-02	1.856E-01	3.515E-01	3.126E-01	2.296E-01	1.832E-01
A2	2.202E-02	3.169E-02	4.984E-02	5.675E-02	8.449E-02	1.311E-01	1.820E-01	2.199E-01	2.453E-01
A3	-2-949F-04	-4-776F-04	-5.437F-04			-2.768E-04	-2.887F-04	-1.994E-04	-1.192E-04
	2.814E-06	7.984E-06	5.678E-06	7.143E-07	4.692E-07		3.866E-07	1.309E-07	3.817E-08
A4						1.668E-01	1.685E-01	2.145E-01	2.149E-01
CO	5.017E-01	4.745E-01	4.704E-01	5.791E-01	3.8658-01				
C1	5.544E-01	5.080E-01	5.179E-01	9.326E-01	8.939E-01		7.872E-01	8.339E-01	8.408E-01
C5	5.929E-01	5.957E-01	5.307E-01	9.547E-01	9.914E-01	9.756E-01	1.805E+00	1.012E+00	1.011E+00
C3	2.355E-01	2.750E-01	3.170E-01	7.356E-01	8.137E-01		8.808E-01	8.581E-01	8.512E-01
C4	2.841E-01	2.392E-01	1.815E-01	4.665E-01	5.262E-01	6.060E-01	5.901E-01	5.563E-01	5.489E-01
C5	3.325E-02	1.050E-01	8.821E-02	2.351E-01	2.545E-01		2.876E-01	2.615E-01	2.546E-01
Ç6	2.286E-02	3.719E-02	2.795E-02	7.140E-02	6.972E-02	8.763E-02	7.661E-02	6.497E-02	6.246E-02
8	6.972E-03	6.032E-03	3.655E-03	1.545E-03	9.297E-04		4.024E-04	2.057E-04	9.987E-05
					3.4E-02	4.3E-02	4.8E-02	5.2E-02	5.3E-02
01	1.7E-02	2.8E-02	2.9E-02	3.0E-02				6.7E-03	7.9E-03
02	1.1E-03	1.6E-03	7.5E-03	4.3E-03	7.9E-03	9.2E-03	8.7E-03	0.15-03	1.75-03
				0.4.04.7.11	4 7-40				
					1, Z=48	20454	c	400454	256454
	1KE V	SKEA	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1	-1.014E-01	9.568E-02	3.314E-01	6.940E-01	1.164E+00		2.376E+00	2.489E+00	2.278E+00
A2	1.222E-02	9.262E-03	1.762E-02	3.018E-02	5.189E-02		1.176E-01	1.577E-01	1.935E-01
A3	-9.642E-05	-3.001E-05	-3.339E-05	-4.602E-05	-5.603E-05	-5.585E-05	-6.034E-05	-5.413E-05	-4.013E-05
A4	1.383E-06	4.271E-08	6.323E-08		3.578E-08		1.827E-08	1.081E-08	4.736E-09
CO	2.470E-01					-2.613E+00	-3.354E+00	-3.647E+00	-3.378E+00
C1	2.2705-01	-2.326F-02	-3.677E-01	-8-528F-01	-1-451F+00	-3.126E+00	-4-084F+00	-4.486E+00	-4-117E+00
		1 0035-01	-1 4705-01	-E 043E-01	-1 003E400	-2.347E+00	-3.110E+08	-3.445E+00	-3.141E+00
C2	3.242E-01	1.0925-01	-1.4705-01	456 54 3E - 01	-1.0032+00	4 4675400	- A OCCC+00		
C3	5.571E-02	6.9582-03	-1.198E-UI	-3.846E-U1	-5./656-01	-1.457E+00	-1.970CTU0	-241005700	-1.4793E+UU
C 4	1.762E-01	9.888E-82	-5-2646-02	-2.1/46-01	-2.0026-01	-7.510E-01	-1.0125+00	-1.1105 700	-7.07CE-01
C5	-2.369E-02	3.766E-02	-1.347E-02	-9.998E-02	-1.082E-01	-2.968E-01	-3.999E-U1	-4.35/E-U1	-3./11E-01
C6	4.336E-03	1.544E-02	-6.862E-04	-2.823E-02	-2.536E-02	-6.800E-02	-8.997E-02		
8	6.531E-03	1.802E-03	1.447E-03	7.457E-04	4.655E-04	2.711E-04	1.720E-04	1.006E-04	5.406E-05
D1	6.6E-03	1.4E-02	1.2E-02	1.1E-02	8.4E-03	1.6E-02	3.3E-02	4.4E-02	5.0E-02
02	5.4E-04	1.1E-03	4.0E-03	1.2E-03	3.2E-03	4.2E-03	5.7E-03	4.7E-03	4.8E-03

				MUIGNI	. Z=49				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
	-5.345E-02	9.4418-02		7.483E-01	1.150E+00		2.338E+00	2.392E+00	2.212E+00
AZ	9.296E-03	8.661E-03		2.752E-02	5.095E-02		1.168E-01	1.592E-01	1.951E-01
	7.2700-03					-6.337E-05			
							2.118E-08	1.361E-08	5.808E-09
A4	8.157E-07	4.271E-08	6.323E-08	4.073E-08	4.468E-08	2.923E-08	2 2075 00		
CO	1.708E-01	4.246E-02	-2./24E-U1	-1.401F-01	-1.200E+00	-2.483E+00	-7 DOD- 00	- N 3414ETUU	-3 DEUE: UL
C1	1.284E-01	-Z.115E-02	-4.12ZE-01	-1.UU/E+00	-1.454E+UU	-2.954E+00	-3.7076+00	-4. 2445 700	7 0045-00
C2	2.393E-01	1.910E-01	-1.737E-01	-7.261E-01	-1.015E+00	-2.206E+00	-3.U35E+00	-5.244E+00	-3.UU5E+UU
	-9.010E-06	2.182E-03	-1.394E-01	-4.793E-01	-5.934E-01	-1.363E+00	-1.903E+00	-2.032E+00	-1.867E+00
C4	1.413E-01	1.014E-01	-6.099E-02	-2.731E-01	-2.954E-01	-6.988E-01	-9.883E-01	-1.047E+00	-9.454E-01
C5	-4.590E-02	3.501F+02	-1.630E-02	-1.256E-01	-1.176E-01	-2.748E-01	-3.909E-01	-4.074E-01	-3.553E-01
	-1.418E-03	1.462F=02	-1.467F-03	-3-519F-02	-2.831F-02	-6.265E-02	-8-804E-02	-8.994E-02	-7.343E-02
-	5-206E-03	1 476E - 0 Z	1 2705-02	5 709E-04	4 474E-04	2.675E-04	1.660F-04	1.006F-04	5.406F-05
				1.2E-02	9.4E-03	1.4E-02	3.0E-02	4.2E-02	5.0E-02
01	5.8E-03	1.2E-02	1.1E-02			4.1E-03	6.1E-03	5.3E-03	6.9E-03
02	6.2E-04	1.46-03	3.1E-03	1.0E-03	3.0E-03	4.16-03	0.1E-03) # 3 L - 0 O	0.76-00
				TTM 7	-en				
	4 VEV	2452	LVEW	TIN, Z	-50 16KEV	32KEV	54KEV	128KEV	256KEV
	1KEV	SKEA	4KEV	8KEV					
A1		8.85 UE-02	3.661E-01	6.426E-01	7.703E=U1	1.733E+00	4 2025-04		
	4.597E-03	8.501E-03	1.399E-02	3.111E-02	5.4/3E-U2	8-180E-02	1.2U3E-U1	1.653E-01	1.970E-01
	-8.332E-06	2.122E-06	-1.361E-05	-5.51 3E-05	-/.bb6t-05	-7.481E-05	-/ . 54 UE-05	-1.000000000	-7 • 1 34E • U7
A4	4.796E-14	6.264E-08	4.608E-08	1.267E-07	9.094E-08	4.868E-08	5.239E-08	2.205E-08	1.323E-09
CO	4.631E-02	4.926E-02	-2.944E-01	-6.225E-01	-1.033E+00	-2.219E+00	-3.007E+00	-3.060E+00	-3.114E+00
C1	-3.343E-02	-1.161E-02	-4.385E-01	-7.873E-01	-1.121E+00	-2.603E+00	-3.621E+00	-3.681E+00	-3.757E+00
	1.034E-01	1.976E-01	-1.861E-01	-5.382E-01	-7.401E-01	-1.921E+00	-2.738E+00	-2.780E+00	-2.856E+00
	-8.987E-02	7.057E-04	-1.501E-01	-3.484E-01	-4.078E-01	-1.173E+00	-1.709E+00	-1.722E+00	-1.775E+00
	8.627E-02	1.0635-01	-6.425F-02	-1.944E-01	-1.910E-01	-5.937E-01	-8.843E-01	-8.749E-01	-8.993E-01
	-7.740E-02	3.208F=02	-1 - 715F-02	-8-732F+02	-7.170F-02	-2.301E-01	-3.469E-81	-3.333E-81	-3.377E-01
		4_1405-02	-1.7676-02	-2. 3075-02	-1 -KLRE-12	-5.077E-02	-7.577F-02	-7.299F-02	-7.103F-02
	-9.739E-03		-T+101E-03	- C + O 3 E - U Z	E E175-04	3.117E-04	1.8745-04	1.1405-04	5.753F-0E
	2.980E-03							3.8E-02	4.9E-02
01		1.0E-02	1.0E-02	8.8E-03	7.8E-03	1.1E-02	2.6E-02		
05	1.4E-03	1.6E-03	2.3E-03	8.5E-04	3.2E-03	3.7E-03	5.6E-03	5.1E-03	7.1E-03

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

				ANTIMON	IY. Z=51					
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV	
	-1.807E-02	1-077E-01		7.765E-01		1.883E+00			2.279E+00	
	9.661E-03			2.492E-02						
	-1.454E-04			-2.243E-05						
	5-209E-06			3.905E-08						
	9.675E-02			-8.529E-01						
C1	1.862E-02									
	1.311E-01	1.598E-01	-1.743E-01	-8.050E-01	-1.309E+00	-2.212E+00	-3.067E+00	-3.270E+00	-3.081E+00	
C3	-7.535E-02	-3.061E-02	-1.447E-01	-5.341E-01	-8.237E-01	-1.372E+00	-1.932E+00	-2.051E+00	-1.914E+00	
C4	8.933E-02	9.361E-02	-5.821E-02	-3.020E-01	-4.455E-01	-7.072E-01	-1.009E+00	-1.059E+00	-9.694E-01	
	-8.286E-02	2.260E-02	-1.375E-02	-1.370E-01	-1.936E-01	-2.803E-01	-4.017E-01	-4-135E-01	-3.640E-01	
	-8.620E-03			-3.803E-02						
B	7.744E-03			8.011E-04				1.006E-04	5.406E-05	
01	5.8E-03	9.2E-03	9.6E-03	1.2E-02	1.7E-02	1.8E-02	2.8E-02	3.8E-02	4.7E-02	
02	3.9E-04	2.1E-03	1.4E-03	6.5E-04	1.7E-03	3.5E-03	5.6E-03	5.0E-03	5.2E-03	
				TELLURI	[UM, Z=52					
	1 KE V	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV	
A 1	9.955E-02	1.298E-01	3.794E-01	6.279E-01	1.237E+00	1.897E+00	2.388E+00	2.474E+00	2.326E+00	
A2	5.257E-04	5.513E-03	1.150E-02	3.105E-02	4.465E-02	7.198E-02	1.094E-01	1.520E-01	1.889E-01	
A3	1.585E-04	8.794E-05	4.294E-05	-5.216E-05	-3.857E-05	-5.023E-05	-5.776E-05	-5.794E-05	-4.409E-05	
A4	8.157E-07	4.271E-08	6.323E-08	3.361E-07	3.596E-08	2.418E-08	1.934E-08	1.317E-08	5.735E-09	
	-7.300E-02									
	-1.876E-01									
	-2.918E-02			-5.395E-01						
	-1.744E-01									
	3.314E-02									
	-1.125E-01			-8.458E-02						
	-1.416E-02			-2.265E-02						
	7.097E-03			1.268E+03						
01	9.8E-03	9.4E-03	8.8E-03	7.6E-03	1.9E-02	2.2E-02	3.0E-02	3.8E-02	4.6E-02	
02	1.6E-03	2.4E-03	5.4E-04	1.4E-03	2.8E-03	3.4E-03	5.3E-03	4.8E-03	4.1E-03	
32	1000 00	2012 00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
				IODINE	Z=53					
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV	
A1	-1.858E-01	1.526E-01	3.958E-01	7.844E-01		1.890E+00			2.393E+00	
A2	3.511E-02	3.894E-03				6.977E-02	1.064E-01			
	-1.695E-03	1.374E-04						-5.370E-05		
A4	4.621E-05	4.271E-08	6.323E-08		4.468E-08		1.734E-08		5.417E-09	
CO				-8.733E-01						
G1				-1.142E+00						
	2.1268-01			-8.180E-01						
	-4.148E-02									
C4	9.218E-02			-2.983E-01						
	-9.616E-02			-1.320E-01						
	-5.512E-03			-3.579E-02						
В	1.177E-02			1.023E-03						
01	5-2E-03	1-1E-02	8.1E-02	1.1E-02	2.7E-02	2.7E-02	3.3E-02	4.0E-02	4.6E-02	
05	5.9E-04	2.2E-03	9.5E-04	5.3E-04	7.4E-03	2.9E-03	5.0E-03	4.7E-03	3.2E-03	
0.0	J. J. U.		,.,c	> * 500		C 7 7 00	7000 00	11.2 00	3426 43	
				XENON,	Z=54					
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV	
A1		4.937E-03			1.275E+00		2.456E+00			
	-1.013E-02	1.016E-02	7.881E-03		3.961E-02		1.035E-01	1.455E-01	1.742E-01	
	4.744E-04			-5.982E-05						
A4				8.043E-07		1.600E-08	1.522E-08	1.106E-08	2.676E-09	
	-2.990E-01			-5.942E-01						
				-7.772E-01						
	-2.444E-01			-5.135E-01						
	-3.055E-01			-3.306E-01						
	-4.217E-02	1.795E-01	-7.936E-02	-1.78 0E-01	-4.912E-01	-7.426E-01	-1.099E+00	-1.146E+00	-1.288E+00	
	-1.540E-01			-7.568E-02						
	-1.718E-02	2.234E-02	-4.597E-03	-1.957E-02	-5.626E-02	-7.006E-02	-1.017E-01	-9.934E-02	-1.057E-01	
В	9.027E-03	1.564E-03	2.333E-03	1.623E-03	4.254E-04	2.607E-04	1.660E-04	1.006E-04	4.482E-05	
01		2.3E-02	8.1E-03	7.0E-03	2.4E-02	2.9E-02	3.6E-02	4.2E-02	5.0E-02	
02	2.7E-03	3.5E-03	2.0E-03	1.7E-03	4.1E-03	3.1E-03	4.8E-03	4.8E-03	3.6E-03	
				CESTUM						
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV	
A1	-2.491E-01	9.243E-02	2.549E-01	6.026E-01	9.9276-01		2.005E+00		1.320E+00	
A2	4.865E-02	7.103E-03	1.316E-02	2.584E-02	4.699E-02	6.800E-02	1.148E-01	1.558E-01	2.222E-01	
A 3	-2.808E-03	-2.265E-05	-3.079E-05							
44			4.073E-08		6.586E-08			2.021E-08		
CO				-5.674E-01						
C1	2.203E-01									
	2.132E-01			-4.383E-01						
C3	-4.414E-02									
C4	7.905E-02			-1.286E-01						
	-1.030E-01			-4.728E-02						
	-3.904E-03	4.856E-03		-9.884E-03						
В	1.350E-02			6.194E-04					1.006E-04	
01		6.6E-03	1.0E-02	2.7E-02	3.7E-02	3.3E-02	5.6E-02	7.4E-02	1.2E-01	
05	6.9E-04	4.1E-04	5.4E-04	1.1E-03	4.9E-03	4.4E-03	4.8E-03	7.8E-03	2.3E-03	

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

				BARIUM					
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1	9.364E-02	1.171E-01	2.217E-01	5.880E-01	9.478E-01	1.443E+00	1.872€+00	2.102E+00	1.298E+00
A2 A3	1.832E+03	6.194E-03	1.402E-02	2.562E-02 -5.594E-05	4.748E-02	7.717E-02	1.165E-01	1.565E-01	2.211E-01
A4	1-072E-08	4.271E-08	7.602E-08	8.742E-08	8.162E-08	5.822E-08	4.134E-08	2.278E-08	4.748E-08
		-2.611E-02		-5.473E-01					
		-1.240E-01		-6.946E-01					
	-5.994E-02	8.237E-02		-4.107E-01					
	-1.877E-01			-2.438E-01					
C4	1.687E-02	7.244E-02		-1.161E-01					
C6	-1.336E+01	-1.051E-02		-4.077E-02 -7.896E-03					
8	2.1235-03	1.270E-03	8.903E-04	6-194E-04	4.102E-04	2.598E-04	1.660E-04	1.006E-04	1.006E-04
01	1.1E-02	8.9E+03	8.9E-03	2.0E-02	3.2E-02	4.6E-02	6.0E-02	7.8E-02	1.3E-01
02	1.1E-03	4.9E-04	8.9E-04	8.5E-04	4.5E-03	3.9E-03	3.7E-03	6.3E-03	5.8E-03
	-						****		
					NIUM, Z=64				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
	-1.450E-02	7.870E+02	1.895E-01	5.273E-01	1.094E+00	1.534E+00	1.940E+00	2.230E+00	2.611E+00
42	4.957E-03	4.949E-03	1.024E-02	1.807E-02	3.404E-02	6.253E-02	1.005E-01	1.401E-01	1.682E-01
A 3	8.157E-07	5.696E-08	6.394E-08	-3.287E-05	4.235E-08	3.598E-08	2.774E-08		
CO	8.546E-02			4.468E-08 -4.487E-01				1.615E-08	3.967E-09
C1				-5.569E-01					
C2	1.414E-01	8.579E-02		-2.359E-01					
C3	-6.427E-04	-1.133E-01	-5.700E-02	-1.374E-01	-7.482E-01	-1.102E+00	-1.482E+00	-1.783E+00	-2.211E+00
64	1.208E-01	9.597E-02	3.606E-02	-5.278E-02	-4.002E-01	-5.849E-01	-7.743E-01	-9.343E-01	-1.146E+00
Ç5	-6.182E-02	-5.524E-02	1.692E-02	-9.740E-03					
C6		-7.528E-03	7.245E-03					-8.089E-02	
В	4.429E-03	1.735E-03	1.078E-03	6.354E-04	4.102E-04	2.598E-04	1.660E-04	1.006E-04	4.482E-05
01	1.1E-02	6.1E-03	4.9E-03	5.9E-03	1.3E-02	2.5E-02	3-4E-02	5.0E-02	5.6E-02
02	6.3E-04	6.4E-04	2.5E-04	6.6E-04	2.1E-03	5.4E-03	4.0E-03	6.0E-03	7.8E-03
				HAFNIUN	1. 7=72				
	1KEV	ZKEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1	-6.900E-01	7.359E-02	1.345E-01	3.992E-01	7.886E-01	1.485E+00	2.019E+00	2.396E+00	2.524E+00
A2	4.999E-02	3.232E-03	7.858E-03	1.386E-02	3.019E-02	5.238E-02	8.594E-02	1.241E-01	1.614E-01
A 3	-1.501E-03	8.353E-07	-1.855E-05	-2.535E-05	-5.253E-05		-6.642E-05	-5.921E-05	-4.410E-05
A4	1.991E-05	4.271E-08	6.323E-08	3.900E-08	4-468E-08	2.838E-08	2.242E-08	1.196E-08	4.990E-09
CO		-1.921E-02		-2.592E-01					-3.508E+00
C1	1.288E+00	-1.409E-01		-3.262E-01					-4.244E+00
C2	1.108E+08	3.233E-02		-3.300E-02					
C4	4.991E-01	8.194E-02		-1.828E-02					
C5		-1.205E-01	1.436E-02	2.322E-03				-4.584E-01	
C6	2.035E-01	1.483E-02	5.776E-03	2.668E-03				-1.086E-01	
8	8.724E-03	2.190E-03	1.315E-03	7.364E-04	4.509E-04	2.672E-04	1.736E-04	1.006E-04	5.406E-05
01	4.6E-02	6.4E-03	4.5E-03	5.9E-03	2.6E-02	2.98-02	2.9E-02	3.9E-02	4.9E-02
02	2.8E-03	4.2E-04	1.7E-04	4.2E-04	3.4E-03	2.3E-03	5.8E-03	5.2E-03	6.2E-03
				TANTALI	JM. Z=73				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A 1		-2.788E-01			8.031E-01	1.149E+00	1.305E+00	1.154E+00	1.197E+00
A2	2.095E-02	2.537E-02	2.296E-02	2.978E-02	2.918E-02	6.074E-02	9.879E-02	1.481E-01	1.857E-01
A3				-1.548E-04		-9.573E-05	-9.859E-05	-1.045E-04	-7.479E-05
A4	8.814E-06	5.272E-06	1.310E-06	5.071E-07	6.333E-08	8.599E-08	4.673E-08	3.313E-08	1.354E-08
CO	4.932E-01	5.108E-01	5.132E-01		-7.724E-01			-1.104E+00	
C1	5.923E-01	5.361E-01	5.948E-01			_		-9.795E-01	
C2	5.568E-01 3.584E-01	5.731E-01 2.102E-01	6.859E-01 3.137E-01					-5.590E-01 -2.401E-01	
C4	2.998E-01	2.957E-01	3.243E-01					-6.209E-02	
C5		-2.394E-02	1.303E-01	2.231E-01		-9.875E-02			-8.056E-03
Č6	1.678E-01	5.891E-02	4.669E-02	7.647E-02		-2.081E-02		8.584E-03	4.830E-03
8	8.189E-03	4.882E-03	2.444E-03	1.329E-03	5.550E-04	3.918E-04	2.207E-04	1.383E-04	7.509E-05
01	7.7E-02	3.7E-02	2.6E-02	3.3E-02	1.3E-02	2.6E-02	3.4E-02	4.7E-02	6.4E-02
02	6.7E-03	5.3E-03	5.2E-03	3.6E-03	3.2E-03	8.1E-03	9.7E-03	8.2E-03	9.4E-03
				TUNCCTO	N 7-74				
	1KEV	2KEV	4KEV	8KEV	N, Z=74 16KEV	32KEV	64KEV	128KEV	256KEV
4 1	-2.513E-01		1.330E-01	3.660E-01		1.568E+00			2.628E+00
AZ	1.188E-02			1.366E-02					1.559E-01
	-1.297E-04			-1.992E-05					
A4	8.202E-07	4.271E-08	6-323E-08	4.073E-08	4.758E-08	4.023E-08	3.056E-08	1.039E-08	4.448E-09
CO				-2.155E-01					
C1				-2.785E-01					
CZ				2.574E-03 -6.175E-02					
C3	3.62!E-01			-1.472E-02					
C5		-1.257E-01		3.453E-03					
C6	1.879E-01	2.805E-02	3.298E-03					-1.237E-01	
В				8.496E-04		3.363E-04			5.406E-05
71	8.8E-02	5.7E-03	3.8E-03	4.6E-03	5.8E-03	1.8E-02	5.7E-02	4.0E-02	4.6E-02
05	6.8E-03	6.9E-04	2.1E-04	5.8E-04	5.8E-04	4.6E-03	7.1E-03	5.4E-03	5.0E-03

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

TIBBE II. I WANTED TO THE TO BIND FOR THE TO BE									
RHENIUM, Z=75									
1KEV 2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV		
A1 -2.244E-01 8.168E-02		3.426E-01	9.359E-01	1.544E+00	2.163E+00		2.697E+00		
A2 1.022E-02 2.491E-03			2.419E-02	4.867E-02	7.716E-02	1.192E-01	1.531E-01		
	-3.734E-06								
A4 6.267E-07 4.193E-08			3.630E-08	4.300E-08	1.496E-08		4.173E-09		
CO 4.401E-01 -3.601E-02	-1.275E-02			-1.984E+00	-2.953E+00	-3.365E+00	-3.788E+00		
C1 5.797E-01 -1.562E-01									
C2 5.932E-01 2.025E-02	9.24DE-02	3.154E-02	-7.795E-01	-1.912E+00	-2.950E+00	-3.360E+00	-3.702E+00		
C3 4.169E-01 -1.485E-01	-1.057E-01								
C4 3.477E-01 8.381E-02	8.393E-02	-7.293E-03	-2.195E-01	-6.608E-01	-1.039E+00	-1.209E+00	-1.306E+00		
C5 1.659E-01 -1.269E-01	3.979E-03	6.930E-03	-8.215E-02	-2.841E-01	-4.358E-01	-5.044E-01	-5.294E-01		
C6 1.846E-01 3.530E-02	1.666E-03	3.908E-03	-1.874E-02	-7.399E-02	-1.064E-01	-1.198E-01	-1.184E-01		
B 5.209E-03 3.093E-03	1.673E-03	9.555E-04	5.481E-04	3.577E-04	1.659E-04	1.083E-04	5.406E-05		
01 9.2E-02 5.8E-03	4.2E-03	4.1E-03	4.9E-03	1.7E-02	3.9E-02	3.8E-02	4.7E-02		
D2 7.6E-03 7.2E-84	2.7E-04	7.6E-04	5.0E-04	5.2E-03	5.6E-03	5.1E-03	4.4E-03		
		OSMIUM	, Z=76						
1KEV 2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV		
A1 -2.463E+00 8.443E-02	1.370E-01	3.413E-01	8.885E-01	1.586E+08	2.154E+00	2.480E+00	1.698E+00		
A2 2.378E-01 2.146E-03	7.034E-03	1.351E-02	2.454E-02	4.653E-02	7.621E-02	1.163E-01	1.821E-01		
A3 -1.121E-02 3.967E-05	2.501E-06	-1.355E-05	-2.760E-05	-4.752E-05	-4.959E-05	-5.237E-05	-9.143E-05		
A4 2.198E-04 4.271E-08	6.323E-08	4.468E-08	4.468E-08	3.812E-08	1.5566-08	1.120E-08	2.657E-08		
CO 3.314E+00 -4.032E-02	-2.159E-02	-1.881E-01	-9.415E-01	-2.059E+00	-2.943E+00	-3.456E+00	-2.085E+00		
C1 3.768E+00 -1.581E-01	-1.296E-01	-2.549E-01	-1.145E+00	-2.632E+00	-3.742E+00	-4.345E+00	-2.330E+00		
C2 2.808E+00 1.966E-02	8.028E-02	1.574E-02	-6.784E-01	-1.999E+00	-2.954E+00	-3-484E+00	-1.773E+00		
C3 1.789E+80 -1.438E-01	-1.150E-01	-7.328E-02	-3.860E-01	-1.279E+00	-1.925E+00	-2.304E+00	-1.120E+00		
	8.451E-02								
C5 4.358E-01 -1.263E+01	-8.041E-04	1.282E-03	-6.380E-02	-2.949E-01	-4.396E-01	-5.279E-01	-2.286E-01		
C6 2.677E-01 4.326E-02	-6.439E-05	1.950E-03	-1.349E-02	-7.640E-02	-1.080E-01	-1.257E-01	-4.865E-02		
	1.813E-03	9.893E-04	6.064E-04	3.610E-04	1.741E-04		1.006E-04		
D1 5.3E-02 6.2E-03	4.7E-03	4.2E-03	5.2E-03	1.7E-02	3.8E-02	4.0E-02	5.4E-02		
D2 6.3E-03 7.2E-04	3.8E-04	1.1E-03	4.2E-04	4.0E-03	5.9E-03	5.2E-03	5.1E-03		
		IRIDIU	1, Z=77						
1KEV 2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV		
A1 -3.137E+00 5.482E-02	1.407E-01	3.368E-01	8.839E-01	1.571E+00		2.526E+00	2.798E+00		
A2 3.150E-01 3.070E-03			2.333E-02		7.411E-02		1.479E-01		
A3 -1.583E-02 3.168E-05						-4.914E-05			
A4 3.304E-04 4.271E-08	5.323E-08	4.073E-08	3.304E-08	4.030E-08	1.430E-08		3.626E-09		
	-3.189E-02								
C1 4.589E+00 -8.567E-02									
C2 3.347E+00 8.347E-02						-3.598E+00			
C3 2.012E+00 -9.325E-02									
C4 1.134E+00 1.184E-01						-1.312E+00			
C5 4.996E-01 -1.100E-01									
	-1.937E-03					-1.314E-01			
		1.040E-03		3.827E-04		1.083E-04	5.406E-05		
D1 5.4E-02 9.5E-03	5.5E-03	4.6E-03	4.8E-03	1.6E-02	3.9E-02	4.3E-02	5.1E-02		
02 6.7E-03 1.3E+03	5.6E-04	1.4E-03	2.5E-04	3.7E-03	6.1E-03	5.3E-03	3.7E-03		

		PLATIN	JH, Z=78						
1KEV ZKEV	4 KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV		
A1 -3.097E+00 9.760E-02		3.286E-01	8.668E-01	1.565E+00	1.972E+00		2.894E+00		
A2 2.961E-01 6.071E-04	6.205E-03	1.319E-02		4.492E-02	7.980E-02	1.117E-01	1.441E-01		
A3 -1.402E-02 9.760E-05	3.022E-05	1.972E-06	-1.280E-05	-3.736E-05		-4.406E-05	-3.081E-05		
A4 2.802E-04 4.271E-08	6.323E-08	4.073E-08	2.121E-08	3.934E-08	3.056E-08	8.267E-09	2.993E-09		
CO 4.086E+00 -5.677E-02									
C1 4.630E+00 -1.679E-01	-1.707E-01	-2.598E-01	-1.096E+00	-2.597E+00	-3.357E+00	-4.451E+00	-5.138E+00		
C2 3.407E+00 1.650E-02									
C3 2.073E+00 -1.328E-01									
C4 1.173E+00 9.286E-02									
C5 5.271E-01 -1.214E-01									
	-4.160E-03								
	2.393E-03								
01 6.3E-02 9.6E-03	7.3E-03	6.0E-03	5.2E-03	1.5E-02	2.7E-02	4.9E-02	5.6E-02		
02 4.6E-03 7.8E-04	9.7E-04	1.8E-03	2.5E-04	3.3E-03	6.4E-03	3.0E-03	3.1E-03		
		60LD.							
1KEV ZKEV	4KEV	BKEV	16KEV	32KEV	64KEV	128KEV	256KEV		
A1 +5.385E+00 5.897E-02	1.343E-01	3.398E-01	7.796E-01	1.124E+00	9.878E-01	1.128E+00	1.183E+00		
	6.212E-03								
A3 -3.597E-02 -8.692E-06							-8.682E-05		
A4 8.881E-04 8.255E-09							2.526E-08		
CO 6.630E+00 -4.237E-04	-2.718E-02	-2.070E-01	-7.525E-01	-1.257E+00	-9.262E-01	-1.062E+00			
C1 7-136E+00 -9-454E-02									
C2 4.941E+00 7.299E-02									
C3 2.859E+00 -9.099E-02									
C4 1.513E+00 1.146E-01									
C5 6.552E-01 -1.099E-01									
C6 3.184E-01 7.235E-02		-2 6425-67	- 4 730C- 44	. A LECE- 60	1.236E-02	1.720E-02	4 7065 02		
B 2.317E-02 9.400E-04							1.386E-02		
	9.200E-04	8.800E-04	7.751E-04	6.142E-04	3.908E-04	1.998E-04	1.042E-04		
D1 5.4E-02 2.4E-02	9.200E-04 8.3E-03	8.800E-04 6.6E-03	7.751E-04 6.4E-03	6.142E-04 1.8E-02	3.908E-04 2.8E-02	1.998E-04 3.2E-02	1.042E-04 3.7E-02		
	9.200E-04	8.800E-04	7.751E-04	6.142E-04	3.908E-04	1.998E-04	1.042E-04		

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

			_	HERCURY					
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1 A2	-3.898E+00 3.892E-01	7.547E-02 1.123E-03	1.590E-01 5.536E-03	3.279E-81 1.257E-02	7.803E-81 2.344E-02	1.543E+00 4.313E-02	1.981E+00 7.693E-02	2.535E+00 1.082E-01	2.907E+00 1.409E-01
	-2.046E-02	8.919E-05	3.655E-05					-4-189E-05	
A4	4.572E-04	4.271E-08	6.323E-08	4.073E-08	4.468E-08	3.927E-08	2.988E-08	7.758E-09	2.903E-09
CO		-2.005E-02	-7.202E-02	-1.954E-01	-7.611E-01	-1.991E+00	-2.668E+00	-3.545E+00	
Ci	5.445E+00	-1.103E-01						-4.512E+00	
C2	3.926E+00	6.534E-02						-3.648E+00	
C3								-2.425E+00	
C4	1.308E+00	1.178E-01						-1.332E+00	
C5 C6	3.114E-01							-5.600E-01 -1.341E-01	
В	2.011E-02	4.713E-03		1.276E-03	7.4718-04	4.335E-04		1.059E-04	5.406E-05
01	1.4E-01	1.1E-02	7.6E-03	6.8E-03	5.7E-03	1.4E-02	2.7E-02	5.1E-02	5.9E-02
υS	5.8E-03	7.4E-04	1.4E-03	1.8E-03	6.5E-04	2.7E-03	6.6E-03	3.4E-03	3.2E-03
					JM, Z=81				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
	-2.374E+00	2.591E-02	1.295E-01 6.635E-03	3.101E-01	7.967E-01	1.508E+00 4.261E-02	2.197E+00 6.893E-02	2.552E+00 1.074E-01	2.848E+00 1.417E-01
A2	2.021E-01 -8.362E-03	3.678E-03 1.344E-05			2.131E-02			-4.590E-05	
A4	1.461E-04	4.271E-08		4.073E-08				9.599E-09	3.459E-09
ÇÜ	3.280E+00							-3.588E+00	
Ci								-4.600E+00	
CS	2.948E+00	1.471E-01						-3.744E+00	
C3	1.867E+00	-2.654E-02	-1.212E-01	-1.384E-01	-2.752E-01	-1.147E+00	-2.065E+00	-2.504E+00	-2.765E+00
C4	1.101E+00							-1.385E+00	
C5								-5.864E-01	
C6	2.953E-01							-1.412E-01	
В	1.483E-02			1.027E-03				1.083E-04	
01 02	1.8E-01 5.0E-03	1.4E-02 1.4E-03	9.4E-03 2.2E-03	8.2E-03 1.6E-03	5.2E-03 1.0E-03	1.5E-02 2.7E-03	3.6E-02 7.2E-03	4.6E-02 6.2E-03	5.5E-02 4.5E-03
υZ	9.UE-03	1.45-03	2.26-03	1.02-03	1.06-03	2.16-03	1.26-03	0.26-03	44 76-83
				LEAD. 7	Z=82				
	1KEV	2KEV	4KEV	BKEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1	-3.721E+00	7.182E-02	1.405E-01	3.221E-01	7.206E-01	1.501E+00	1.247E+00	2.535E+00	2.834E+00
AZ	3.543E-01	1.524E-03	6.050E-03		2.310E-02		1.009E-01	1.065E-01	1.408E-01
	-1.677E-02	4.871E-05						-4.677E-05	
A4	3.258E-04	4.271E-08		4.073E-08	4.468E-08	3.812E-08	2.155E-07	1.010E-08	3.619E-09
CO								-3.561E+08	
C1		-1.U4/E-U1	-1.09bt-01	-3.125E-U1	-7 757E-01	-C+401E+00	-1 332E4 00	-4.576E+00 -3.732E+00	-5.120EARR
C2 C3	4.102E+00							-2.499E+00	
C4	1.402E+00							-1.384E+00	
C5								-5.866E-01	
C6	3.146E-01							-1.413E-01	
В	1.699E-02			1.017E-03		3.796E-04	3.908E-04	1.083E-04	5.406E-05
D1	8.1E-02	1.7E-02	7.6E-03	7.0E-03	6.2E-03	1.4E-02	4.6E-02	4.5E-02	5.5E-02
02	7.3E-03	1.3E-03	1.9E-03	1.5E-03	1.2E-03	2.4E+03	4.4E-03	6.4E-03	4.7E-03
				RISMITA	1. Z=83				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A 1	-3.584E+00	2.547E-02	1.4878-01	3.330E-01	7.113E-01	1.460E+00	1.898E+00	2.516E+00	2.820E+00
A2	3.382E-01	3.229E-03	5.559E-03	1.154E-02	2.252E-02	4.174E-02	7.535E-02	1.057E-01	1.399E-01
A3	-1.582E-02	2.134E-05	1.136E-05	-6.686E-06	-2.387E-05	-4.388E-05	-6.402E-05	-4.769E-05	-3.443E-05
A4	3.035E-04	4.271E-08	6.323E-08	4.073E-08	4.468E-08	4.560E-08	3.560E-08	1.064E-08	3.791E-09
CO	4.756E+00	5.897E-02	-6.465E-02	-2.258E-01	-6.523E-01	-1.850E+00	-2.535E+00	-3.534E+00	-3.978E+00
C1	5-454E+00	4.592E-03	-1.90/E-01	-3.555E-01	-7.683E-01	-2.365E+UU	-3.261t+00	~4.556E+00	-0.131E+00
C2 C3		1.0/YE-U1	-1 - 487F-N4	-7. CC 3E -UZ	-1.70NF-N4	-1-1176700	-1.6555400	-3.722E+00 -2.495E+00	-2.781F+88
C4	1.381E+00							-1.382E+00	
C5								-5.869E-01	
C6	3.189E-01							-1-417E-01	
В	1.651E-02			1.006E-03	6.151E-04	3.886E-04	2.327E-04	1.083E-04	5.406E-05
01	2.2E-01	1.5E-02	6.4E-03	6.5E-03	4.8E-03	1.3E-02	2.7E-02	4.4E-02	5.5E-02
D2	7.1E-03	8.2E-04	1.6E-03	1.3E-03	1.3E-03	2.1E-03	6.8E-03	6.6E-03	4.8E-03
				DO: 0117	JH, Z=84				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
Δ1	-4. 368E+80		1.619E-01		7.095E-01			2.526E+00	2.830E+00
AZ	4.287E-01			1.087E-02	2.181E-02	4.234E-02		1.042E-01	1.385E-01
	-2.100E-02	3.069E-05	2.127E-05	-9.338E-07	-2.045E-05	-4.842E-05	-5.803E-05	-4.691E-05	-3.409E-05
A4	4.196E-04	4.271E-08	6.323E-08	4.073E-08	4.468E-08	5.872E-08	3.162E-08	1.065E-08	3.805E-09
CO	5.699E+00							-3.553E+00	
Ci	6.433E+00							-4.598E+00	
C2		1.023t.~U1	4.662E-04	-1.35UE-U1	-3.314E-01	-1-DICE-04	-4.704E+00	-3.766E+00 -2.529E+00	-2-822F+NA
C3 C4	2.827E+00 1.555E+00	44 77 CE -U 3	A 4075-05	-2.4926-U1	-8.585F-02	-5. 0A7F-01	-9.695F- 81	-1.404E+00	-1.570F+00
C5	7.121F-N1							-5.976E-01	
Ç6	3.346E-01	1.188E-01	-1.168E-02	-7.707E-03	-5.401E-03	-5.109E-02	-1.045E-01	-1.447E-01	-1.546E-01
В	1.756E-02					4.132E-04	2.258E-04	1.083E-04	5.406E-05
D1	4.4E-01	1.7E-02	5.5E-03	6.6E-03	4-2E-03	1.1E-02	2.6E-02	4.4E-02	5.6E-02
0.5	6.6E-03	1.3E-03	8.9E-04	1.2E-03	1.4E-03	1.8E-03	6.7E-03	6.7E-03	4.6E-03

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

				ASTATIN	E. Z=85				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1	-5.450E+00	2.515E-02	1.761E-01	3.598E-01	7.086E-01	1.401E+00	1.978E+00	2.548E+00	2.852E+00
A2	5.612E-01	2.735E-03	4.114E-03			4.156E-02		1.024E-01	
	-2.908E-02	4.080E-05	3.370E-05					-4.527E-05	
A4	6.125E-04			4.073E-08					3.739E-09
CO	6.968E+00			-2.835E-01					
C1	7.746E+00			-4.422E-01					
C2	5.509E+00			-1.725E-01					
C3	3.286E+00			-2.763E-01					
C4	1.765E+00			-9.735E-02					
C5				-3.604E-02					
C6	3.520E-01			-9.534E-03					
В	1.902E-02			1.095E-03		4.262E-04		1.083E-04	5.406E-05
D1	7.2E-01	2.1E-02	5.6E-03	7.3E-03	5.5E+03	9.4E-03	2.6E-02	4.6E-02	5.7E-02 4.2E-03
02	6.5E-03	1.6E-03	1.7E-04	1.2E-03	1.5E-03	1.5E-03	6.6E-03	6.9E-03	4.25-03
				RADON.	7=86				
	1KEV	SKEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
8.4	-6.852E+00	2.223E-02			7.079E-01		1.792E+00		2.880E+00
	7.409E-01	2.616E-03						1.004E-01	
	-4.065E-02		-2.322E-06					-4.314E-05	
A4	9.053E-04		6.532E-07					9.955E-09	
ÇÕ	8.577E+00			-3.089E-01					
Č1	9.379E+00			-4.806E-01					
CS	6.542E+00			-2.064E-01					
Ç3	3.832E+00			-3.041E-01					
C4	2.011E+00			-1.066E-01					
05				-4.043E-02					
C6	3.712E-01			-1.096E-02					
8	2.072E-02			1.157E-03					5.406E-05
01	8.5E-01	2.5E+02	4.8E-03	8.4E-03	7.4E-03	8.7E-03	2.2E-02	4.7E-02	5.9E-02
92	6.0E-03	1.9E-03	2.4E-04	1.2E-03	1.6E-03	1.2E-03	6.0E-03	7.1E-03	3.8E-03
92	0.05-03	1075-03	2.46-04	1.5F-02	1.01-03	1.55-03	0.05-03	1.15-03	3.05-03
				FRANCTI	JM, Z=87				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A 1		-4.241E-03				1.457E+00			1.346E+00
A2	1.788E-01	4.056E-03		1.113E-02			6.561E-02	1.097E-01	1.782E-01
				-1.853E-05					
A4	8.651E-05	3.117E-08		2.668E-08					4.479E-08
CO	3.312E+00	1.096E-01		-1.873E-01					
Ci	4.007E+00			-3.105E-01					
CS	3.128E+00	2.252E-01		-5.789E-02					
C3	2.032E+00			-1.973E-01					
C4	1.202E+00			-3.188E-02					
C5				-2.630E-03					
C6	2.964E-01	1.437E-01		2.156E-03					
8	1.061E-02	1.371E-03	1.086E-03					1.147E-04	
01	3.3E-01	2.4E-02	2.4E-02	2.2E-02	3.1E-02	3.6E-02	4.9E-02	6.8E-02	1.1E-01
02	3.7E-03	1.7E-03	1.2E-03	2.2E-03	3.6E-03	2.4E-03	7.1E-03	8.4E-03	2.3E-03
0-	34.2 43	20.2 00		1112 40	0.0C 00	2012 00	1016 00	30112 00	2002 00
				RADIUM	Z=88				
	1KE V	ZKEV	4KEV	BKEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1	-1.608E+00	-3.783E-03	1.385E-01	2.943E-01	6.038E-01	1.394E+00	1.980E+00	1.574E+00	1.529E+00
A2	1.107E-01	4.046E-03	5.071E-03				6.662E-02	1.271E-01	1.707E-01
A3	-3.306E-03	-1.288E-05	-7.552E-06	-2.060E-05	-3.192E-05	-3.996E-05			-1.031E-04
A4	3.832E-05		1.271E-08				2.228E-08		3.227E-08
CO	2.415E+00	1.090E-01	-5.924E-02	-1.844E-01	-4.870E-01		-2.697E+00	-1.936E+00	-1.769E+00
C1	3.013E+00	9.043E-02	-1.792E-01	-3.099E-01	-5.500E-01	-2.188E+00	-3.537E+00	-2.418E+00	-2.052E+00
CS	2.439E+00			-5.900E-02					
C3	1.638E+00			-2.011E-01					
C4	1.006E+00			-2.653E-02					
C5	5.094E-01	-2.671E-02	-6.624E-02	-4.781E-04	-6.322E-03	-1.774E-01	-4.156E-01	-2.687E-01	-2.508E-01
C6	2.763E-01	1.496E-01	-8.828E-03	2.746E-03	4.819E-04	-4.247E-02	-1.057E-01	-6.034E-02	-5.699E-02
8	8.373E-03	1.532E-03	7.610E-04	6.194E-04	4.102E-04	2.598E-04	1.660E-04	1.660E-04	1.006E-04
01	2.7E-01	2.7E-02	5.4E-03	1.7E-02	2.5E-02	3.8E-82	5.2E-02	9.9E-02	1.1E-01
D2	1.1E-02	2.1E-03	5.5E-04	1.6E-03	3.5E+03	2.2E-03	6.4E-03	1.9E-03	1.4E-03
					JM, Z=89				
	1KE V	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
	-2.310E+00		1.438E-01		6.203E-01			1.553E+00	1.502E+00
	1.784E-01			9.338E-03					1.703E-01
				-1.022E-05					
A4	8.490E-05			1.372E-08					3.338E-08
CB	3.320E+00			-2.822E-01					
C1	4-024E+00			-4.504E-01					
C2	3.142E+00			-1.826E-01					
Ç3	2.042E+00			-2.937E-01					
C4	1.205E+00			-7.619E-02					
C5				-2.612E-02					
Ce	2-891E-01			-6.424E-03					
В	1.015E-02			5.269E-04					1.006E-04
01	3.5E-01	3.2E-02	4.2E-03	5.5E-03	1.6E-02	2.8E-02	4.4E-02	9.4E-02	1.1E-01
02	4.4E-03	2.8E-03	5.1E-04	1.0E-03	3.1E-03	2.0E-03	6.3E-03	2.0E-03	1.6E-03

TABLE II. Parameters for Twelve-Parameter Fits to Differential Cross Sections

					1, Z±90				
A 1	1KEV	2KEV -3.350E-03	4KEV 1.149E-01	8KEV 3.065E-01	16KEV 5.754E-01	32KEV 1.418E+00	64KEV 2.053E+00	128KEV 1.558E+00	256KEV 1.478E+00
A2	2.852E-01	3.796E-03	6.090E-03	1.074E-02	2.137E-02	3.398E-02	6.300E-02	1.253E-01	1.698E-01
				-1.545E-05					
44	1.752E-04	4.271E-08	6.331E-08	4.069E-08	4.405E-08	2.254E-08	2.071E-08	6.146E-08	3.431E-08
CO	4.630E+00			-2.162E-01					
C1 C2	5.463E+00 4.126E+00	2.359E-01		-3.600E-01 -1.050E-01					
C3	2.605E+00			-2.389E-01					
C4	1.479E+00	2.058E-01		-3.389E-02					
C5				-5.804E-03					
C6	3.156E-01		-3.805E-03					-6.001E-02	
8 01	1.210E-02 3.9E-01	1.806E-03 3.5E-02	1.226E-03 6.8E-03	7.105E-04 8.4E-03	4.621E-04 1.5E-02	2.598E-04 2.0E-02	1.660E-04 3.8E-02	1.660E-04 8.7E-02	1.006E-04 1.0E-01
92	5.3E-03	3.5E-03	4.8E+04	8.9E-04	3.0E-03	1.9E-03	6.1E-03	2.1E-03	1.5E-03
	,,,,,		1102 01	00,00	3432 33	2002	30 20 3 5	2012 00	1070 00
					TINIUM, Z=9:				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
AZ	-3.624E+00 3.141E-01	1.069E-02 3.168E-03	1.144E-01 6.104E-03	2.908E-01 1.099E-02	6.131E-01 1.964E-02	1.386E+00 3.369E-02	2.060E+00 6.173E-02	1.620E+00 1.222E-01	1.546E+00 1.668E-01
				-1.813E-05					
A4	2.019E-04	1.643E-08	6.199E-08	4.070E-08	2.643E-08	2.069E-08	1.893E-08	5.711E-08	3.241E-08
CO	4.969E+00	8.733E-02	-2.712E-02	-1.923E-01	-5.248E-01		-2.850E+00	-2.031E+00	-1.812E+00
C1	5.830E+00			-3.274E-01					
C2	4.370E+00	2.079E-01		-7.593E-02					
C3	2.741E+00			-2.180E-01 -1.148E-02					
C4 C5	1.542E+00 7.243E-01	1.937E-01 -6.053E-03						-2.935E-01	
C6	3.167E-01		-3.695E-03					-6.586E-02	
B	1.269E-02	1.554E-03	1.224E-03		4.176E-04	2.598E-04	1.6605-04		1.006E-04
01	4.7E-01	4.0E-02	1.0E-02	1.3E-02	1.4E-02	2.2E-02	3.9E-02	8.4E-02	1.0E-01
02	6.6E-03	3.5E-03	1.4E-03	1.3E-03	3.3E-03	2.0E-03	6.1E-03	2.8E-03	1.7E-03
				(ADANTII)	1, Z≃92				
	1KEV	2KEV	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1	-4.231E+00	4.582E-02	1.465E-01	3.527E-01		1.459E+00	2.071E+00	2.166E+00	1.326E+00
A2	3.814E-01	2.062E-03	4.574E-03	8.601E-03	1.697E-02	3.076E-02	6.056E-02	1.043E-01	1.729E-01
	-1.634E-02			-7.921E-06					
A4		-2.755E-09	7.835E-09	7.861E-09		1.147E-08	1.812E-08	1.979E-08	4.855E-08
C 0	5.708E+00			-3.025E-01 -4.827E-01					
CS	4.889E+00	1.288E-01		-2.104E-01					
C3	3.026E+00			-3.160E-01					
C4	1.673E+00	1.560E-01		-6.346E-02					
C5	7.729E-01			-2.2858-02					
C6	3-250E-01			-6.220E-03					
В	1.370E-02	1.570E-03	8.577E-04			2.247E-04	1.675E-04	1.176E-04	1.1768-04
D1 D2	5.6E-01 8.9E-03	5.5E-02 7.0E-03	4.9E-03 8.5E-04	5.9E-03 9.0E-04	1.1E-02 2.8E-03	1.6E-02 1.6E-03	3.8E-02 5.9E-03	5.7E-02 8.4E-03	1.1E-01 3.7E-03
-	V4 /2 V4		****	*****					
		_			[UM, Z=93				
	1KEV	SKEA	4KEV	8KEV	16KEV	32KEV	64KEV	128KEV	256KEV
A1	-3.883E+00 3.511E-01	3.793E-03	1.131E-01 5.935E-03	3.731E-01 9.284E-03	6.522E-01 1.757E-02	1.196E+00 3.702E-02	2.097E+00 5.897E-02	1.694E+00 1.179E-01	1.603E+00 1.628E-01
				-1.122E-05					
A4	2.505E-04	4.172E-08	6.323E-08	4.027E-08	1.295E-08	3.812E-08	1.637E-08	5.271E-08	3.078E-08
CO	5.235E+00			-3.550E-01					
C1	6.060E+00			-5.720E-01					
C2	4.468E+00			-3.006E-01					
C3 C4	2.764E+00 1.519E+00			-3.917E-01 -1.084E-01					
C5	7.026E-01			-5.022E-02					
C6	2.830E-01			-1.746E-02					
В	1.375E-02	1.843E-03	1.293E-03	7.875E-04	3.623E-04		1.660E-04	1.660E-04	1.006E-04
D1	9.2E-01	4.8E-02	1.25-05	2.1E-02	1.0E-02	3.0E-02	3.6E-02	7.7E-02	9.5E-02
02	8.0E-03	3.9E-03	1.9E-03	3.7E-03	3.2E-03	2.8E-03	5.7E-03	4.1E-03	3.1E-03
				PLUTON	[UM • Z=94				
	1KEV	2KEV	4KEV	BKEV	16KEV	32KEV	64KEV	128KEV	256KEV
				2.759E-01		1.245E+00			1.671E+00
	3.302E-01			1.033E-02					
A3 A4	-1.389E-02 2.260E-04	3-495E-08	-1+073E=05	-1.649E-05 2.510E-08	-1.020C-02	2.4575-02	1.4975-08	4_810F=09	2.875E-08
CO	5.042E+00			-1.713E-01					
C1	5.864E+00			-2.938E-01					
C2	4.347E+00	2.746E-01	9.559E-02	-4.028E-02	-3.694E-01	-1.175E+00	-3.057E+00	-2.463E+00	-2.221E+00
C3	2.700E+00			-1.870E-01					
C4	1.498E+00			3.759E-02					
C5 C6	6.907E-01 2.898E-01	2.844E-U2 1.804E-01	5.701E-03	2.502E-02 9.902E-03				-8.268E-02	
8	1.367E-02			6.628E-04					1.006E-04
n1	1.0E+00	6.5E-02	1.7E-02	1.4E-02	1.1E-02	3.1E-02	3.8E-02	7.6E-02	9.3E-02
0.5	8.7E-03	6.1E-03	2.7E-03	2.5E-03	3.4E-03	8-1E-03	5.5E-03	5.3E-03	4.5E-03